UNIVERSITY OF ILORIN

ACADEMIC PROGRAMMES
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FACULTY ENTRIES

Faculty of Agriculture
Faculty of Arts
Faculty of Basic Medical Sciences (College of Health Sciences)
Faculty of Clinical Sciences (College of Health Sciences)
Faculty of Communication and Information Sciences
Faculty of Education
Faculty of Engineering and Technology
Faculty of Environmental Sciences
Faculty of Law
Faculty of Life Sciences
Faculty of Management Sciences
Faculty of Pharmaceutical Sciences
Faculty of Physical Sciences
Faculty of Social Sciences
Faculty of Veterinary Medicine

UNIT ENTRIES

General Studies Division
Technical and Entrepreneurial Studies

FOREWORD
The 7th edition (2014-2018) of the University of Ilorin Academic Programme as approved by Senate has been painstakingly reviewed and updated to reflect current status of her programmes, which have witnessed rapid growth and development in recent times.

The Academic Programme presents all available courses in the 15 Faculties, including their codes, status, and credit loads. Other information include lists of Principal Officers and staff of various departments, admission requirements, rules and regulations guiding registration, examinations as well as graduation requirements for award of first degrees.

This document was prepared by the Senate Review Committee on Academic Programme charged to do a comprehensive update of the academic programme for 2014-2018. This, the committee has tried to do, taking cognisance of current NUC benchmark as submitted by the various departments. Any observations or suggestions should be directed to the Deputy Registrar, Academic Support Services.

On behalf of the members of the Committee, I thank all Deans and Heads of Departments for their cooperation and the Chairman and members of Senate for the opportunity to serve the University in this capacity.

Prof. (Mrs.) N.Y.S. Ijaiya
Deputy Vice-Chancellor (Academic)
and Committee Chairman.
PRINCIPAL OFFICERS OF THE UNIVERSITY

Vice-Chancellor
Professor AbdulGaniyu Ambali (OON)
DVM (ABU); M.V.Sc., Ph.D. (Liverpool); FCVSN (Abuja)

Deputy Vice-Chancellor (Academic)
Professor (Mrs.) Nike Y. S. Ijaiya
B.A. (Ed.) (ABU); M.Ed., Ph.D. (Cardiff)

Deputy Vice-Chancellor (Management Services)
Professor A. Y. Abdulkareem
B.Ed. (Ibadan); M.Ed., Ph.D. (Ilorin)

Deputy Vice-Chancellor (Research Technology and Innovation)
Professor Gabriel A. Olatunji
B.Sc. (OAU); Dip. Chem., Dr.rer.Nat. Ph.D. (Berlin)

Registrar
Mr. Emmanuel D. Obafemi
B.A. (Ibadan); Cert. Public Information (Kaduna); FICA, FIHNR, MAUA (UK); MNIPR

Bursar
Mr. Abiodun S. Yusuf
B.Sc. (ABU); FCA, ACTI, FBR, MCIB

University Librarian
Dr. Joseph O. Omoniyi
B.A., M.A., PGDE (Ilorin); MLS (Ibadan); M.Ed., MPA, Ph.D. (Ilorin)
DEFINITIONS

**Compulsory Course**  
A course within the student’s discipline that must be taken and passed. Marks scored will count towards graduation and student cannot graduate without passing it.

**Required Course**  
A course within and/or outside the student’s discipline that is, a subsidiary course that must be taken and passed.

**Elective Course**  
A course within and/or outside a student’s discipline which may be selected for the purpose of fulfilling the minimum requirements for the award of the Degree. However, in order to graduate, a student must pass enough elective courses (where applicable) to meet the minimum number of credits required for the award of the degree.

**Concurrent Course**  
One that must be taken along with another stipulated one within the same session.

**Prerequisite Course**  
One that must be taken and passed before another stipulated course can be registered for.

**Pass**  
Satisfactorily completing a course by scoring not less than 40% or 50% (as applicable), in the overall assessment of that course. This is necessary in order to obtain or earn the credit allotted to the course.

**He/him/his/himself**  
As used in this book refer to both male and female as appropriate.
ABBREVIATIONS

General

C  - Compulsory
CC - Concurrent
E  - Elective
H  - Hours
P  - Practical
PR - Prerequisite
R  - Required
T  - Theory

Course Codes and Acronyms

ABE - Agricultural and Biosystems Engineering
ACC - Accounting
ACD - Agricultural Extension and Community Development
AED - Arts Education
AEF - Agricultural Economics and Farm Management
AES - Adult Education Studies
AFS - Food Science
AHE - Home Economics
ANA - Anatomy
ANP - Animal Production
<table>
<thead>
<tr>
<th>Code</th>
<th>Program</th>
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<tbody>
<tr>
<td>ARA</td>
<td>Arabic</td>
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<tr>
<td>ARC</td>
<td>Architecture</td>
</tr>
<tr>
<td>ASE</td>
<td>Arts and Social Science Education</td>
</tr>
<tr>
<td>AQF</td>
<td>Aquaculture and Fisheries</td>
</tr>
<tr>
<td>AXR</td>
<td>Agricultural Extension and Rural Development</td>
</tr>
<tr>
<td>BCH</td>
<td>Biochemistry</td>
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<tr>
<td>BED</td>
<td>Business Education</td>
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<td>BEM</td>
<td>Business Education (Marketing Option)</td>
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<tr>
<td>BME</td>
<td>Biomedical Engineering</td>
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<td>BMS</td>
<td>Basic Medical Science</td>
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<td>BUL</td>
<td>Business Law</td>
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<td>BUS</td>
<td>Business Administration</td>
</tr>
<tr>
<td>CED</td>
<td>Counsellor Education</td>
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<td>CHE</td>
<td>Chemical Engineering</td>
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<td>CHM</td>
<td>Chemistry</td>
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<tr>
<td>CIS</td>
<td>Communication and Information Science</td>
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<td>CPE</td>
<td>Computer Engineering</td>
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<td>CPT</td>
<td>Crop Protection</td>
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<td>CSC</td>
<td>Computer Science</td>
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<td>CVE</td>
<td>Civil Engineering</td>
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<tr>
<td>ECN</td>
<td>Economics</td>
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<td>EDT</td>
<td>Educational Technology</td>
</tr>
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<td>EDU</td>
<td>Education</td>
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<tr>
<td>ELE</td>
<td>Electrical Engineering</td>
</tr>
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<td>EMA</td>
<td>Educational Management</td>
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<tr>
<td>ENG</td>
<td>English</td>
</tr>
<tr>
<td>ESM</td>
<td>Estate Management</td>
</tr>
<tr>
<td>FBE</td>
<td>Food and Bioprocess Engineering</td>
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<td>FIN</td>
<td>Finance</td>
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<td>FRE</td>
<td>French</td>
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<tr>
<td>FRM</td>
<td>Forest Resources Management</td>
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<tr>
<td>FVM</td>
<td>Faculty of Veterinary Medicine</td>
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<tr>
<td>GET</td>
<td>General Engineering and Technology</td>
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<tr>
<td>GEM</td>
<td>Geology and Mineral Sciences</td>
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<tr>
<td>GNS</td>
<td>General Studies</td>
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<tr>
<td>GPH</td>
<td>Geophysics</td>
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<tr>
<td>GPY</td>
<td>Geography and Environmental Management</td>
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<tr>
<td>GRM</td>
<td>German</td>
</tr>
<tr>
<td>GSE</td>
<td>Graduate Self Employment</td>
</tr>
<tr>
<td>HED</td>
<td>Health Education</td>
</tr>
</tbody>
</table>
HIM    - Health Information Management
HIS    - History and International Studies
HKE    - Human Kinetics Education
ICH    - Industrial Chemistry
ICS    - Information and Communication Science
IRP    - Industrial Relations and Personnel Management
ISL    - Islamic Law
JIL    - Jurisprudence and International Law
LIN    - Linguistics
LIS    - Library and Information Science
LIY    - Yoruba
MAC    - Mass Communication
MAT    - Mathematics
MCB    - Microbiology
MEE    - Mechanical Engineering
MKT    - Marketing
MME    - Materials and Metallurgical Engineering
NSC    - Nursing Science
OPT    - Optometry and Vision Science
PAD    - Public Administration
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<tr>
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<tr>
<td>PCG</td>
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<td>PCH</td>
<td>Pharmaceutical and Medicinal Chemistry</td>
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<tr>
<td>PCL</td>
<td>Pharmacology and Toxicology</td>
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<tr>
<td>PCP</td>
<td>Clinical Pharmacy and Pharmacy Practice</td>
</tr>
<tr>
<td>PCT</td>
<td>Pharmaceutics and Industrial Pharmacy</td>
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<td>PES</td>
<td>Primary Education Studies</td>
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<td>PFA</td>
<td>Performing Arts</td>
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<td>PHM</td>
<td>Pharmacology</td>
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<td>Physiology</td>
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<td>Physiotherapy</td>
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<td>Physics</td>
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<tr>
<td>PLB</td>
<td>Plant Biology</td>
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<tr>
<td>PMB</td>
<td>Pharmaceutical Microbiology and Biotechnology</td>
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<td>PPL</td>
<td>Private and Property Law</td>
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<td>PUL</td>
<td>Public Law</td>
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<td>QTS</td>
<td>Quantity Surveying</td>
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<td>Comparative Religious Studies</td>
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<td>Christian Studies</td>
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<td>RIS</td>
<td>Islamic Studies</td>
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<td>Code</td>
<td>Description</td>
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<tr>
<td>SED</td>
<td>Science Education</td>
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<td>SIWES</td>
<td>Students Industrial Work Experience Scheme</td>
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<td>SOC</td>
<td>Sociology</td>
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<td>SSE</td>
<td>Social Sciences Education</td>
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<td>STA</td>
<td>Statistics</td>
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<td>SVG</td>
<td>Surveying and Geoinformatics</td>
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<td>TCS</td>
<td>Telecommunication Science</td>
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<td>TED</td>
<td>Technology Education</td>
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<td>URP</td>
<td>Urban and Regional Planning</td>
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<tr>
<td>VAN</td>
<td>Veterinary Anatomy</td>
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<tr>
<td>VMB</td>
<td>Veterinary Microbiology</td>
</tr>
<tr>
<td>VMD</td>
<td>Veterinary Medicine</td>
</tr>
<tr>
<td>VPA</td>
<td>Veterinary Pathology</td>
</tr>
<tr>
<td>VPB</td>
<td>Veterinary Physiology and Biochemistry</td>
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<tr>
<td>VPE</td>
<td>Veterinary Parasitology and Entomology</td>
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<td>VPH</td>
<td>Veterinary Public Health &amp; Preventive Medicine</td>
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<tr>
<td>VPT</td>
<td>Veterinary Pharmacology and Toxicology</td>
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<tr>
<td>VSR</td>
<td>Veterinary Surgery and Radiology</td>
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<tr>
<td>VTP</td>
<td>Theriogenology and Production</td>
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<tr>
<td>WEE</td>
<td>Water Resources and Environmental Engineering</td>
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</table>
GENERAL INFORMATION ABOUT THE UNIVERSITY

HISTORICAL NOTE

The University of Ilorin is located in the ancient city of Ilorin, about 300 kilometers from Lagos and 500 kilometers from Abuja, the Federal Capital City. Ilorin, the Capital of Kwara State, is strategically located at the geographical and cultural confluence of the North and South and can be described as a gateway city.

The University of Ilorin is one of the institutions of higher learning established by a decree of the Federal Military Government in August, 1975. This step was taken to provide more opportunities for Nigerians aspiring to acquire University education and to generate relevant high level manpower for its developing economy.

The University commenced as an affiliated College of the University of Ibadan in September, 1975 at the Mini Campus. Following an entrance examination, 200 foundation students were admitted into residence on Saturday, 23rd October 1976 and academic activities commenced on Monday, 25th October 1976 with the three foundation Faculties of Arts, Education and Science. On 1st October 1977, the University College, Ilorin attained a full autonomous status of a University and has since then been developing by leaps and bounds. The student population of 200 in 1976 had increased to 32,684 in the 2014/2015 academic session. Up till January 1982, the University carried out its academic programmes, involving the Faculties of Arts, Science, Education, Engineering and Technology, Business and Social Sciences and the Pre-Clinical aspect of the Health Sciences on the Mini Campus. The completion of the Faculty blocks for Natural Sciences and Engineering as well as Eight blocks of students' hostels by December 1981, made it possible for the actual movement of over 1,000 science-oriented students to the Main Campus to pursue their various academic programmes.

The Main Campus currently houses the Faculties of Agriculture, Arts, Communication & Information Sciences,
Education, Engineering & Technology, Environmental Sciences, Law, Life Sciences, Management Sciences, Pharmaceutical Sciences, Physical Sciences, Social Sciences and Veterinary Medicine. While the College of Health Sciences comprising the Faculties of Basic Medical Sciences and Clinical Sciences has since been relocated to its permanent site in the University of Ilorin Teaching Hospital, while the Institute of Education remains in the Mini Campus. There are 118 Academic Departments within the 15 Faculties.

The duration of undergraduate degree programmes ranges from three to six years, depending on entry qualifications and discipline. The University started with the traditional 'Three Term System,' but later changed to the "Two Semester System" called Harmattan and Rain Semesters with effect from 1979/80 session. Each semester comprises one-half of an academic year as determined by Senate. Also, instruction in the various Faculties, with the exception of the MB;BS, DVM, and B.Pharm. programmes, is by the course system and courses are quantified into credits.
ADMISSION REQUIREMENTS

1. **Admission by Entrance Examination – UTME.**

   The Entrance Examination is conducted by JAMB. In addition to attaining the required standard in entrance examination, candidates must satisfy the general University as well as specific Faculty requirements.

   For the general requirement, candidates must obtain at least a credit pass in five subjects at S.S.C.E. O’Level or approved equivalent, including English Language and Mathematics at not more than two sittings (See tables for other faculty requirements).

2. **Admission by Direct Entry**

   **Candidates must possess one of the following qualifications:**

   (i) A minimum of two passes at the Principal or Advanced Level. In addition, candidates must also obtain at least a credit pass in five subjects at S.S.C.E. or approved equivalent, including English Language and Mathematics at not more than two sittings (See tables for other faculty requirements).

   (ii) A minimum of two passes in recognized NCE subjects. Education is accepted as a second ‘A’ Level subject for those taking courses in Education. In addition, candidates must also obtain at least a credit pass in five subjects at S.S.C.E. or approved equivalent, including English Language and Mathematics at not more than two sittings. (See tables for other faculty requirements).
(iii) Candidates who successfully pass the final examination of the following Institutions shall also be considered eligible for admission: The International Baccalaureate obtained from an accredited Institution with relevant gradings; the University of Ilorin Diploma, National Diploma from Monotechnics/Polytechnics or Colleges of Technology, not below Upper Credit, and applicable only to some faculties (See table on Special Faculty requirements); and the Defence Academy Certificate as moderated by a recognized University. In addition, candidates must also obtain at least a credit pass in five subjects at S.S.C.E. or approved equivalent, including English Language and Mathematics at not more than two sittings

Other conditions to note:

(i) No subject may be counted at both O’ and A’ Levels.

(ii) General Paper at H.S.C. or in any other examination will not be accepted as a substitute for English language.

(iii) A credit pass in English Language and Mathematics of the IJMB at the O’ Level is acceptable as equivalent to SSCE/GCE O’ Level for admission purpose.
<table>
<thead>
<tr>
<th>COURSE</th>
<th>REQUIREMENTS</th>
<th>UTME SUBJECTS</th>
<th>SPECIAL CONSIDERATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANATOMY</td>
<td>At least two A’ level passes chosen from Biology, Chemistry and Physics in addition to UTME requirement.</td>
<td>Five O’level credit passes in English Language, Mathematics, Biology, Chemistry and Physics.</td>
<td>English Language, Biology, Chemistry and Physics</td>
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</table>

COLLEGE OF HEALTH SCIENCES
<table>
<thead>
<tr>
<th>COURSE</th>
<th>REQUIREMENTS</th>
<th>UTME SUBJECTS</th>
<th>SPECIAL CONSIDERATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSIOLOGY</td>
<td>At least two A’ Level passes chosen from Biology Chemistry and Physics in addition to UTME requirement.</td>
<td>Five O’Level Credit passes in English Language, Mathematics, Biology, Chemistry and Physics</td>
<td>(WAIVER) REMARKS</td>
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<tr>
<td>MEDICINE AND SURGERY</td>
<td>DIRECT ENTRY:</td>
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<tr>
<td>(i) A’ Level passes in Physics, Chemistry and Biology.</td>
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<tr>
<td>(ii) B.Sc. (Second Class Upper Honours) in relevant fields</td>
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<tr>
<td>Five O’Level Credit passes in English Language, Mathematics, Physics, Chemistry and Biology.</td>
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<tr>
<td>English Language, Physics, Chemistry and Biology.</td>
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</tbody>
</table>

(i) UNILORIN accepts minimum aggregate of 13 Points.

(ii) UNILORIN accepts B.Sc. (Second Class Honours, Upper Division) in Anatomy, Biochemistry, Microbiology, Physiology, Zoology.

**UTME:**

(i) UNILORIN requires five O’Level credit passes at only one sitting.

(ii) UNILORIN requires a Minimum UTME Score as determined by the University Senate.
**FACULTY OF AGRICULTURE**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>REQUIREMENTS</th>
<th>UTME SPECIAL CONSIDERATION</th>
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</thead>
<tbody>
<tr>
<td>NURSING</td>
<td>(i) Registered Nurse (RN) Certificate in addition to UTME requirements.</td>
<td>Five ‘O’ Level Credits Pass in English Language, Mathematics, Physics, Chemistry and Biology</td>
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<tr>
<td></td>
<td>(ii) At least two ‘A’ Level passes chosen from Biology, Chemistry and Physics in addition to UTME requirements.</td>
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<tr>
<td>DIRECT ENTRY</td>
<td>UTME</td>
<td>SUBJECTS</td>
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<tr>
<td>AGRICULTURE</td>
<td>At least two A’ level passes in Chemistry and one from Biology/ Botany/Zoology/Agric. Science, Economics, Physics, Geography and Geology/Mathematics (Pure &amp; Applied)</td>
<td>Five ‘O’ level credit passes to include English language, Mathematics, Biology/Agric. Science, Chemistry and any one of Physics, Geography, Economics, Animal Husbandry, Crop Husbandry and Horticulture</td>
</tr>
<tr>
<td>AGRICULTURAL EXTENSION AND COMMUNITY DEVELOPMENT</td>
<td>(i) At least 5 O-level WAEC, SSCE, GCE Credits at not more than two sittings in the following subjects: English Language, Mathematics, and any other three from Biology or Agriculture, Chemistry, Physics, Geography, Economics, Food and Nutrition and Home Management.</td>
<td>(ii) A Higher National Diploma (HND or equivalent) in Agriculture or related field of study with a minimum of lower credit from a recognized institution in Animal Management.</td>
</tr>
<tr>
<td>AQUACULTURE AND FISHERIES</td>
<td>(i) A’ level passes in Chemistry, Biology and at least a pass in any of Physics, Geography and Economics.</td>
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<tr>
<td></td>
<td>(ii) OND/ND in Fisheries, Agriculture or related disciplines with at least lower credit grade plus five 'O' level credits in English Language, Mathematics, Chemistry, Biology, Fisheries or Agric. Science and any other from Physics, Geography and Economics.</td>
<td></td>
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<td></td>
<td>(iii) HND with Lower Credit Pass in Fisheries, Agriculture or related discipline from NBTE Accredited Institutions.</td>
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<td></td>
<td>5 O’level credit passes at not more than two sittings including English Language, Mathematics, Chemistry, Biology, Fisheries or Agric. Science and any other from Physics, Geography and Economics.</td>
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<td></td>
<td>English Language, Mathematics, Chemistry and one of Biology and Agricultural Science.</td>
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<tr>
<td></td>
<td>UNILORIN may accept HND with lower credit pass in Fisheries, Agriculture or related discipline from NBTE Accredited Institutions.</td>
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</tr>
<tr>
<td>HOME ECONOMICS</td>
<td>GCE ‘A’ Level or equivalent in Chemistry plus at least one of the following subjects; Biology/ Botany/Zoology/Agric. Science/Economics/ Mathematics plus UTME entry requirements. OND in ANY of the following: Catering/Hotel Management/ Food Science/Consumer Science/Hospitality and Tourism Management/Event Management with at least Lower Credit grade from recognized tertiary institutions plus UTME entry requirements. NCE in Biology/</td>
<td>‘O’ Level credits in five subjects which should include Mathematics, English Language, Chemistry, Biology/ Agricultural Science and ANYONE of the following subjects: Economics and Mathematics.</td>
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<tr>
<td>FOOD SCIENCE</td>
<td>DIRECT ENTRY:</td>
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<tr>
<td>a. GCE ‘A’ Level or equivalent in Chemistry plus at least One of the following subject; Biology/Botany/Zoology/Agric. Science/Economics/Mathematics plus U.T.M.E. entry requirements.</td>
<td></td>
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</tr>
<tr>
<td>Credits at SSCE/NECO/GCE ‘O’ Level, NABTEB or equivalent at least 5 subjects including English Language, Mathematics, Chemistry, Physics, Food and Nutrition or Biology/Agric.</td>
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<tr>
<td>English Language, Biology/Agric. Science, Chemistry and any of the following: Physics, Mathematics and Economics.</td>
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<tr>
<td>DIRECT ENTRY:</td>
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<tr>
<td>i) Candidates with a pass in Biology, but who have credit in Agric. Science may be considered.</td>
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<td>(ii) Ordinary pass in Physics is acceptable in lieu of Credit Pass.</td>
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</tbody>
</table>
| **FORESTRY AND WILDLIFE** | **At least two ‘A’ level passes in Chemistry and one of Botany / Biology / Zoology; Geography; Economics; Mathematics with minimum of 5 points. Botany and Biology will not count as two subjects.** | **Five ‘O’ level credit passes at not more than two sittings to include; English Language, Chemistry, Mathematics, Biology / Agricultural Science; and any of Geography and Economics, with at least a pass in Physics.** | **English Language, Chemistry, Biology / Agricultural Science, and any of Geography, Economics, Physics and Mathematics.** | **i) OND/ND (Forestry/Wildlife) or related field with minimum of Lower Credit from recognized institutions into 100 level.**  
**ii) HND (Forestry/Wildlife) or related field with minimum of Lower credit may be admitted into 200 level.**  
**iii) NCE Agriculture double major at Credit Pass level may be admitted into 200 level.** |
### FACULTY OF ARTS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>REQUIREMENTS</th>
<th>UTME SUBJECTS</th>
<th>SPECIAL CONSIDERATION (WAIVER)/REMARKS</th>
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<td><strong>DIRECT ENTRY:</strong></td>
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<tr>
<td>(i) UNILORIN accepts Unilorin Diploma and other relevant Diploma: BUK, KWASU, ABU. (This satisfies both A/L and O/L admission requirements by Direct Entry).</td>
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<tr>
<td>(ii) Candidates who do not offer Arabic at UTME but meet UTME entry requirements may be considered for admission into 100 level.</td>
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</tr>
<tr>
<td>(iii) Unilorin accepts candidates with Senior Islamic Studies Certificates or its equivalent as “O” level qualification for Arabic Studies and related programmes.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>UTME:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>UNILORIN may accept candidates with no Arabic but who meets UTME entry requirements into 100 level</td>
</tr>
<tr>
<td>CHRISTIAN STUDIES</td>
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</tr>
<tr>
<td>COMPARATIVE RELIGIOUS STUDIES</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>ENGLISH LANGUAGE</td>
</tr>
</tbody>
</table>
| FRENCH | At least two A’ level passes including French and one other Arts or Social Science Subject. | Five O’level credit passes in French, English Language, Mathematics and two other Arts/Social Science Subjects. | French and any other two Arts/Social Science Subjects. | DIRECT ENTRY:  
UNILORIN accepts NCE (Credit Level) with French as major subject and Diploma with French as Principal subject.  
UTME:  
(i) UNILORIN accepts Social Science Subjects.  
(ii) UNILORIN accepts ND with French as principal subject.  
WAIVER  
Candidate who do not offer French at UTME but meet the O/Level requirement may be considered |
<table>
<thead>
<tr>
<th><strong>HISTORY AND INTERNATIONAL STUDIES</strong></th>
<th>At least two A’ level passes in History or Government and any other Arts/Social Science Subject</th>
<th>Five O’level credit passes to include English, Mathematics, History/Government and any two Arts/ Social Science Subjects.</th>
<th>History/ Government and any other two subjects from Arts or Social Sciences.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DIRECT ENTRY:</strong> UNILORIN accepts</td>
<td>(i) Government in lieu of History</td>
<td>(ii) NCE (Merit Pass) in History and or Government/ Political Science as major and any other Arts or Social Science Subject.</td>
<td>(iii) NCE Social Studies Double major with at least a merit pass.</td>
</tr>
<tr>
<td><strong>UTME</strong></td>
<td>UNILORIN requires five O’ level credits in English Language, History/ Government plus three other Arts/Social Science Subjects.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISLAMIC STUDIES</td>
<td>At least two A’ level passes to include Islamic Studies and any other Arts/Social Science Subject</td>
<td>Five O’level credit passes to include English Language, Mathematics, Islamic Studies or Arabic and any two Arts/Social Science Subjects.</td>
<td>Islamic Studies and two other Arts/Social Science Subjects</td>
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</tr>
<tr>
<td></td>
<td>(i) UNILORIN accepts relevant Diploma of Bayero University, Kano (This satisfies both A/L and O/L admission requirements by Direct Entry).</td>
<td>(ii) Candidates who do not offer Islamic Religious Studies at UTME but meet UTME entry requirements may be considered for admission into 100 level.</td>
<td>(iii) Unilorin accepts candidates with Senior Islamic Studies Certificates as entry qualification for Islamic Studies and related programmes.</td>
</tr>
</tbody>
</table>
| **LINGUISTICS** | At least two A' level passes or NCE to include any Language, preferably an African Language and any other Arts/Social Science/Science Subject | Five O’ level credit passes including English Language, Mathematics, one other Language and any two Arts/Social Science/ Science Subjects. | Any Language and two other Arts/ Social Science/ Science Subjects. | **DIRECT ENTRY**  
(i) UNILORIN accepts Diploma in Linguistics  
(ii) UNILORIN requires A’ level or NCE with a major in Language and any two Arts/ Social Science/ Science subject.  
**UTME**  
(i) UNILORIN requires O’level credits passes in Arts and Social Sciences.  
(ii) UNILORIN requires at least one Nigerian Language and one other Arts Subject.  
(iii) UNILORIN accepts a Science Subject.  
**UTME. SUBJECTS**  
UNILORIN requires one Language and any two subjects from Arts/Science/ |
<table>
<thead>
<tr>
<th>THE PERFORMING ARTS</th>
<th>DIRECT ENTRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>(i) At least two A’ level passes to include Fine Arts/Music/Literature-in-English and any other Arts/ Social Science/Science Subject</td>
<td>(i) UNILORIN requires A’ level candidates to pass Lit-in-English at credit levels.</td>
</tr>
<tr>
<td>(ii) NCE passes at merit level in English/ Music/Fine Arts and or Applied Arts as a major subject</td>
<td>(ii) UNILORIN requires holders of Diploma in Theatre Arts or Dramatic Arts to pass Literature-in-English at credit in O/Level</td>
</tr>
<tr>
<td>(iii) Diploma in Theatre Arts/ Dramatic Arts/Journalism/ Architecture/ Environmental Design/Mass Communication/ Law/ Music/Fashion Design / Make-ups</td>
<td>UTME</td>
</tr>
<tr>
<td>Five O’level credit passes to include English Language, Mathematics, Literature-in-English and any two Arts/ Social Science/ Science Subjects.</td>
<td>UNILORIN accepts ABRSM Grade V and above (Music Theory) or equivalent certificate in lieu of credit pass in Lit-in-English.</td>
</tr>
<tr>
<td>One Art subject and any other two Arts/Social Science/Science Subjects</td>
<td></td>
</tr>
</tbody>
</table>
### FACULTY OF COMMUNICATION AND INFORMATION SCIENCES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>REQUIREMENTS</th>
<th>UTME SUBJECTS</th>
<th>SPECIAL CONSIDERATION</th>
</tr>
</thead>
</table>
| YORUBA | 1) At least two A’ level passes to include Yoruba and any other Arts/Social Science Subject.  
2) NCE with a major in Yoruba  
3) Diploma in Yoruba with Upper Credit and any other Arts and Social Science subject. | Five O’level credit passes to include Yoruba, Mathematics, English Language, and two other Arts/Social Science Subjects. | Yoruba and two other subjects in Arts/Social Science. |

**DIRECT ENTRY**

UNILORIN accepts NCE/Diploma (Upper Credit) in Yoruba and Social Science Subjects.

**UTME**

UNILORIN accepts candidates who do not offer Yoruba (Language/Literature) but meet other UTME entry requirements.
| COMPUTER SCIENCE | UTME qualifications plus (i) or (ii).  
(i) At least two A’ level passes in Mathematics, and any of Physics and Chemistry.  
(ii) Diploma in Computer Science. | Five O’level credit passes in English Language, Mathematics, Physics, Chemistry and Biology. | English Language, Mathematics, Physics and Chemistry. |
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</thead>
<tbody>
<tr>
<td>DIRECT ENTRY:</td>
<td>UNILORIN accepts ND Upper Credit or HND Lower Credit in Computer Science.</td>
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</tr>
<tr>
<td>INFORMATION AND COMMUNICATION SCIENCE</td>
<td>UTME qualifications plus: A’ Level or equivalence with a minimum of two relevant subjects from Mathematics, Physics, Chemistry, Biology/ Agric. Science, Economics and Geography.</td>
<td>Five (5) O’Level credits in SSCE/ NECO/GCE or equivalent to include English Language and Mathematics; and at least three other subjects from Physics, Chemistry, Biology/Agric. Science, Economics, Geography.</td>
<td>English language and any three subjects from, Mathematics Physics, Chemistry, Biology/Agric. Science, Economics, Geography</td>
</tr>
<tr>
<td><strong>LIBRARY AND INFORMATION SCIENCE</strong></td>
<td><strong>(i) Two A’ Level passes in relevant subjects with O’Level Credit passes in three other subjects from Arts/Social Science/Science.</strong></td>
<td><strong>(ii) Three (3) passes in any subject area at Advanced Level with SSCE/GCE O’level Credit Passes in two other subjects from Arts/Social Science/Science.</strong></td>
<td><strong>(iii) National Diploma (Upper Credit) in Library and Information Science from recognized polytechnics.</strong></td>
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<tr>
<td>UTME qualifications plus (a) or (b).</td>
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<tr>
<td>(a) National Diploma (at Upper Credit) in Journalism, Mass Communication, Public Relations and Advertising.</td>
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<tr>
<td>(b) HND (at least with Lower Credit) in Journalism, Mass Communication, Public Relations and Advertising.</td>
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</tbody>
</table>

| Five O’level credit passes in SSCE/NECO/GCE or equivalent including English Language, Mathematics, one Arts subject (preferably Literature in English), one Social Science subject and any other subject |

| Four subjects including English Language, one Art subject, one Social Science subject and any other subject |

<p>| DIRECT ENTRY |
| UNILORIN accepts Diploma (Upper Credit) in Journalism, Mass Communication, Public Relations and Advertising |</p>
<table>
<thead>
<tr>
<th>TELECOMMUNICATION SCIENCE</th>
<th>UTME qualifications plus (a) or (b).</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Two “A” Level Passes or equivalent in Mathematics, Physics and any one of the following Chemistry, Biology and Geography.</td>
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<tr>
<td>b. Upper Credit in the National Diploma (ND) and a minimum of one-year post qualification Industrial attachment in the physical sciences and engineering disciplines.</td>
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<tr>
<td>Five O-level credits in SSCE/NECO/GCE including Mathematics, English language, Physics, Chemistry and any of Further Mathematics, Technical Drawing, Economics and Geography.</td>
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<tr>
<td>English Language Mathematics, Physics, Chemistry.</td>
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<tr>
<td>COURSE</td>
<td>DIRECT ENTRY REQUIREMENTS</td>
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</table>

FACULTY OF EDUCATION
| ADULT EDUCATION STUDIES | (i) At least two “A” Level passes in GCE/IJMB or equivalent to include at least one Teaching subject in Arts/Social science/ Science subjects.  
(ii) NCE with at least one teaching subject in Arts/ Social Science/ Science subjects  
(iii) Diploma in Adult Education with a minimum of merit pass | Five O’ level credit passes in GCE/SSCE/ TC II or equivalent to include English Language, Mathematics and any three other Arts/Social Science/ Science subjects | Any three Arts/ Social Science/ Science subjects. |
| PRIMARY EDUCATION STUDIES | (i) At least two A Level passes in GCE/IJMB or equivalent to include at least one Teaching subject in Art/ Social science/ Science subjects.  
(ii) NCE with at least one teaching subject in Arts/ Social Science/ Science subjects  
(iii) Diploma in Early Childhood or Primary Education with a minimum of merit pass | Five O’ level credit passes in GCE/SSCE/ TC II or equivalent to include English Language, Mathematics and any three other Art/Social Science/ Science subjects | Any three Art/ Social Science/ Science subjects |
EDUCATION AND ARABIC:  At least two A’ level passes in GCE/IJMB or NCE in relevant subjects including Arabic

Five O’level credit passes in relevant subjects including English Language, Mathematics and Arabic and two from the following:

Civic Education, Government, Geography, Economics, Commerce, History, Social Studies, Insurance

Arabic and any two relevant Arts/Social Science subjects.

Islamic Studies, Government, Literature, Economics, Commerce, Geography, History

DIRECT ENTRY

(i) UNILORIN accepts relevant Diploma of Bayero University, Kano (This satisfies both A/L and O/L admission requirements by Direct Entry).

(ii) Candidates who do not offer Arabic at UTME but meet UTME entry requirements may be considered for admission into 100 level.

(iii) Unilorin accepts candidates with Senior Islamic Studies Certificates as entry qualification for
EDUCATION AND
CHRISTIAN
RELIGIOUS
STUDIES

At least two A’ level passes in GCE/IJMB or Equivalent to include CRS and any other Arts subjects.

Five O’level credit passes in GCE/SSCE/NECO/TC II/
Equivalent to include English Language, Mathematics, CRS and any two from the followings:

English Language, CRS and any other two relevant Arts/Social Science subjects from the following:

UNILORIN accepts Diploma in Religious Studies or Theology of London or an accredited Nigerian University.
B.Sc. (Ed.) Economics

(a) A level passes or NCE in Economics, Geography, Political Science and Social Studies Plus O/L Credits in five subjects including English Language, Mathematics, Economics and any two from the following subjects: Geography, Social Studies, Financial Accounting (F/A), Civic Education, Business Management, Government, Commerce and Marketing


Preference will be given to NCE holders for Direct Entry. General English at NCE level is not acceptable as a replacement for O’ Level credit pass.

(b) 2 ‘A’ Level passes in GCE/IJMB or Equivalents in any two of the following subjects: Economics, Government, Geography, Accounting, Plus O/L Credits in five subjects including English Language, Mathematics, Economics, Social Studies, F/A, Civic Education, Commerce, Marketing, Government and Business Management.
B.Sc. (Ed.) Geography

(a) A level passes or NCE in Geography, Economics, Political Science and Social Studies plus O/L credits in five subjects including English Language, Mathematics, Geography and two other Social Science subjects.

(b) 2 ‘A’ Level passes in GCE/IJMB or Equivalents in Geography, Economics, Political Science/Government, Accounting.

O/L Credits in five subjects including English Language, Mathematics, Geography and any two from the following subjects: Economics, Social Studies, F/A, Civic Education, Government, Commerce, Marketing and Business Management.

English Language plus three other subjects from Economics, Mathematics, Commerce, Financial Accounting, Geography and Government.

Preference will be given to NCE holders for Direct Entry. General English at NCE level is not acceptable as a replacement for O’ Level credit pass.
B.Sc. (Ed.) Social Studies

(a) 2 ‘A’ Level passes in NCE Social Studies/Economics, Geography, History, Political Science, plus O/L Credits in five subjects including English Language, Mathematics, and two from the following subjects: Economics, Social Studies, F/A, Civic Education, Government, Commerce, Marketing and Business Management.

O/L Credits in five subjects including English Language, Mathematics and two from the following subjects: Economics, Social Studies, F/A, Civic Education, Government, Commerce, Marketing and Business Management.

(b) 2 ‘A’ Level passes in GCE/IJMB or Equivalents in any two of the following subjects: Economics, Government, Geography, Accounting plus O/L Credits in five subjects including English Language, Mathematics, and two from the following subjects: Economics, Social Studies, F/A, Civic Education, Government, Commerce, Marketing and Business Management.

English Language, Mathematics

Preference will be given to NCE holders for Direct Entry. General English at NCE level is not acceptable as a replacement for O’ Level credit pass.
B. A (Ed) Social Studies

(a) 2 ‘A’ Level passes in NCE Social Studies/C.R.S, or I.R.S., or History or English Language, or Primary Education Studies plus O/L Credits in five subjects including English Language, Mathematics and any three from the following Arts subjects: CRS, IRS, Yoruba, French, Civic Education, History/Government and Literature in English.

(b) 2 ‘A’ Level passes in GCE/IJMB or Equivalent in any two Arts subjects e.g. Lit-in English, History/Government plus O/L Credits in five subjects including English Language, Mathematics and any other two from the following Arts subjects: CRS, IRS, Yoruba, French, Civic Education.

O/L Credits in five subjects including English Language, Mathematics and three from the following Arts subjects: CRS, IRS, Yoruba, French, Civic Education, History/Government and Literature in English, English Language plus two other Arts subjects from the following: CRS, IRS, Yoruba, French, History/Government, Literature in English and Yoruba.

Preference will be given to NCE holders for Direct Entry. General English at NCE level is not acceptable as a replacement for O’Level credit pass.
EDUCATION AND ENGLISH

(i) At least two GCE/IJMB A’ level passes in relevant teaching subjects including Literature-in-English.

(ii) NCE with credit or merit passes in two relevant subjects including English Language

Five O’ level credit passes to include English Language, Mathematics and Literature-in-English plus two from the following:

- Government, History, CRS, IRS, Yoruba, Arabic, French, Geography, Commerce, Economics, Social Studies, Civic Education, Insurance, Literature-in-English, one Arts subject and any other subject from the following:
  - Government, History, CRS, IRS, Yoruba, Arabic, French, Geography, Commerce, Economics
<table>
<thead>
<tr>
<th><strong>EDUCATION AND FRENCH</strong></th>
<th><strong>EDUCATION AND HISTORY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>At least two A’ level passes in GCE/IJMB/Equivalent/NCE merit in French and one other Arts/Social Science subject.</td>
<td>At least two IJMB/GCE A’ level/NCE merit passes in History or Government and one other relevant Arts subject.</td>
</tr>
<tr>
<td>French plus three other Arts subjects/Social Science Subject:</td>
<td>English Language, History, Government, Geography, C.R.S., I.R.K., Yoruba, Commerce, Economics, Lit-in English</td>
</tr>
<tr>
<td></td>
<td>Literature-in-English, Social Studies, Geography, Economics, Yoruba, Commerce</td>
</tr>
</tbody>
</table>
EDUCATION AND
ISLAMIC
STUDIES

(i) At least NCE merit passes in IRS and Education
(ii) IJMB/GCE A’ level passes in Arabic/IRS and any other relevant Arts subject.

Five O’level or TC II credit/merit passes to include English, Mathematics and Islamic Religious Studies, Arabic, Civic Education, Government, Geography, Economics, Commerce, History, Social Studies, Insurance

Islamic Studies/Arabic and any other three Social Science or Arts subjects

DIRECT ENTRY

(i) UNILORIN accepts relevant Diploma of Bayero University, Kano (This satisfies both A/L and O/L admission requirements by Direct Entry).

(ii) Candidates who do not offer Islamic Religious Studies at UTME but meet UTME entry requirements may be considered for admission into 100 level.

(iii) Unilorin accepts candidates with Senior Islamic Studies Certificates as entry.
B. Ed. Educational Management

(i) NCE with at least one teaching subject from:

(a) Arts
Eng. Lang., French, Yoruba, CRS, History, IRS, Arabic, Lit. in Eng. and Government.

(b) Social Science
Economics, Government, Geography, Social Studies

(c) Sciences
Mathematics, Biology, Physics, Chemistry, Physical and Health Education

(ii) At least two A’ level passes in GCE/IJMB to include at least one Teaching subject in Arts/Social Sciences.

Five O’ level credits in GCE/SSCE/NECO/NABTEB/TCII Equivalent to include English Language, Mathematics and any three subjects from:

(a) Arts
Eng. Lang., French, Yoruba, CRS, History, IRS, Arabic, Lit. in Eng. and Government.

(b) Social Science
Economics, Government, Geography, Social Studies

(c) Sciences
Mathematics, Biology, Physics, Chemistry, Physical and Health Education

English, Language and any three of the following subjects:

(a) Arts
Eng. Lang., French, Yoruba, CRS, History, IRS, Arabic, Lit. in Eng.

(b) Social Science
Economics, Government, Geography

(c) Sciences
Mathematics, Biology, Physics, Chemistry,
B.Sc. (Ed.) Business Education

(a) NCE Business Education Double Major Plus Five Ordinary level credits in GCE/SSCE/NECO/ NABTEB/ Equivalent, to include English Language, Mathematics and any three of the following Social Science and Commercial subjects at not more than two sittings: Financial Accounting, Business Management (Business Methods), Commerce, Words Processing (Typewriting), Shorthand, Marketing, Office Practice, Salesman, Insurance, Information and Communication Technology, Economics, Government and Geography, Data Processing.

(b) NCE Business Education with the following options: (Accounting, Secretarial Studies and Marketing) Plus Five Ordinary level credits in GCE/SSCE/NECO/ NABTEB/ Equivalent, to include English Language, Mathematics and any three of the following Social Science and Commercial subjects at not more than two sittings: Economics, Book Keeping/ Principle of Accounting, Business Management, Commerce, Typewriting and Shorthand.

Five ‘O’ level credits in GCE/SSCE/NECO/ NABTEB/ Equivalent, to include English Language, Mathematics and any three of the following Social Science and Commercial subjects:

1. Preference will be given to NCE holders for Direct Entry.
EDUCATION AND YORUBA

At least Two GCE/IJMB A’ level/NCE passes in Yoruba and any of Literature-in-English, English, Social Studies, Yoruba, Arabic, CRS, IRS, Igbo, Hausa and French.

Five O’level/TC II or equivalent credit or merit passes including English Language, Mathematics, Yoruba and any other two subject from Geography, Government, History, Social Studies, Civic Education, Economics, Commerce, West African Traditional Religion, Insurance, CRK, IRS, Arabic.

Yoruba and any two subjects chosen from History, Literature-in-English, French, CRK, Islamic Studies, Arabic, Geography, Economics and Commerce.
COUNSELLOR
EDUCATION

(i) At least Credit/Merit in NCE subjects to include one teaching subject in either Arts/Social Sciences/Sciences.

(ii) Two ‘A’ Level Credits to include one teaching subject in either Arts/Social Sciences/Sciences. Only GCE and A/L IJMB will be considered.

Candidates with NCE must have five ‘O’ Level credits to include English language, Mathematics and three other subjects in Arts/Social Sciences/Sciences. A/L candidates must have five ‘O’ Level credits in English Language, Mathematics and three other subjects in Arts/Social Sciences/Sciences.

Any three Art/Social Science/Science subjects.
<table>
<thead>
<tr>
<th>Agriculture Science</th>
<th>Education, Agricultural Science. Passes at A ‘Level of G.C.E. or NCE</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>(a.) (Double major) in Agricultural Science.</td>
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<tr>
<td></td>
<td>(b.) Education plus Agricultural Science with minor in Biology, Chemistry, Integrated Science</td>
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<tr>
<td></td>
<td>(c.) A ‘Level’ of IJMB/GCE or equivalent in Chemistry, plus at least one of the following subject:</td>
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<tr>
<td></td>
<td>Biology/Botany/Zoology, Agricultural Science</td>
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<tr>
<td></td>
<td>Education, Biology and Chemistry or Integrated Science or Computer Science (at NCE or A/L)</td>
</tr>
<tr>
<td></td>
<td>Credit in Biology, Chemistry, English Language, Mathematics, Geography, or any other Science subjects at O/Level.</td>
</tr>
<tr>
<td></td>
<td>English Language, Biology, Chemistry, and any of Mathematics, Physics, Geography or Agric. Science.</td>
</tr>
<tr>
<td></td>
<td>Students can minor in Chemistry or Educational Technology.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Biology Education</th>
<th>Five O/Level Credit including in English Language, Mathematics, and any three of Agricultural Science or Biology, Chemistry, Economics, Geography.</th>
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<tbody>
<tr>
<td></td>
<td>English Language, Biology, Chemistry, and any of Mathematics, Physics, Geography or Agricultural Science or Economics.</td>
</tr>
<tr>
<td></td>
<td>Students can minor in Chemistry or Educational Technology.</td>
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<tr>
<td>Course</td>
<td>Requirements</td>
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<tr>
<td>Chemistry Education</td>
<td>Education, Chemistry, Mathematics, Physics or Biology or Integrated Sci. or Computer Sci. (at NCE or A/L): plus any two O/L subjects.</td>
</tr>
<tr>
<td>Mathematics Education</td>
<td>Education, Mathematics, Chemistry and Physics or Integrated Science, Computer Science (at NCE or A/L): plus any other two O/L subjects at credit level. Mathematics and Geography.</td>
</tr>
</tbody>
</table>
Candidates who satisfy the O’ Level or Teachers’ Grade II requirement in addition have the following qualifications may be given direct entry admission into the 200 level.

i. Nigeria Certificate in Education (NCE) or its equivalent in Computer Science (single or double major) with an overall grade of at least a Merit.

ii. Ordinary National Diploma (OND) in Computer Science with a minimum overall grade of Lower Credit.

iii. Passes at A ‘Level of G.C.E. or equivalent in Mathematics plus at least one of the following subjects: Physics, Further Mathematics and any of the following:

   i. Biology
   ii. ICT
   iii. Data Processing
   iv. Computer Studies

Candidates must have English Language, Physics and Chemistry Credit passes in five G.C.E. O’ Level (WAEC, NECO, NABTEB or equivalent) or at least merit in Teachers’ Grade II Certificate Examinations. The subjects passed at the credit level (or at least merit level in Teachers’ Grade II Certificate Examination) must include Mathematics, English Language, Physics, Chemistry and any of the following:

   i. Biology
   ii. ICT
   iii. Data Processing
   iv. Computer Studies

English Language, Mathematics, Physics and Chemistry
<table>
<thead>
<tr>
<th>B. A. (Ed.) in Educational Technology with Minor Options in Arts</th>
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</thead>
<tbody>
<tr>
<td>Candidates who satisfy the O’ Level or Teachers’ Grade II requirement mentioned under UTME admission, in addition must have the following qualifications:</td>
</tr>
<tr>
<td>ii. IJMB / A ‘Level of G.C.E. or equivalent in English Language, Fine and Applied Arts, French, History, Islamic Studies, Nigerian Languages.</td>
</tr>
<tr>
<td>Credits in English and Mathematics, and any two of the following: O/Level subjects in selected Arts and one Social Science Subjects including:</td>
</tr>
<tr>
<td>- Picture making,</td>
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<td>- Ceramics</td>
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<td>- Carpentry and Joinery</td>
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<td>- Graphic Design</td>
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<td>- Sculpture</td>
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<td>- Woodwork</td>
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<td>- Textiles</td>
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<tr>
<td>- ICT</td>
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<tr>
<td>- Printing and Decorating</td>
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<tr>
<td>- Visual Arts</td>
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<tr>
<td>English Language, plus any three Arts subjects or English Language, two Arts subjects with a Social Science subject</td>
</tr>
<tr>
<td>Candidates with Diploma in any of (i) Creative Arts and Crafts, (ii) Instructional Radio and Television Production, and (iii) Photography of University of Ilorin can be admitted through Direct Entry (200 Level)</td>
</tr>
</tbody>
</table>
Candidates who satisfy the O’ Level or Teachers’ Grade II requirement mentioned under UTME admission, in addition must have the following qualifications:

i. NCE in any of Biology, Chemistry, Computer Science, Health Education, Human Kinetics, Integrated Science, Mathematics, Physics, Technology Education

ii. National Diploma (ND) in A-V Technology; Electrical/ Mechanical/ Civil Engineering/ Woodwork/ Metallurgical and Computer Science.

iii. IJMB / A ‘Level of G.C.E. or equivalent in Chemistry, Mathematics, Physics, Biology, Further Mathematics

Credits in English and Mathematics, and any other three O/Level Science or Technical Subjects, including

- Information and Communication Technology (ICT)
- Basic Electricity
- Applied Electricity
- Electrical Installation and Maintenance work
- Radio, Television and Electronic work

Candidates with Diploma in any of

(i) Creative Arts and Crafts,
(ii) Instructional Radio and Television Production, and
(iii) Photography of University of Ilorin can be admitted through Direct Entry (200 Level)
### B. Sc. (Ed.) in Educational Technology with Minor Options in Social Sciences

Candidates who satisfy the O' Level or Teachers' Grade II requirement mentioned under UTME admission, in addition must have the following qualifications:

1. NCE in any of Accounting, Economics, Geography, Political Science, Social Studies.
2. IJMB / A 'Level of G.C.E. or equivalent in Accounting, Economics, Geography, Political Science, Social Studies.

#### Credits in English and Mathematics, and any other three O/Level Social Sciences subjects including the following:

- Data Processing
- Computer Studies
- Business Management
- Insurance
- Marketing.

#### English Language and any three Social Science subjects

Candidates with Diploma in any of

(i) Creative Arts and Crafts,
(ii) Instructional Radio and Television Production, and
(iii) Photography of University of Ilorin can be admitted through Direct Entry (200 Level)
Candidates who satisfy the O’ Level or Teachers’ Grade II requirement mentioned under UTME admission, in addition must have the following qualifications

i. NCE (Technical) in A-V Technology/ Electrical/ Mechanical/ Civil Engineering/Woodwork/ Building/ Metallurgical and Computer Science; 
NCE with combination in Physics, Computer, Integrated Science, Chemistry and Biology

ii. National Diploma (ND) or Advanced National Technical Certificate (ANTC) in A-V Technology/ Electrical/ Mechanical/ Civil Engineering/Woodwork/ Building/ Metallurgical and Computer Science; 
NCE with combination in Physics, Computer, Integrated Science, Chemistry and Biology;

iii. Passes at A ‘Level of G.C.E. /IJMB with Physics, or Chemistry or Biology as one of the subjects passed.

HEALTH EDUCATION

(a) NCE in Physical and Health Education, Agriculture Science/Chemistry, Biology, Physics, Home Economics and Integrated Science plus five 'O' level credits in GCE/SSCE/NECO/NABTEB/Grade II TC to include English Language, Mathematics and any three (3) of the Science, Arts or Commercial subjects. Biology, Agric. Science, Economics, IRS/CRS, Commerce, Chemistry, Physics, Health Science, Mathematics,

(b) 'A' Level passes in GCE/IJMB/ or their Equivalent in any two of the following subjects: Biology, Chemistry, Physics, Mathematics, Economics, Geography, Government, Health Science and CRK/IRS plus FIVE 'O' Level Credits as stated in (a) above

(c) Any accredited Diploma in Physical and Health Education

Five 'O' Level Credits in GCE/SSCE/NECO/NABTEB/Grade II TC /Equivalent to include English Language, Mathematics and any three (3) of the following social sciences, Art and Science subject in at not more than two sittings: Economics, Biology, Agric. Science, Government, Commerce, Chemistry, Physics, History, Geography, Health Science, Physical Education, Christian Religion Studies, History, Food and Nutrition, Islamic Studies, Financial Accounting, Civic Education, Computer Studies, Animal Husbandary, Clothing and Textiles, Crop Husbandary and Horticulture, Home Management,

Preference will be given to NCE holders & A first degree from a recognized institution for Direct Entry.

UNILORIN Diploma and other Diploma from Accredited Institutions
(a) Two NCE/Dip/AL Merit passes in any of Physical & Health Education and related areas, Special Education, Science Lab Technology, Biology, Chemistry, Physics, Mathematics, Integrated Science, Health Science, Economics, Accounting, Geography, Government, Computer Science, Agricultural Science, Home Economics, and Integrated Science plus five ‘O’ Level Credits in GCE/SSCE/NECO/NABTEB/Grade II TC to include Mathematics, English Language and any three (3) of the Science subjects and or social science or Arts subjects in not more than two sittings.

(b) ‘A’ Level passes with minimum of 9 points in GCE/IJMB/Equivalent in any two of the following subjects: Biology, Chemistry, Economics, Geography, Government, Mathematics, Integrated Science, Health Science, Economics, Accounting, Geography, Government, Computer Science, Agricultural Science, Home Economics, and Integrated Science plus five ‘O’ Level Credits/TCII at Merit Level or equivalence to include English Language, Mathematics and 3 other subjects which must include either two Science; Social Science and or Arts Subjects.

For B.Sc.(Ed.) Human Kinetics; Physical Education, Mathematics, Biology, Health Science, Economics, Geography, Government, Physics, Chemistry, Religious Studies, Literature in English, or any other two relevant subjects.

All candidates either major or minor in the Department of Human Kinetics Education may be interviewed.

Candidate with Third Class may be considered for direct entry.

In addition candidate with Nursing, Public Health and Health related areas are admitted through direct entry National / Higher Diploma Social Work, Accounting, Data Processing, Banking and Finance, Mass Communication, Sports Journalism, Law.
## FACULTY OF ENGINEERING AND TECHNOLOGY

<table>
<thead>
<tr>
<th>COURSE</th>
<th>REQUIREMENTS</th>
<th>UTME SUBJECTS</th>
<th>SPECIAL CONSIDERATION (WAIVER) / REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRECT ENTRY</td>
<td>UTME</td>
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</table>
| **ENGINEERING**  
(All Courses) | In addition to O’Level and Post-UTME requirements, candidates must have either of the following:  
(i) A’Level IJMB or approved equivalent Pass in Mathematics, (Pure or/and Applied), Physics, and Chemistry with a minimum of 10 points.  
(ii) OND (Upper Credit) in Relevant Discipline with at least one year post diploma experience. | UTME candidates are required to obtain O’Level credits in Five (5) subjects including English Language, Mathematics, Physics, Chemistry and any other relevant subject. | English Language, Mathematics, Physics, Chemistry.  
**Direct Entry:**  
In addition to O’Level and Post-UTME requirements, candidates with any of the following qualifications may be considered:  
(i) First Degree from Physical Sciences at Second Class Lower Division may be admitted into 200 Level.  
(ii) HND in relevant Engineering discipline at Distinction or Upper Credits level from recognized Polytechnic or College of Technology after NYSC may be considered for upgrading to 300 Level.  
(iii) First Degree Honours in Engineering discipline may be admitted into 300 Level of any other Engineering programme. |
<table>
<thead>
<tr>
<th>Agricultural and BIOSYSTEMS Engineering</th>
<th>Five O’Level Credit Passes to include Physics, Chemistry, Mathematics, Biology and English Language</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Biomedical Engineering</td>
<td>Physics, Mathematics, Chemistry or Biology</td>
<td>Five O’Level Credit Passes to include Physics, Chemistry, Mathematics, Biology and English Language</td>
</tr>
<tr>
<td>C H E M I C A L ENGINEERING</td>
<td>UTME candidates are required to obtain O’Level credits in Five (5) subjects including English Language, Mathematics, Physics, Chemistry and any other relevant subject.</td>
<td>DIRECT ENTRY: Relevant Discipline include: Biomedical Engineering Technology, Chemical Engineering Technology, Water and Environmental Engineering Technology, Mechanical Engineering Technology, Polymer Engineering.</td>
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<tr>
<td>C I V I L ENGINEERING</td>
<td>UTME candidates are required to obtain O’Level credits in Five (5) subjects including English Language, Mathematics, Physics, Chemistry and any other relevant subject.</td>
<td>DIRECT ENTRY: Relevant Discipline include: OND Civil Engineering and Water Resources Engineering.</td>
</tr>
<tr>
<td>COMPUTER ENGINEERING</td>
<td>UTME candidates are required to obtain O’Level credits in Five (5) subjects including English Language, Mathematics, Physics, Chemistry and any other relevant subject.</td>
<td>DIRECT ENTRY: Relevant Discipline include: Computer Technology, Telecommunications or Communication Engineering, Power Systems Engineering, Control Systems Engineering, Electrical and/or Electronics Engineering Technology, Instrumentation Engineering, Biomedical Engineering.</td>
</tr>
<tr>
<td>ELECTRICAL AND ELECTRONICS ENGINEERING</td>
<td>UTME candidates are required to obtain O’Level credits in Five (5) subjects including English Language, Mathematics, Physics, Chemistry and any other relevant subject.</td>
<td>DIRECT ENTRY: Relevant Discipline include: Electrical and/or Electronics Engineering Technology, Computer Technology, Telecommunications or Communication Engineering, Power Systems Engineering, Control Systems Engineering, Instrumentation Engineering, Biomedical Engineering.</td>
</tr>
</tbody>
</table>
FOOD AND BIOPROCESS ENGINEERING

Five O’Level credits
Passes to include Physics, Chemistry, Mathematics, Biology and English Language,

DIRECT ENTRY:
Relevant Discipline include:
In addition to O’Level and Post-UTME requirements, candidates with any of the following qualifications may be considered:

(i)  First Degree from Physical Sciences at Second Class lower level may be admitted into 200 Level.

(ii) HND in relevant Engineering discipline, at Distinction or Upper Credits level from or College of Technology after NYSC may be upgraded to 300 Level only.

(iii) First Degree Honours in Engineering discipline may be admitted into 300 Level of any other Engineering programme.

UTME:
<p>| MATERIALS AND METALLURGICAL ENGINEERING | In addition to O’Level and Post-UTME requirements, candidates must have either of the following: (i) A’Level IJMB or approved equivalent Pass in Mathematics, (Pure or/and Applied), Physics, and Chemistry with a minimum of 8 points. (ii) OND (Upper Credit) in Relevant Discipline with at least one year post diploma experience. | UTME candidates are required to obtain O’Level credits in Five (5) subjects including English Language, Mathematics, Physics, Chemistry and any other relevant subject. | English Language, Mathematics, Physics, Chemistry. | DIRECT ENTRY: Relevant Disciplines include: Chemical Engineering Technology, Foundry Engineering Technology, Glass/Ceramics Technology, Mechanical Engineering Technology, Metallurgy, Mineral Processing Engineering Technology, Mineral Resources Engineering Technology, Biomedical Engineering Technology, Polymer Technology, Welding and Fabrication Technology, Wood and Paper Technology. |</p>
<table>
<thead>
<tr>
<th>COURSE</th>
<th>REQUIREMENTS</th>
<th>UTME SUBJECTS</th>
<th>DIRECT ENTRY: Relevant Disciplines include:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MECHANICAL ENGINEERING</strong></td>
<td>UTME candidates are required to obtain O’Level credits in Five (5) subjects including English Language, Mathematics, Physics, Chemistry and any other relevant subject.</td>
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<td>Biomedical Engineering and Materials &amp; Metallurgical Engineering, Agricultural Engineering.</td>
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<tr>
<td><strong>WATER RESOURCES AND ENVIRONMENTAL ENGINEERING</strong></td>
<td>UTME candidates are required to obtain O’Level credits in Five (5) subjects including English Language, Mathematics, Physics, Chemistry and any other relevant subject.</td>
<td></td>
<td>Civil Engineering, Building, Architecture, Water Resources, Agricultural Engineering.</td>
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<tr>
<td>DIRECT ENTRY</td>
<td>UTME</td>
<td>REMARKS</td>
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<tr>
<td><strong>ARCHITECTURE</strong></td>
<td>Only Holders of OND (Upper Credit) or HND (Upper Credit) in Architecture in addition to UTME requirements would be considered for admission into 200 level.</td>
<td>Five SSCE credit passes at credit level to include English Language, Mathematics, Physics and any two of Technical Drawing, Fine Arts, Building Construction, Graphic Design, Geography, Chemistry, Biology, Economics.</td>
<td>English Language, Mathematics, Physics and any one of Geography, Biology, Fine Arts, Chemistry, Economics, Technical Drawing and Building Construction.</td>
</tr>
<tr>
<td>ESTATE MANAGEMENT</td>
<td>(i) Holders of OND certificate in Estate Management at Upper Credit level may be considered for admission into 200 Level. (ii) Holders of HND in Estate Management with Upper credit in addition to one above may be considered for upgrade into 300 level upon request by such Candidate. All direct entry Candidates must meet the “O” level requirements</td>
<td>(a) Five SSCE credit passes in English Language, Mathematics, Economics and any one from Physics, Chemistry, Biology and any other one from Geography, Technical Drawing and Fine Arts/Visual Arts, Accounting. (b) Economics and one of Geography, Accounting, Physics, Chemistry, Biology, Technical Drawing, Fine Arts</td>
<td>UTME Subjects i English Language ii Mathematics iii. Economics and one from Geography, Accounting Physics, Chemistry, Biology, Technical Drawing, Fine Arts</td>
</tr>
<tr>
<td><strong>QUANTITY SURVEYING</strong></td>
<td>(i) Holder of OND certificate in Quantity Surveying, Building and Architecture at upper credit level may be considered into 200 level. (ii) Holders of HND certificate in Quantity Surveying with upper credit in both OND and HND may be considered for direct into 300 Level.</td>
<td>(a) Five SSCE credit in English Language, Mathematics, Physics and any other subjects from the following lists: Geography, Technical Drawing, Economics, Chemistry, Commerce, Building Construction, Biology, Block laying, carpentry &amp; joinery, wood work.</td>
<td>English Language, Mathematics, Physics and any one of Geography, Technical Drawing, Economics and Chemistry.</td>
</tr>
<tr>
<td>SURVEYING AND GEOINFORMATICS</td>
<td>(i) Two A” Level passes in Mathematics and Physics are eligible for admission into 200 Level. (ii) Holders of OND in Surveying and Geoinformatics with Upper Credit are eligible for admission into 200 Level. (iii) Holders of HND in Surveying and Geoinformatics with Upper Credit are eligible for admission into 300 Level.</td>
<td>Five SSCE credit passes in English Language, Mathematics, Physics and any two of Chemistry, Geography. Further Mathematics, Technical Drawing and Elementary Surveying.</td>
<td>English Language, Mathematics, Physics and any one of Geography Chemistry, Technical Drawing, Further Mathematics.</td>
</tr>
<tr>
<td>URBAN AND REGIONAL PLANNING</td>
<td>(i) Holders of OND in Urban and Regional Planning with Upper Credit are eligible for admission into 200 Level. (ii) Holders of HND in Urban and Regional Planning with Upper Credit are eligible for admission into 300 Level, In addition to (i) above.</td>
<td>Five SSCE or its equivalent credit passes in English Language, Mathematics, Geography, and any two of Physics, Chemistry, Economics, Biology, Technical Drawing, Fine Art/Visual Arts and Tourism.</td>
<td>English Language, Mathematics, Geography and any one of Physics, Chemistry, Economics, Biology, Technical Drawing, fine Art/Visual Arts.</td>
</tr>
<tr>
<td>COURSE</td>
<td>REQUIREMENTS</td>
<td>UTME</td>
<td>SPECIAL</td>
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FACULTY OF LAW
<table>
<thead>
<tr>
<th>DIRECT ENTRY</th>
<th>UTME</th>
<th>SUBJECTS</th>
<th>CONSIDERATION (WAIVER)/ REMARKS</th>
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<tr>
<td>COMMON LAW</td>
<td>DIRECT ENTRY</td>
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<tr>
<td>(i) At least two A’ level passes in Arts or Social Science subjects.</td>
<td>(i) UNILORIN accepts passes in the following:</td>
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<tr>
<td>(ii) First Degree (Second Class Lower) of an accredited University.</td>
<td>(a) ACIS;</td>
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<tr>
<td>(iii) Diploma in Law from Accredited Institutions with minimum of Upper Credit other than University Diploma</td>
<td>(b) LL.B (UNIVERSITY OF LONDON)</td>
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<td>(c) Two year Diploma in Law of an accredited Government Institution with at least Upper Credit grade.</td>
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<td>(d) A’ level pass in English Literature may be considered in lieu of O’level requirement in Literature-in-English</td>
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<td>(e) Degree holders need not possess Literature-in-English.</td>
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<td>(f) Where a Diploma is of four grades:- Distinction, Credit,</td>
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<tr>
<td>Five O’level credit passes to include English Language, Literature – in – English, Mathematics and any other two Arts or Social Science subjects.</td>
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<tr>
<td>Government, CRS, Civic Education, History, Islamic Studies, Arabic, Economics, Geography, Insurance and Commerce</td>
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<tr>
<td>Literature-in-English and any two other Arts or Social Science subjects.</td>
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</tbody>
</table>
### COMMON AND ISLAMIC LAW

(i) At Least A’ level passes in Islamic or Arabic with Arts/Social Sciences subjects.

(ii) Diploma in Law (Upper credit)

(iii) Relevant degree of an accredited University.

(iv) NCE with Arabic or Islamic Studies as major.

Five O’level credit passes in English Language, Mathematics, Islamic Studies or Arabic and any other two subjects in Arts or Social Sciences. (Civic Edu. /Government/ History)

Arabic or Islamic Studies and any two other Arts/Social Science subjects.

**DIRECT ENTRY**

UNILORIN requires Distinction or Credit grade where a Diploma is of Distinction, Credit, Merit and Pass grades

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### COURSE REQUIREMENTS

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<tr>
<th>COURSE</th>
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<th>UTME SUBJECTS</th>
<th>SPECIAL CONSIDERATION (WAIVER)/ REMARK</th>
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<tbody>
<tr>
<td><strong>DIRECT ENTRY</strong></td>
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<tr>
<td><strong>UTME</strong></td>
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</tr>
<tr>
<td><strong>BIOCHEMISTRY</strong></td>
<td>Two ‘A’ Level passes or equivalent in Biology, Chemistry and Physics</td>
<td>Five O’Level Credit passes in English Language, Mathematics, Physics, Chemistry and Biology.</td>
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</tr>
<tr>
<td><strong>MICROBIOLOGY</strong></td>
<td>UTME qualifications plus a minimum of two A’ Level passes in Biology and Chemistry.</td>
<td>Five O’Level Credit passes in English Language, Mathematics, Physics, Chemistry and Biology.</td>
<td><strong>English Language, Biology, Chemistry, Physics.</strong></td>
</tr>
<tr>
<td><strong>OPTOMETRY AND VISION SCIENCE</strong></td>
<td>UTME qualifications plus A’ Level passes in Biology, Chemistry and Physics. At least 13 Points.</td>
<td>Five O’Level Credit passes at one sitting in English Language, Mathematics, Physics, Chemistry and Biology.</td>
<td><strong>English Language, Biology, Chemistry and Physics.</strong></td>
</tr>
<tr>
<td><strong>PLANT BIOLOGY</strong></td>
<td>UTME qualifications plus a minimum of two A’ Level passes in Biology and Chemistry.</td>
<td>Five O’Level Credit passes in English Language, Mathematics, Physics, Chemistry and Biology.</td>
<td><strong>English Language, Biology, Chemistry and Physics.</strong></td>
</tr>
<tr>
<td><strong>ZOOLOGY</strong></td>
<td>UTME qualifications plus a minimum of two A’ Level passes in Biology and Chemistry.</td>
<td>Five O’Level Credit passes in English Language, Mathematics, Physics, Chemistry and Biology.</td>
<td><strong>English Language, Biology, Chemistry and Physics.</strong></td>
</tr>
</tbody>
</table>
## FACULTY OF MANAGEMENT SCIENCES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>REQUIREMENTS</th>
<th>UTME REQUIREMENTS</th>
<th>SPECIAL CONSIDERATION (WAIVER) REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCOUNTING</td>
<td>At least two A’ level passes (not less than grade ‘C’) including Accounting and at least one of Mathematics, Business Management, Economics, Statistics, Geography and Government.</td>
<td>Five O’Level Credit passes including English Language, Mathematics, Economics and any other two from Accounting, Business Methods, Commerce, Government, Geography, Bookkeeping, Insurance and Data Processing obtained from WAEC, NECO, GCE, IJMB and NABTEB.</td>
<td>English, Mathematics, Economics and any other Social Science subject from Commerce, Financial Accounting, Government and Geography</td>
</tr>
<tr>
<td></td>
<td>DIRECT ENTRY</td>
<td>UTME SUBJECTS</td>
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<td></td>
<td>DIRECT ENTRY</td>
<td>SPECIAL CONSIDERATION (WAIVER) REMARKS</td>
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<td>Unilorin accepts:</td>
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<tr>
<td></td>
<td>i. UNILORIN Diploma in Accounting and Data processing with Upper Credit.</td>
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<td>ii HND with minimum of Lower Credit.</td>
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<td>iii ND in Accountancy with Upper Credit or ND with Lower Credit with ICAN (ATS)</td>
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<td></td>
<td>iv ICAN (ACA)</td>
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<tr>
<td><strong>BUSINESS ADMINISTRATION</strong></td>
<td>(i) At least two ‘A’ level passes in Economics and one of Business Administration, Accounting, Statistics, Mathematics, Geography and Government. At least not less than 12 points</td>
<td>Five ‘O’ level credit passes including English Language, Mathematics, Economics, and any two from Accounting, Business Methods, Commerce, Geography, Insurance, Marketing and Government.</td>
<td>English Language, Economics, Mathematics and any other one Social Science Subject from Accounting, Geography, Commerce and Government.</td>
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<tr>
<td><strong>FINANCE</strong></td>
<td>(At least two A’ level passes <em>(Not less than grade ‘C’)</em> including Accounting and at least one of Mathematics, Business Management, Economics, Statistics, Geography and Government. At least 12 Points.</td>
<td>Five O’Level Credit passes including English Language, Mathematics, Economics and any other two from Accounting, Business Methods, Commerce, Government, Geography.</td>
<td>English, Mathematics, Economics and any other Social Science subject from Accounting, Geography, Commerce and Government.</td>
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<tr>
<td></td>
<td>(i) UNILORIN accepts: (a) Unilorin DIPLOMA in Management Studies (b) ORDINARY NATIONAL DIPLOMA (OND) in Business Studies/Business Management with UPPER CREDIT from recognized institutions</td>
<td>(a) Diploma in Financial Studies with Upper Credit from Unilorin. (b) OND in Banking and Finance with minimum of UPPER CREDIT from recognized institutions in addition to meeting UTME requirements.</td>
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</tbody>
</table>
| MARKETING | (i) At least two A' level passes including Economics and one of Business Management, Accounting, Statistics, Mathematics, Geography and Government.  
(ii) UniLORIN Diploma in Marketing & Logistics  
(iii) Ordinary National Diploma (OND) in Marketing with UPPER CREDIT from recognized Institutions in addition to meeting UTME requirements. | Five ‘O’ Level Credit passes including English Language, Mathematics, Economics and any two from Accounting, Business Methods, Commerce, Geography, Bookkeeping, Business Management, Marketing, Insurance and Government Obtained from WAEC, NECO, NABTEB, IJMB or Its equivalent. | English Language, Economics, Mathematics, and one other social science subject from Geography, Commerce, Government & Accounting. |
| **INDUSTRIAL RELATIONS AND PERSONNEL MANAGEMENT** | At least two A’ level passes in GCE/IJMB to include Economics and one of Business Management, Accounting, Statistics, Mathematics, Geography and Government. | Five O’Level credit passes including English Language, Mathematics, Economics, and any two from Accounting, Business Methods, Commerce, Government, Insurance, Social Studies and Geography. | English Language, Mathematics, Economics and one other subject from Accounting, Geography and Commerce (a) Diploma in Management Studies with Upper Credit. (b) ND in Industrial Relations & Personnel Management OR Human Resource Management with UPPER CREDIT from any recognized institution in addition to meeting UTME requirements. |
### Faculty of Pharmaceutical Sciences

<table>
<thead>
<tr>
<th>COURSE</th>
<th>REQUIREMENTS</th>
<th>UTME SUBJECTS</th>
<th>SPECIAL CONSIDERATION (WAIVER)/ REMARKS</th>
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<tbody>
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<td>DIRECT ENTRY</td>
<td>UTME</td>
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</tbody>
</table>

**Public Administration**

- At least two A’ level passes in GCE/IJMB to include Government and at least one of Economics, Geography, Christian Religion Studies or Islamic Religious Studies.

(i) UNILORIN Diploma in Administrative Management with minimum of Upper Credit.
(ii) ND in Public Administration; or Local Government Studies with minimum of Upper Credit and HND lower credit.
(iii) Advanced Diploma in Public Administration with minimum of Upper Credit from Accredited Tertiary Institutions in addition to meeting UTME requirements.
<table>
<thead>
<tr>
<th><strong>PHARMACY</strong></th>
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<th><strong>DIRECT ENTRY:</strong></th>
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</thead>
<tbody>
<tr>
<td>(i) A’ Level passes in Physics, Chemistry and Biology.</td>
<td>Five O’Level Credit passes in English Language, Mathematics, Physics, Chemistry and Biology</td>
<td>(i) UNILORIN accepts minimum aggregate of 12 Points.</td>
<td></td>
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<tr>
<td>(ii) B.Sc. (Second Class Upper Honours) in relevant fields:</td>
<td>P h y s i c s , C h e m i s t r y and Biology</td>
<td>(ii) UNILORIN accepts B.Sc. (Second Class Honours Upper Division) in A n a t o m y , B i o c h e m i s t r y , M i c r o b i o l o g y , Physiology, Zoology, Chemistry and other Basic Sciences (Plant Biology and Industrial Chemistry.)</td>
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<td><strong>UTME:</strong></td>
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<td>(i) UNILORIN requires five O’Level credit passes at two sittings.</td>
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<tr>
<td>COURSE</td>
<td>REQUIREMENTS</td>
<td>UTME REQUIREMENTS</td>
<td>UTME SUBJECTS</td>
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<tr>
<td>CHEMISTRY</td>
<td>Three passes from GCE A’ level or equivalent in Chemistry, Physics and Biology</td>
<td>Five (5) O’level credits in English Language, Chemistry, Physics, Biology and Mathematics</td>
<td>English Language, Chemistry, Physics and Biology</td>
</tr>
<tr>
<td>GEOLOGY</td>
<td>Three A’ Level passes or equivalent in Chemistry and Physics plus any of Geology, Mathematics.</td>
<td>SSCE or equivalent with at least five (5) credits including English Language, Mathematics, Biology, Chemistry and Physics obtained at not more than two sittings.</td>
<td>English Language, Chemistry, Mathematics and Physics</td>
</tr>
<tr>
<td>GEOPHYSICS</td>
<td>Five O’Level Credit passes to include English Language, Physics, Mathematics, Chemistry, and any one of the following Further Mathematics, Biology and Geography.</td>
<td>English Language, Physics, Mathematics and Computer Science</td>
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<tr>
<td>(i) Three A’ level passes to include Physics, Mathematics and any one of Chemistry and Geology. (ii) National Diploma (Upper Credit) in Electrical Engineering, Petroleum Engineering, Geology and Mining, Physics or Computer Science. (iii) NCE (Distinction or Credit) in any two from Physics, Mathematics, Geology and Computer Science</td>
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<tr>
<td>INDUSTRIAL CHEMISTRY</td>
<td>At least three A’ Level or equivalent in Chemistry, Physics and Mathematics</td>
<td>Five O’Level Credits in English Language, Chemistry, Physics, Mathematics and Biology</td>
<td>English Language, Chemistry, Physics and Mathematics</td>
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<tr>
<td><strong>MATHEMATICS</strong></td>
<td>(i) At least two A' Level passes in Mathematics and Physics.</td>
<td>Five O'Level Credits passes including English Language, Mathematics, Physics, Chemistry and one of the following Further Mathematics or Biology, Economics, Geography.</td>
<td>English Language, Mathematics, and any two of Physics, Chemistry, Economics, Geography and Biology.</td>
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<td>(ii) NCE (Distinction) or Mathematics, Physics Plus UTME Requirements</td>
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<tr>
<td><strong>PHYSICS</strong></td>
<td>(i) At least two A' Level passes in Physics and Mathematics.</td>
<td>Five O' Level Credits passes to include English Language, Mathematics, Physics, Chemistry and one of Further Mathematics, Biology or Agricultural Sciences.</td>
<td>English Language, Physics, Mathematics, and Chemistry.</td>
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<tr>
<td></td>
<td>(ii) NCE (Distinction/Merit passes) in Physics and Mathematics plus UTME requirements.</td>
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<tr>
<td>FACULTY OF SOCIAL SCIENCES</td>
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<tr>
<td><strong>STATISTICS</strong></td>
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<tr>
<td>(i) At least two A’ level passes or equivalent in Mathematics and any of Physics, Chemistry Economics or Geography.</td>
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<tr>
<td>(ii) National Diploma (ND) or Diploma in Statistics with at least a credit pass from a recognized Institution.</td>
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<td>(iii) NCE in Mathematics and any of Chemistry, physics, Economics or Geography</td>
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<tr>
<td>At least five O’Level Credits which must include Mathematics, English Language and any three from the following, namely: Physics, Chemistry, Further Mathematics, Economics, Geography and any other subject.</td>
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<tr>
<td>English language, Mathematics and any two of Physics, Chemistry, Economics and Geography.</td>
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<tr>
<td>COURSE</td>
<td>REQUIREMENTS</td>
<td>UTME SUBJECTS</td>
<td>SPECIAL CONSIDERATION (WAIVER)/ REMARKS</td>
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</table>
| Criminology and Security Studies | (1) At least two “A”passes in Sociology, Government, Economics, Geography, Business Management in GCE/IJMB or their equivalents (not less than) two social science Subjects.  
(2) National Diploma (Upper Credit) in related courses from recognized institutions.  
(3) Unilorin Diploma in DCCM and DSA at Upper Credit. | At least five (5) credits in GCE/SSCE/NECO or their equivalents in English Language, Mathematics, and any three of the followings Subjects: Economics/Government, Geography, Civic Educ., Commerce, at not more than two (2) sittings. | English Language, Government and two from the following: Economics Geography, Commerce. |
<table>
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<tr>
<th>ECONOMICS</th>
<th>At least two A’ level passes in Economics and any one of Mathematics, Geography, Commerce and Government.</th>
<th>Five O’ level credit passes in English Language, Mathematics, Economics and any two of Commerce, Geography and Government</th>
<th>English Language, Economics, Mathematics and any Social Science subject from Commerce, Geography, and Government</th>
<th>DIRECT ENTRY UNILORIN accepts Unilorin Diploma in Money and banking (Upper Credit) in addition to UTME requirements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOGRAPHY AND ENVIRONMENTAL SCIENCES</td>
<td>i. At least two A’ level passes in Geography and one other Social Science or Science subject. ii. NCE in Geography in addition to UTME entry requirements</td>
<td>Five O’ level credit passes in English Language, Mathematics, Geography and any other two from Social Science or Science subjects.</td>
<td>Geography and two other Social Science or Science Subjects.</td>
<td></td>
</tr>
<tr>
<td><strong>POLITICAL SCIENCE</strong></td>
<td>At least two A’ level passes including Government/History and any other Social Science Subject.</td>
<td>Five O’ level credit passes in Government/History, English Language, Mathematics and two other Social Science subjects.</td>
<td>English Language, Government/History in addition to other two Social Science subjects.</td>
<td><strong>DIRECT ENTRY:</strong> UNILORIN accepts Unilorin Diploma in Administrative Management (Upper Credit) in addition to UTME requirements.</td>
</tr>
</tbody>
</table>
| PSYCHOLOGY | At least two (2) A Level passes in two (2) Social Science Subjects from Geography, Sociology, Economics, Business Management, Government.  
1. General Certificate of Education/IJMB  
A/Level NABTEB/NCE NOT ACCEPTABLE | Five O’ level credit passes in English Language, Mathematics, Biology and any two from the following social science subjects:  
Government, Economics, Geography, Commerce, Civic Educ., Social Studies. | UTME subjects should include English and any two social science subjects (Government, Economics, Geography, Commerce, and other one from Arts or Science) |
<table>
<thead>
<tr>
<th>SOCIAL WORK</th>
<th>a. B. Sc. (Hons.) in Social Sciences, Humanities or Nursing with at least a third Class degree.</th>
<th>At least five (5) credit passes including English Language, Mathematics, and one (1) Social Science, others subjects in Arts/Social Sciences/Science.</th>
<th>At least one Social Science</th>
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<tbody>
<tr>
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<td>b. Two A level subject passes in Social Sciences and Humanities in addition to UTME O’Level requirements.</td>
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<td>c. Registered Nurse Certificate (RN) plus UTME O’Level requirements</td>
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<td>d. Matured Social Workers with OND (Upper Credit) plus UTME O’level</td>
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<tr>
<td>FACULTY OF VETERINARY MEDICINE</td>
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<th>COURSE</th>
<th>REQUIREMENTS</th>
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<th>SPECIAL CONSIDERATION (WAIVER)/ REMARKS</th>
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</thead>
<tbody>
<tr>
<td>DIRECT ENTRY</td>
<td>UTME</td>
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</table>

- **SOCIOLOGY**
  - At least two A’ level passes in IJMB/GCE to include at least two Social Science subjects from the followings: Sociology, Geography, Economics and Government.
  - Five O’ level credit passes including English Language, Mathematics, at least two Social Science subjects from Geography, Government, Economics and one other.
  - English Language, Government/History and one Social Science Subject from Geography, Economics and any other

**DIRECT ENTRY**
- UNILORIN accepts UNILORIN Diploma (Upper Credit) in Social Admin. / Diploma in Crime Control and Management (Upper Credit) in addition to UTME requirements.
| VETERINARY MEDICINE | At least two A level passes (*with at least C grade*) in any of the following; Biology/Zoology, Chemistry and Physics in addition to meeting the O’ level requirements above  
At least a minimum of 8 point. | Five O’ level credit passes at not more than two sittings in English Language, Mathematics, Biology, Physics and Chemistry. | DIRECT ENTRY:  
i) *Special consideration may be given to candidates with Higher National Diploma in Animal Health and Husbandry, or Animal Production provided the diploma is passed at Upper credit level, in addition to meeting the O’ level requirements above.*  
ii) *Graduates of first degree in related Biosciences (Zoology, Biological Science, Animal Science or Production, Biochemistry, Microbiology, Anatomy, Physiology, Nursing, Medicine, with a minimum of second class Lower division,* in addition to meeting the O’ level requirements above.* |
## INSTITUTE OF EDUCATION

**B. A. (Ed.), B.Ed. and B. Sc. (Ed.) (Sandwich/Part-Time)**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Direct Entry</th>
<th>UTME &amp; O/L Subjects</th>
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</thead>
<tbody>
<tr>
<td>B. Sc. (Ed.) Mathematics, Physics</td>
<td>NCE in Mathematics, Physics A/L GCE/IJMB in Mathematics &amp; Physics</td>
<td>Candidates with NCE must have O’Level Credit Passes in GCE/SSCE/NECO/TC II/Equivalent in English Language, Physics &amp; Mathematics. A/L candidates must also have five O’Level credit passes in five subjects including English Language, Mathematics &amp; Physics</td>
</tr>
<tr>
<td>B. Sc. (Ed.) Chemistry, Biology</td>
<td>NCE in Chemistry, Biology, A/L GCE/IJMB in Chemistry &amp; Biology</td>
<td>Candidates with NCE must have five Credit Passes in O’Level GCE/SSCE/NECO/TCII/Equivalent including English Language, Biology, Chemistry and Mathematics; A/L candidates must have credits in five subjects including English Language, Mathematics, Biology/Chemistry</td>
</tr>
<tr>
<td>B.A. (Ed.) History</td>
<td>NCE in History or Political Science, Diploma in Public Administration, Law, Administrative Management, Mass Communication with at least Lower Credit. A/L GCE/IJMB in History or Government and any other Arts Subjects</td>
<td>Candidates with NCE must have five O’Level credit Passes to include English Language and Government/History. Candidates with Diploma or A/L GCE/IJMB must have credits in English Language, Government/History &amp; any three other subjects from Arts or Social Sciences</td>
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<tr>
<td>B.A. (Ed.) Arabic, Islamic Studies</td>
<td>NCE in Arabic/Islamic Studies and one Arts/Social Science Subject; Diploma in Arabic/Islamic Studies/Sharia with at least Lower credit. Two A/L/Passes to include Arabic or Islamic Studies</td>
<td>Candidates with NCE must have five O’Level, GCE/SSCE/NECO/TCII/SIS/Equivalent credit Passes in English Language and any other two Arts/Social Science subjects. Diploma and A/L candidates must have credits in English Language, Arabic/Islamic Studies and any other three Arts/Social Science subjects</td>
</tr>
<tr>
<td>B.A.(Ed.) Christian Studies</td>
<td>NCE in Christian Studies Two A/L Passes to include Christian Studies &amp; any other Arts or Social Science or Science subject. Diploma in Theology/Christian Studies with at least Lower credit</td>
<td>Candidates with NCE must have five O’Level credit Passes to include English Language and C.R.K. A/L and Diploma candidates must have five credits including English Language, C.R.K. &amp; other three Arts or Social Science subjects</td>
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<tr>
<td>B.Ed. Primary Education Studies</td>
<td>NCE in any Teaching subject. Two A/L Passes in relevant subjects</td>
<td>Candidates with NCE must have five O’Level credit Passes to include English Language and any other four subjects. A/L Candidates must have five credit passes including English Language</td>
</tr>
<tr>
<td>B.Sc.(Ed.) Economics</td>
<td>(a) NCE Economics, Geography, Political Science and Social Studies Plus O/L Credits in five subjects including English Language and Mathematics, Economics and any other two Social Science subjects</td>
<td>Candidates with NCE must have five O’Level credit Passes including English Language, Mathematics &amp; Economics. A/L candidates must have five credit Passes to include English Language, Government, Economics and Mathematics</td>
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<tr>
<td>(b) “A” Level passes in GCE/IJMB or Equivalents in any two of the following subjects: Economics, Government, Geography, Accounting, Plus O/L Credits in five subjects including English Language, Mathematics, Economics and any other two Social Science subjects</td>
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</table>
| B.Sc.(Ed.) Geography | (a) NCE Geography, Economics, Political Science and Social Studies plus O/L Credits in five subjects including English Language, Mathematics, Geography and any other two Social Science subjects.  
(b) „A” Level passes in GCE/IJMB or Equivalents in any two of the following subjects Economics, Political Science/Government, Geography, Accounting, Plus O/L Credits in five subjects including English Language, Mathematics, Geography and any other two Social Science subjects | Candidates with NCE must have five O’Level credit passes to include English Language & Geography. A/L candidates must have “O” Level Credit Passes including English Language, Geography and three other Social Science/Science subjects |
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<tr>
<td>B.A.(Ed.) English Language</td>
<td>NCE in two relevant subjects including English Language. Two A/L Passes in English Language and Literature in English</td>
<td>Candidates with NCE must have five O’Level credit passes to include English Language, Literature-in-English and one Arts Subjects. A/L candidates must have five O/Level credit passes to include English Language Literature-in-English and three other Arts and Social Science subjects.</td>
</tr>
<tr>
<td>B.A. (Ed.) French, Yoruba</td>
<td>NCE/Two A/L Passes to include Principal subject (French or Yoruba)</td>
<td>Candidates with NCE must have five O’Level credits to include English, French or Yoruba and any other Arts/Social Science Subject. A/L candidates must have five O’Level credit passes to include English Language, French/Yoruba &amp; any other three Arts and Social Science subjects.</td>
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<tr>
<td>B.Sc. (Ed.) Health Education</td>
<td>NCE in Physical &amp; Health Education, Home Economics, Science Education and Integrated Science. Two A/L Passes to include Biology. Any accredited Diploma, Nursing &amp; Midwifery, Health Management, Social Work, Health Technology, and Health Administration &amp; Environmental Health. Diploma in Health Records/Health Information Management and other Diplomas in Health related fields.</td>
<td>Candidates with NCE must have three O’Level credits to include English Language &amp; one O’Level Science subject. A/L candidates to have five credit passes to include English Language, one Science &amp; any other three relevant subjects.</td>
</tr>
<tr>
<td>B.Sc.(Ed.) Human Kinetics</td>
<td>(a) NCE/Dip/AL Merit passes in any of Physical and Health Education, Special Education, Science Lab Technology, Biology, Chemistry, Physics, Mathematics, Integrated Science, Health Science, Economics, Accounting, Geography, Government, Computer Science, Agricultural Science, Home Economics, and Integrated Science Fitness Instruction and Exercise Therapy, Sport Administration and Coaching, Sports Administration/Coaching of the NIS/other related institutions Nursing, Public Health and Health related areas; Social Work, Accounting, Data Processing, Banking and Finance, Mass Communication, Sports Journalism, Law; HND Science-based.</td>
<td>Candidates with NCE must have Five ‘O’ Level Credits/TC/II at Merit Level or its equivalence to include English Language, Mathematics and three other subjects which must include either two Science; or two Social Science/Arts Subjects with at least one science subject.</td>
</tr>
<tr>
<td>B.Ed. Educational Guidance and Counseling</td>
<td>NCE with at least one teaching subject in Arts/Social Science/Science subject. Two A/L passes to include one teaching subject in Arts/Social Science/Science subject.</td>
<td>Candidates with NCE must have five O’Level credits in English Language and any four Arts/Social Science/Science subjects. A/L candidates must have five O’Level credits in English Language and four others in Arts/Social Science/Science subjects. A Pass in Mathematics may be considered.</td>
</tr>
<tr>
<td>B.Ed. Educational Management</td>
<td>NCE with at least one teaching subject in Arts/Social Science/Science subjects. Two A/L passes to include one teaching subject in Arts/Social Science/Science subjects.</td>
<td>Candidates with NCE must have five O’Level credits in English Language and any four Arts/Social Science/Science subjects. A Pass in Mathematics may be considered.</td>
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</tbody>
</table>
Students are expected to combine Education with any of the following subjects: science, Mathematics, Yoruba, Christian Religious Studies, Islamic Religious Studies, and Social Studies. The following subjects are accepted for Social Studies: Economics, Geography, Government, History, Political Science and Social Studies.

| B.Ed. Educational Technology | NCE in Fine Arts, Vocational/Technology, Educational; Intro Tech; Computer Educational, Educational Technology, Integrated Science. Special Education; ND in A-V Technology; Elec./Mech./Civil Engineering, Fine/Applied Arts and Computer Education with specialization in Educational Technology. Two A/L passes in Mathematics & Physics | Candidates with NCE must have five O’Level credits including Mathematics & English Language. A/L candidates must have five O’Level credits in English Language, Physics and Mathematics and any two Science subjects from Agric. Science, Fine Art, Sciences, Voc./Technical subjects |

**STUDENTS’ REGISTRATION**

**REGISTRATION PROCEDURE FOR FRESH STUDENTS**

**STEP 1: BIO-DATA REGISTRATION**
1. Once you have been cleared, visit the University of Ilorin Website (www.unilorin.edu.ng) and click on the Undergraduate Portal link.

2. Click on the Login link on the Portal and login using your JAMB Registration Number as Login ID and Surname as your default password.

3. Fill the displayed Bio-data template carefully. You will be required to change your initial Password from your Surname to a new one which should be confidential and known to you alone. You are advised to choose a password that is difficult to guess but easy for you to remember. In case you forget your password, the password recovery is available online after payment of necessary charges. Please ensure that the spellings and arrangements of your names are correct because no change is allowed after Matriculation.

STEP 2: COURSE REGISTRATION

a. After the completion of the Steps above, click on Course Registration link to proceed with your course registration.

b. Print out your preliminary course registration form and forward to your Level Adviser, who should authenticate the courses you have selected before payment. Once you register for wrong courses you will need to use Add/Drop form to make amendment(s).

NOTE: Any Student who fails to authenticate the selected courses with the Level Adviser before payment, does so at his own risk.

c. After authentication, go back to the website and register as advised by your Level Adviser.

d. Your customized charges and levies would be displayed and you would be requested to make online payment for approved charges, using your ATM Verve or Master Card.

NOTE: Students are expected to pay the prevailing bank charges in addition to the main University charges and therefore, must ensure that there is enough balance in their bank account to accommodate the charges.
e. If payment is successful, you are to print the payment receipt and four copies of the final course form.

f. Present the copies to your Level Adviser and Faculty Officer for appropriate signatures and collect the original copy from the Faculty Office. Keep your copy safely as you would need it for your Examinations.

**PLEASE NOTE THAT YOUR REGISTRATION IS INCOMPLETE EVEN AFTER SUBMISSION ONLINE UNTIL YOUR FORMS ARE ENDORSED BY YOUR LEVEL ADVISER AND FACULTY OFFICER WITHIN THE REGISTRATION PERIOD.**

**ADD AND/OR DROP FORM**

**NOTE:** The form can be accessed after 3 weeks of registration. Processing of ADD/DROP Form is done on Semester basis and all procedures for actualizing ADD/DROP must be completed within the stipulated period.

**PROCEDURE FOR ADD/DROP**

Students who have concerns regarding registration (e.g. error in registration) can add or drop courses. This should be done online without downloading any form by the affected students. The concerned students are required to pay online and effect changes as recommended by their Level Adviser and as approved by the Head of Department. Students should note that ADD/DROP of courses should be done within the period stipulated online by the University as lateness will not be condoned.

1. **Adding of Courses**
   A student may add a course by completing the Add and Drop Form before the end of the third week of the semester in which the course is being offered.

2. **Dropping of Courses**
A student may drop a course or courses by completing the Add and Drop Form before the end of the fifth week of the Semester in which the course(s) is being offered. Any student who withdraws from a course without acceptable explanation after half of it has been given, shall be deemed to have failed the course.

All Registration and Add and Drop Forms must be duly signed by the Dean of the Faculty, the Head of Department and the Faculty Officer.

PAYMENT PROCEDURE

Students are to note that all payments shall be online and shall be through the use of ATM cards as indicated on the University Portal.
REGISTRATION PROCEDURE FOR RETURNING STUDENTS

1. Visit the Unilorin Website (www.unilorin.edu.ng) and click on the Undergraduate Portal link.

2. Click on Login link on the Portal and login using your Matriculation Number as Login ID and Surname as your Default password.

3. You are required to change your initial Password from your Surname to a new one which should be confidential and known only to you. You are advised to choose a password that is difficult to guess but memorable to you. In case you forget your password, the password recovery is available online after payment of necessary charges.

4. Please be mindful of the spellings and arrangements of your names during registration.

**NOTE:** If you are a student of the University of Ilorin and your name does not appear on the Good Standing List, interact with your Level Adviser to confirm your status.

GOOD STANDING

1. If you are in Good Standing or on Probation, click on Course Registration link and register for appropriate and relevant courses. You are to register for courses failed before registering for current level courses. Seek guidance from your Level Adviser.

2. Print out preliminary Course Registration Form and present to your Level Adviser, who should authenticate the courses you have selected before you make payment.

3. After authentication, go back to the website and register as advised by your Level Adviser.

4. Your customized charges and levies would be displayed and you would be requested to make online payment for approved charges, using your ATM Verve or Master Card.

**NOTE:** Students are expected to pay the prevailing bank charges in addition to the main University charges and therefore, must ensure that there is enough balance in their bank account to accommodate the charges.

5. If payment is successful, you are to print the payment receipt and four copies of the final course form.

6. Present the copies to your Level Adviser and Faculty Officer for appropriate signatures and collect the original copy from the Faculty Office.
Keep your copy safely as you would need it for your Examinations.

**NOTE:** Any Student who fails to authenticate selected courses before payment does so at his own risk. Once you pay and register for courses you are not expected to offer, you will need to use the Add/Drop form to make amendment(s).

**IF NOT IN GOOD STANDING**

If you are not in good standing, further instructions would be displayed as you may no longer be able to continue with your current programme. You are then advised to download a change of course form, on account of not being in good standing (where applicable). This attracts an online payment of Two Thousand Naira (₦2000.00) only or as may be reviewed by the University.

**Steps on Change of Course(s)**

1. Click on **Change of Course** link
2. Make online payment for Change of Course form on account of not being in good standing (provided you are qualified)
3. Download the form
4. Complete the form manually
5. Submit duly approved Transfer Form to the Directorate of Academic Support Services for processing and subsequent registration.
6. Applicants from the following Faculties with less than the required CGPA may transfer, on account of not being in good standing, to programmes for which they qualify:
   a. Basic Medical Sciences
   b. Clinical Sciences (Nursing), and
   c. Engineering and Technology
   d. Life Sciences (Optometry and VisionScience)
   e. Pharmaceutical Sciences
OTHER ISSUES

ADD AND/OR DROP FORM

NOTE: The form can be accessed after 3 weeks of registration. Processing of ADD/DROP Form is done on Semester basis and all procedures for actualizing ADD/DROP must be completed within the stipulated period.

Procedures for ADD/DROP

There are two procedures involved. The first is for students who are still within the range of 48 maximum credits and the other is for those seeking to register above 48 credits per session.

(A) Students Within the Approved Maximum of 48 Credits

Students who have concerns regarding registration (e.g. error in registration) can add or drop courses. This should be done online without downloading any form by the affected students. The concerned students are required to pay online and effect changes as recommended by their Level Adviser and approved the Head of Department. Students should note that ADD/DROP of courses should be done within the period stipulated online by the University as lateness will not be condoned.

1. Adding of Courses
   A student may add a course by completing the Add and Drop Form before the end of the third week of the semester in which the course is being offered.

2. Dropping of Courses
   A student may drop a course or courses by completing the Add and Drop Form before the end of the fifth week of the Semester in which the course(s) is being offered. Any student who withdraws from a course without acceptable explanation after half of it has been given, shall be deemed to have failed the course.

   All Registration and Add and Drop Forms must be duly signed by the Dean of the Faculty, the Head of Department and the Faculty Officer.

(B) Procedure for Additional Credit(s) Above the 48 Credits Limit

1. Payment for the Additional credit(s) is done at the prevailing cost, which must be online.
2. The form is printed online from the portal and manually completed. **Note that the permission of the Head of Department and approval of the Dean are required when you are adding above the maximum of 24 credits allowed per semester.**

3. The form is to be forwarded to the Deputy Registrar (Academic Support Services) through the Dean with a copy of Course Registration Form and payment receipt attached to the form and the approval of the Dean, as in (2) above.

4. After approval by Academic Support Services, changes requested will be effected and an alert will also be sent to the concerned student who should print a new Course Registration Form from the portal. This form supersedes the earlier one.

5. The approved Additional Credit Form; Payment Receipt and old Course Form must be attached to the new Course Form and forwarded to the Level Adviser and Faculty Officer for endorsement.

6. Please note that the Academic Support Services will not treat any request for more than 24 credits per semester, if all the requirements in (2) and (3) are not met.

**PLEASE NOTE THAT YOUR REGISTRATION IS NOT COMPLETE EVEN AFTER SUBMISSION ONLINE UNTIL YOUR FORMS ARE ENDORSED BY YOUR LEVEL ADVISER AND FACULTY OFFICER WITHIN THE REGISTRATION PERIOD.**

**PAYMENT PROCEDURE**

Students are to note that all payments shall be online and shall be through the use of ATM cards on the University Portal.
REGULATIONS GOVERNING FIRST DEGREE PROGRAMMES

1. Programmes of Courses shall be provided leading to the Bachelors Degrees to be denoted as:

<table>
<thead>
<tr>
<th>S/No.</th>
<th>Faculty</th>
<th>Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Agriculture</td>
<td>B.Agric., B.Sc., B.Aquaculture and Fisheries, B. Forestry and Wildlife</td>
</tr>
<tr>
<td>2.</td>
<td>Arts</td>
<td>B.A.</td>
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<tr>
<td>3.</td>
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<td>B.Sc.</td>
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<tr>
<td>4.</td>
<td>Clinical Sciences</td>
<td>MB;BS</td>
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<tr>
<td>5.</td>
<td>Communication and Information Sciences</td>
<td>B.Sc.</td>
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<td>8.</td>
<td>Environmental Sciences</td>
<td>B.Sc.</td>
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<td>9.</td>
<td>Law</td>
<td>LL.B</td>
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<td>10.</td>
<td>Life Sciences</td>
<td>B.Sc., OD.</td>
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<td>11.</td>
<td>Management Sciences</td>
<td>B.Sc.</td>
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<td>12.</td>
<td>Pharmaceutical Sciences</td>
<td>B.Pharm.</td>
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<tr>
<td>13.</td>
<td>Physical Sciences</td>
<td>B.Sc.</td>
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<tr>
<td>15.</td>
<td>Veterinary Sciences</td>
<td>DVM</td>
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</tbody>
</table>

Each of the degrees of the various Faculties shall be awarded with Honours or Pass, except the MB;BS, OD., B.Pharm., and DVM of the Faculties of Clinical Sciences, Life Sciences, Pharmaceutical Sciences and Veterinary Medicine which are not classified.
2. **Duration of Programmes**

<table>
<thead>
<tr>
<th>Faculty</th>
<th>UTME Admission</th>
<th>Direct Entry Admission</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
<td>Maximum</td>
</tr>
<tr>
<td>B.Sc. Agricultural Extension and Community Development</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Agriculture (B.Sc. Home Economics), Arts, Basic Medical Sciences, Communication &amp; Information Sciences, Education, Environmental Sciences, Life Sciences, Management Sciences, Physical Sciences and Social Sciences</strong></td>
<td>4 years</td>
<td>5 years</td>
</tr>
<tr>
<td>Agriculture (B.Agric., B. Aquaculture and Fisheries, B.Sc. Food Science), Clinical Sciences (B.NSc. Nursing Science) Engineering and Technology, Environmental Sciences, Law, and Pharmaceutical Sciences</td>
<td>5 years</td>
<td>6 years</td>
</tr>
<tr>
<td>Clinical Sciences (MB;BS), Life Sciences (OD. Optometry) and Veterinary Medicine</td>
<td>6 years</td>
<td>7 years</td>
</tr>
</tbody>
</table>

3. Instruction shall be by Courses, except the MB;BS in the Faculty of Clinical Sciences.

4. The courses are quantified into credits: Courses shall be assigned 1, 2, 3, 4, 5 or 6 credits. No course shall carry more than 6 credits except with special permission of Senate on the recommendation of the Faculty Board concerned.

5. (a) One credit shall be a series of 15 one-hour lectures or tutorials, or two hours of
seminar, or three hours of Laboratory or field work.

(b) A session consists of 2 semesters, each of 15 weeks of lectures

(c) Long vacation period is 12 weeks

6. (a) Undergraduate Courses shall be numbered as follows:

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<td>101</td>
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<td>501</td>
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<td>599</td>
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</tbody>
</table>

Students admitted through UTME or Remedial shall normally start with 101 – 199 courses, while those admitted with GCE “A” Level or approved equivalent shall normally start with 201 – 299 courses. Students admitted into the B. Agric. Extension and Community Development programme in the Faculty of Agriculture shall normally start from 301 – 399 courses.

(b) However, Direct Entry students may be required to take 100 level courses to satisfy specific programme requirements.

(c) Senate may, on the recommendation of the Faculty Board, permit a student to start at any other level.

7. Appropriate Pre-requisite and/or Concurrent requirements may be prescribed for courses.

8. A student shall take courses prescribed for his degree programme and approved by Senate on the recommendation of the Faculty Board.

9. (a) Every full-time student may register for not less than 15 or more than 24 credits per semester. However after due consideration, the Dean upon the recommendation of the student’s Academic Adviser may approve not more than 2 extra credits per semester for a student.

(b) Students who have any outstanding credits at the end of their Final Year should, in any subsequent semester during which they are enrolled in the University, register for not less than a minimum of 5 credits per semester including those allotted to any compulsory and /or required courses they might have failed.
10. **Deferment of Admission**: The University does not defer admission for candidates.

11. **Graduation Requirements**

   To be eligible for the award of a degree, a student, including MB;BS., must pass all prescribed courses including those earned in GNS 111, 112, 211, 212 and 311, and GSE 301.

<table>
<thead>
<tr>
<th>NOS.</th>
<th>Faculty</th>
<th>Department/Programme</th>
<th>UTME</th>
<th>Direct Entry</th>
<th>300 Level</th>
</tr>
</thead>
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<td></td>
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<td>2. Aquaculture &amp; Fisheries</td>
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<td>3. Forestry &amp; Wildlife</td>
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<td>4. Home Economics &amp; Food Science:</td>
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<td>*Food Science</td>
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<td>*Home Economics</td>
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<td>4. History &amp; International Studies</td>
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<td>5. Linguistics &amp; Nigerian Languages:</td>
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<td>* Comparative Studies</td>
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<td>Basic Medical Sciences</td>
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<tr>
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<tbody>
<tr>
<td>1.</td>
<td>Clinical Pharmacy &amp; Pharmacy Practice</td>
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<td>2.</td>
<td>Pharmaceutics &amp; Pharmaceutical Microbiology</td>
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<td>4.</td>
<td>Pharmacognosy &amp; Drug Development</td>
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<td>5.</td>
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<td>Physics</td>
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<td>7.</td>
<td>Statistics</td>
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| 14. | **Social Sciences** | 1. Economics  
2. Geography & Environmental Mgt.  
3. Political Science  
4. Psychology  
5. Public Administration  
6. Social Work  
7. Sociology |
2. Vet. Medicine  
3. Vet. Microbiology  
4. Vet. Parasitology and Entomology  
5. Vet. Pathology  
6. Vet. Pharmacology and Toxicology  
7. Vet. Physiology and Biochemistry  
8. Vet. Physiology and Pharmacology  
| 16. | Institute of Education |
Final Year Screening exercise

(i) The screening exercise should commence at the 300 level so as to enable students have enough time for screening before graduation;
(ii) The screening committee should present its report at least two weeks before the commencement of each semester examinations;
(iii) A new verification fee of N3,500 or such amount as agreed to at the parley between the University Administration and representatives of the students’ Union, as directed by Senate, be approved;
(iv) All copies of external results obtained for screening purpose be kept centrally in the Admission Office;
(v) A late verification fee of N1,500 shall be paid by students who are late for verification;
(vi) The time line during which a student should conclude verification shall not exceed one academic session following a student’s completion of academic graduation requirements.

12. Waivers for Overstayed Students with not more than two Outstanding Courses (not applicable to students who matriculated after 2011/2012 session)

Any student who had exhausted his year(s) of stay in the University but still falls short of normal graduation requirements, by NOT MORE THAN TWO COURSES will be processed for graduation with a Pass Degree irrespective of his CGPA.

13. Status of a Course

A course shall be classified as “Compulsory”, “Required” or “Elective” in a given degree programme of the University.

(a) Compulsory Courses:
These are courses within the student’s discipline which must be taken and passed. Marks scored will count towards graduation and student cannot graduate without passing them.

(b) Required Courses:
These are courses outside the student’s discipline, i.e. a Subsidiary course that must be taken and passed.

(c) Elective Courses:
These are courses within and/or outside a student’s discipline from which a student may select a number for the purpose of fulfilling the requirements for the award of the Degree. However, in order to graduate, a student must pass enough elective courses to meet the minimum number of Credits required for the award of the degree.
14. **Course Requirements**

Each student shall satisfy the specific requirements of his Degree Programme as contained in the Faculty entries.

15. **Transfer Cases**

a. The University will entertain cases of students wishing to transfer from the University as a normal expression of their choice.

b. The University also welcomes request(s) from candidates for transfer into her Programmes on the following conditions:

i. Suitability based on the prevailing Unilorin admission requirements at the year of admission into his previous University;

ii. Minimum CGPA of 3.00;

iii. Payment of the prevailing Transfer/Acceptance fee;

iv. Good conduct; and

v. Spend a minimum of two sessions in the University before graduation.

16. **Admission to and Withdrawal from Courses:**

(a) **Registration of Courses**

Registration for course or courses must be done during the first two weeks of the first semester. There is penalty for late registration.

(b) **Late Registration**

Late Registration closes at the end of the 4th week of the first Semester after which a student is deemed to have voluntarily withdrawn.

17. **Intra-University Transfer**
Only students who are not in good academic standing at the end of a Session shall be allowed to transfer to other programmes within the University, subject to the following guidelines.

(a) The maximum number of years a transferred student can spend on a programme shall be counted from the time he/she starts the new programme.

(b) The number of transfers a student can enjoy within the University shall not exceed one.

(c) A student transferring to a new programme must satisfy the basic admission requirements for the new programme at time of first registration, and take the package of courses prescribed for the new programme in order to meet the requirements for the award of the degree.

(d) Transfer shall only take place at the beginning of a new academic session.

(e) On the approval of a transfer (change of major subject) by the Head(s) of Department(s) and Dean(s) concerned, a letter shall be issued by the Registrar to the student and copied to the relevant Head(s) of Department(s) and Dean(s) indicating the transfer (change of major subject) that has been approved.

18. Continuous Evaluation
   i. Continuous assessment shall constitute at least 30% in theoretical questions and 40% in practical questions of the marks assigned to the course, except in some programmes (MB; BS., DVM. etc.) where the progressive assessment carries 50% of the overall marks assigned to a subject/course. However, Continuous Assessment which should be conducted at least twice before the Examination, will now carry a minimum of 40% with effect from 2015/2016 academic session.

   ii. Continuous Assessment should be carried out at least two (2) weeks before the commencement of Examination, this would ensure that students have a good opportunity to improve on their grades.
19. Examinations

(a) Each course shall normally be examined at the end of the semester in which it is completed. Not more than one course shall be examined in one paper.

(b) Examination shall last a minimum of one-hour (except for computer based courses which may vary as appropriate) and not more than three courses can be examined at the same level in a day.

(c) A pass letter grade in any course shall be one of the letters A, B, C, D and E while F denotes failure except in peculiar programmes.

(d) (i) A student can only repeat a course if he/she failed it on an earlier occasion, and
(ii) Where a course has been repeated, the Grade Points earned at all attempts shall count towards the Cumulative Grade Point Average.

(e) All grades must be uploaded onto the University portal and submitted through the Dean’s Office to the Academic Support Services not later than four (4) weeks after the examinations.

(f) Results of all courses including Computer Based Examinations (CBE) that involve External Examiners shall be released only after they have been approved by the External Examiner(s).

(g) For the regulations governing the conduct of examinations in the University, see relevant section on Conduct of Examination in this Academic Programme.

(h) Official Transcripts of examination shall be issued to students on request and payment of prescribed fees.
20. **Scoring and Grading System for 2014/2015 intake**
(a) One of the letter grades A, B, C, D, E and F shall be used in reporting a student’s performance in a course.

(b) Letter grade, where applicable, shall be assigned to percentage scores and carry grade points as tabulated below:

<table>
<thead>
<tr>
<th>Percentage Scores</th>
<th>Letter Grades</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 – 100</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 – 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 – 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>45 – 49</td>
<td>D</td>
<td>2</td>
</tr>
<tr>
<td>40 – 44</td>
<td>E</td>
<td>1</td>
</tr>
<tr>
<td>0 – 39</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

(c) Every course lecturer shall report a student’s performance in both marks and letter grades at the end of each semester.

   iii. Commencement of full implementation of the Four (4) Point Grading System as prescribed by NUC is with effect from the 2015/2016 academic session. Consequently, the pass mark for all courses including GNS and GSE will be 45% as well as a minimum Cumulative Grade Point Average (CGPA) of 1.50 for goodstanding. However, there are exceptions as contained in sections 22 and 23.

   iv. The new 4 Point Grading System will be reflected as follows:

<table>
<thead>
<tr>
<th>SCORE</th>
<th>LETTER GRADE</th>
<th>GRADE POINT</th>
</tr>
</thead>
<tbody>
<tr>
<td>70 and above</td>
<td>A</td>
<td>5</td>
</tr>
<tr>
<td>60 - 69</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>50 - 59</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>45 - 49</td>
<td>D</td>
<td>2</td>
</tr>
<tr>
<td>0 - 44</td>
<td>F</td>
<td>0</td>
</tr>
</tbody>
</table>

(d) **Grade Point Average (GPA)**

A student’s semester Grade Point Average (GPA) shall be computed by multiplying the Grade Point (GP) attained in each course by the course credit(s), and then summing these up and dividing by the total credits taken for the semester, where applicable.
21. Examiners

(a) (i) For each course, there shall be a panel of not less than three Internal Examiners. One of them shall normally be the Head of Department, who shall be designated the Chief Examiner and shall have overall responsibility for Examinations within the Department.

(ii) The Panel shall set, moderate the questions and mark the answer scripts. The computer-based examinations shall also be moderated. Panel members shall also jointly sign the draft question papers and the examination results before the latter are submitted to the Dean of the Faculty.

(iii) The absence of one member of a Panel shall not affect the validity of a draft question paper or an Examination Result.

(b) External Examiners shall be appointed to participate in the evaluation of all final year as well as other levels where applicable and submit a report on the same to the Vice-Chancellor coping both the Dean of Faculty and the Head of Department concerned.
22. Good Academic Standing

(a) For 100 Level Students

For a 100 level student to remain in good academic standing (i.e. not be advised to withdraw from the University) the following conditions must be satisfied:

(i) Student in the Faculties of Agriculture, Arts, Communication & Information Sciences, Education, Environmental Sciences, Law, Life Sciences, Management Sciences, Physical Sciences and Social Sciences as well as Nursing Science in the Faculty of Clinical Sciences must maintain a Grade Point Average (GPA) of at least 1.50 at the end of the academic year.

(ii) Students in Faculty of Engineering and Technology must have a Grade Point Average (GPA) of 2.00 and in addition must have passed at least 75% of the credit loading in each of Physics and Mathematics and at least 60% of the Credit loading in Chemistry.

(iii) Students in the Faculty of Basic Medical and Nursing Science must obtain a GPA of 2.00 at the end of academic year, except MB;BS students who must obtain a GPA of at least 3.00 as well as obtaining a weighted average of 50% in all subjects offered. However, students who scored less than 50% in not more than two courses, but still obtain a GPA of 3.00 will be deemed to still be in good standing.

(iv) At 100 Level, students of Optometry and Vision Science programme must have a GPA of 3.00 to be in good standing.

The pass mark for 200 Level courses and above is 50%, except for GNS and GSE courses which have 45% as pass mark. However, for a student to be in good standing, he must not fail more than two courses and must have a minimum CGPA of 3.00.

Any student with GPA less than 3.00 at the end of the academic year will be asked to withdraw from the department. Any failed course from 200 Level can be carried over to the next level as long as the credit load limit allows.

However, a student in Optometry will not be allowed to register for clinical courses without passing all the carried over course(s).

(v) At 100 Level, students of Nursing Science Programme must obtain Pass grades in Chemistry, Biology, Mathematics and Physics, plus any two other Science courses to qualify for 200 level (Pre-Clinical courses)
23. **Probation**

For 200,300 and 400 Level Students

(a) A student in the Faculties of Agriculture, Arts, Basic Medical Sciences, Clinical Sciences (Nursing Sciences), Communication & Information Sciences, Education, Engineering and Technology, Environmental Sciences Law, Life Sciences, Management Sciences, Physical Sciences and Social Sciences whose Cumulative Grade Point Average (CGPA) is below 1.50 at the end of a particular session shall be on probation for one academic year. For other Faculties/Programmes probation is as follows:

i. Pharmaceutical Sciences and Veterinary Medicine - CGPA less than 2.40
ii. Optometry & Vision Sciences - CGPA less than 3.00

**Fresh 200/300 level students, (including transferred students) shall not be on probation and shall be required to withdraw from the University.**

(b) A student on probation shall be so informed in writing by the Registrar through the Faculty Officer indicating the number of extra Grade Points the student needs to remove the deficiency in his academic records in order to be in good academic standing at the end of the “probationary period”.

(c) A student whose Cumulative Grade Point Average (CGPA) is found to be at least 1.50 at the end of a probationary period, shall be restored to normal student status and be informed in writing by the Registrar through the Faculty Officer.

(d) In the Faculty of Clinical Sciences, a medical student is allowed to repeat the year and subjects failed at all levels except 100 level.
24. Clarification
   (i) A fresh 100 level student who is not in good academic standing as specified in 22 above at the end of his 100 level shall be advised to withdraw from the University.
   (ii) A fresh 200 or 300 level student who is not in good academic standing as specified in 22 above at the end of his first year shall be advised to withdraw from the University.
   (iii) A fresh student who has been advised to withdraw from the programme because he/she fails to satisfy some other requirements for good academic standing and is absorbed into another programme at 200 level, shall be on probation if he/she is not in good academic standing at the end of his first year in the new programme.
   (iv) In the Faculty of Veterinary Medicine a student cannot carry over any course from 100 and 200 levels (i.e., Pre-Clinical phase) to 300 or 400 level (i.e., Para-Clinical phase) and from Para-Clinical phase to 500 or 600 level (i.e., Clinical phase).

25. Withdrawal
   A student whose Cumulative Grade Point Average is below 1.50 or 2.40 (as applicable to different programmes) at the end of the probationary period shall be advised to withdraw from the programme to which he was admitted.

   Faculty of Clinical Sciences
   i. Having repeated the year and the examinations, a student who fails the examinations will be required to withdraw from the medical programme at 200, 300 and 400 Final MB;BS Part I, Part II and Part III Resit Examinations:
      A student who fails in any subject in each of these final examinations shall be required to write the papers failed within three months of the initial attempt. Any student who fails the second attempt shall be required to repeat the year (including Clerkship and Progressive Assessment in the subject failed) before the third and final attempt. Thereafter if the student fails, he shall be required to withdraw from the Medical Programme. However, a student at Parts II and III shall be allowed an additional Resit Examination. Thereafter, if the student fails he then withdraws from Medical programme.

   Clarification
   Withdrawal here means withdrawal from a Programme rather than from a Faculty (except for fresh students who shall be advised to withdraw from the University) in accordance with the NUC directive on Minimum Academic Standards. This means that a student who is advised to withdraw from a programme may be absorbed into another programme even within the same Faculty/Department.
26. **Maximum Time Permitted for a Degree**
A maximum period of 5, 6, 7 or 8 years (as the case may be) is allowed for a 3, 4, 5 or 6 years’ degree programme respectively for the award of a classified degree or unclassified degree (as the case may be). In the Faculties of Clinical Sciences, Life Sciences (OD. Optometry) and Veterinary Medicine, a maximum period of 11 years is allowed.

**CLASS OF DEGREE** | **RANGE OF CGPA**
--- | ---
First Class Honours | 4.50 - 5.00
Second Class Honours (Upper Division) | 3.50 - 4.49
Second Class Honours (Lower Division) | 2.40 - 3.49
Third Class Honours | 1.50 - 2.39

27. **Classification of Degrees**
*Four classes of Degree* shall be awarded based on the Cumulative Grade Point Average as follows:

The MB;BS., B.Pharm., B.NSc., OD and D.VM degrees are not classified.

28. **Absence from University Examinations**
(a) A grade of Incomplete (I) shall be awarded in a course to a student who completed the course except that he/she was absent from final examination in that course. However, upon a written application, a student who has been absent from an examination with reasonable excuse (supported by a certificate issued by the Director of Health Services - if it is on the grounds of ill-health or *any proven cases of emergency*) may obtain permission of the Faculty Board to write a make-up examination.

(b) Any student who obtains permission of the Faculty Board to write a make-up examination must take the examination before the end of third week of the following Semester, thereafter change of grade from incomplete result would be made to reflect his new grade.

(c) A grade of Incomplete (I) shall revert to a Failure (F) by the end of the third week of the following Semester if the student has not applied for or has failed to obtain the permission of the Faculty Board for a make-up examination.
29. Regulations Governing Students’ Continuous Absence from the University

(a) A student, who absents himself from the University for upwards of six weeks in a semester without written official permission, shall normally be deemed to have withdrawn from the University.

(b) A student’s actual attendance at lectures, tutorials, practicals etc. is to be recorded. Any student who fails to attend up to 75% of any of the above shall not normally be allowed to sit for the examination in that course.

(c) Absence from an examination shall normally result in failure of the Course. However, upon a written application, a student who has been absent from an examination with reasonable excuse (supported by a certificate issued by the Director of Health Services, if it is on the grounds of ill-health or proven cases of emergency/accident) may obtain permission of the Faculty Board to write a make-up in the subsequent examination.
REGULATIONS GOVERNING THE CONDUCT OF UNIVERSITY EXAMINATIONS
1. GENERAL

Preamble
The University of Ilorin Act, Cap. 455, Laws of the Federation of Nigeria, 2010 (as amended) provides that it shall in particular, be the function of the Senate to make provision for the organisation and control of courses of study at the University, and of the examinations held in relation to those courses, including the appointment of Internal and External Examiners.

Definition of Terms
(a) University Examinations
University Examinations include semester, professional and other examinations involving the participation of the Department, Faculty and the Examinations Office.

(b) Continuous Assessment/Progressive Assessment
The term continuous assessment means course tests, practical works, tutorial and Other graded assignments done within the Department/Faculty where the course is being taught.

(c) Semester
A semester is one-half of an academic year as determined by Senate.

(d) Session
A Session consists of two semesters otherwise referred to as an Academic Year as determined by Senate.

(e) Course Credit
One Credit represents 15 hours of lecture/tutorial or 45 hours of practical work per semester.
Two Credits represent 30 hours of lecture/tutorial or 90 hours of practical work per semester.
Three Credits represent 45 hours of lecture/tutorial or 135 hours of practical work per semester and so on.

There are courses that are purely theoretical or practical, while some others are a combination of both.
2. ORGANIZATION OF EXAMINATIONS

A. Internal Examiners

For each course, there shall be a Panel of Examiners, which shall consist of not less than three (3) Internal Examiners. The Head of Department shall be designated the Chief Examiner. A Part-time Lecturer may be appointed an Examiner based on a special case made by the Head of the Department concerned. The Internal Examiners, for all courses in each semester, shall be appointed by Senate on the recommendation of the Head of Department and the Faculty Board concerned.

(i) The panel shall set and moderate the questions and mark the examination answer scripts. Panel members shall also jointly sign the draft question papers and the examination results before they are submitted to the Examinations Officer.

(ii) Each Faculty shall set up a Board of Examiners consisting of the Dean of the Faculty all the members of the Panel of Examiners in the Faculty and the External Examiners (where applicable). The Dean shall be the Chairman of the Board of Examiners and shall sign the provisional results.

(iii) The Departmental Examination Committee including the external examiner (where applicable) shall consider the results before forwarding same to the Faculty Board of Examiners.

(iv) Duties enumerated in (i-iii) above apply also to Computer Based Tests and Examinations.

(v) The Departmental Examination Committee, having received and considered reports of the panel of examiners, shall advise Senate through the Faculty Board of Examiners, on the results of the examinations in the Faculty and matters arising therefrom.
B. External Examiners

(i) Early in the Harmattan Semester of each Session, Senate shall, on the recommendation of the Faculty Board concerned, appoint at least one External Examiner for courses taken in the final year of a Degree, Diploma or Certificate Programme. In the case of the Faculty of Clinical Sciences, External Examiners shall be required to moderate the First Professional and Final MB;BS. Examinations (Part I, Part II and Part III).

For Veterinary Medicine – External Examiners shall be required to moderate questions and conduct Oral Examination for completed courses at both Harmattan and Rain semesters for 200 – 600 levels.

For Pharmaceutical Science – External Examiners shall also be appointed for oral examination of 400(PCP 401 and PCP 404) and 500(PCP 503 and PCP 506) level courses.

For the B.NSc, External Examiners shall be required to moderate the Registered Nurse Certificate (RN Examinations), Registered Midwife Certificate (RM Examinations) and Registered Public Health Nurse Certificate Examinations as provided for the relevant Professional Bodies. In addition, External Examiners shall be appointed by the University to moderate the final B.NSc. Examinations.

(ii) External Examiners shall be appointed annually and shall not serve for more than two years in the first instance renewable once. At the time of nomination of External Examiners, their titles and/or current academic appointments, degrees, relevant professional qualifications, and/or current University appointment shall be stated. An External Examiner shall normally be a Professor or in any case not below the rank of a Senior Lecturer or its equivalent from a recognized University/Research Institute.

(iii) There shall be at least one External Examiner from outside Nigeria per Faculty.

(iv) The External Examiners shall be paid such remunerations for their services as may be determined from time to time by Senate.

(v) The duties of External Examiners shall be to:
C. **Duties of Examinations Officer**

The Examinations Officer (who shall be based in the Registry) shall:

i. call for lists of External Examiners from the Faculties for the approval of Senate at the beginning of each session;

ii. call for lists of Internal Examiners from the Faculties at the beginning of each semester for the approval of Senate;

iii. write letters of appointment to approved External Examiners and make arrangements for their accommodation and payment of remuneration;

iv. convene as early as possible in the semester, at the instance of Chairman of Time-Table and Room Usage Committee, a meeting of Faculty Sub-Deans and Examinations Coordinators for coordination purposes, such as avoiding time-table and room usage clashes;

v. call for the order of examination materials at the beginning of each semester, acquire sufficient examination materials as required by Faculties and ensure sufficient stock for at least one Semester at any given time;

vi. acquire sufficient examination materials as required by Faculties and ensure sufficient stock for at least one semester at any given time;

vii. inform the Director of Health Services of the dates of examinations and request him to arrange for at least one University Medical Officer to be on call, for the purpose of attending to candidates for the whole period of the examinations;

viii. monitor the conduct of Entrance/Qualifying examinations for admission into relevant Certificate and Diploma Programmes;

ix. attend each Faculty Board of Examiner’s meeting to ascertain correctness of marks and application of University Regulations governing the Degree/Certificate/Diploma classification;

x. transmit the recommendations of the Faculty Board of Examiners on the results and matters arising therefrom to Senate for consideration

xi. issue comprehensive transcripts on behalf of the University to students and graduates of this University;

xii. make available to students and Chief Invigilators/Invigilators appropriate portions of the examination regulations through the Faculty Officer before each semester examinations;

xiii. request for, and publish the name of students who, even though duly registered for certain courses, are not eligible to take the examinations in those courses (see section on Eligibility);
D. Sub-Dean/Faculty Examinations Co-ordinator

Each Faculty shall have a Faculty Examination co-ordinator, who shall be elected/appointed by the Faculty, provided such elected or appointed Officer shall not be below the rank of a Senior Lecturer.

Duties

The Faculty Sub-Dean, in conjunction with the Faculty Officer, shall;

i. be responsible for the proper conduct of examinations taken in the Faculty;

ii. request Heads of Departments to submit, on prescribed forms, information on the examinations, including the list of courses to be examined during the semester for the purpose of preparing the examination time-table;

iii. request examination materials from the Examination Officer as soon as possible and take delivery of them at least two weeks before the commencement of the examinations;

iv. liaise with other Faculty Sub-Deans within the Time-Table & Room Usage Committee where necessary, for the purpose of co-ordination, such as avoiding examination time-table clashes for courses that cut across Faculties and making arrangements for examination venues;

v. prepare the time-table for examinations to be held in the Faculty. The Final Time-table shall be published on Notice Boards and the University/Faculty website for students’ information, at least three weeks before the commencement of the examinations. Where any alterations are made, affected students must be duly informed latest three (3) working days before the examination is held;

vi. obtain a list of academic staff from Heads of Departments, and prepare invigilation Schedule for the examinations in the Faculty and circulate it at least two weeks before the commencement of the examinations;

vii. mobilize Faculty and Departmental non-academic staff to assist in the day-to-day conduct of examinations in the Faculty;

viii. receive answer scripts from Chief invigilators and ensure that examiners sign for the answer scripts on collection.
E. Duties of Chief Examiner
The Head of Department, who shall normally be the Chief Examiner for all the courses to be examined in the Department, shall:

i. be the Chairman of the Departmental Panel of Examiners to consider results of all examinations conducted by the Department before they are forwarded to the Faculty Board of Examiners.

ii. be responsible for the production of question papers for courses to be examined in his Department in accordance with the regulations. Questions of all final year examinations in Degree Programmes shall be moderated by the External Examiners before Examinations can be conducted. At the end of each examination, the Chief Examiner shall deposit, with the Departmental Examinations Officer the moderated question papers.

iii. ensure that drafts are written legibly on the prescribed forms supplied by the Examinations Officer. The draft must contain all the necessary information and must be signed by at least one of the Internal Examiners concerned and the Chief Examiner;

iv. seal securely and keep custody of question papers until they are required.

v. Oversee the computation and loading of Final Year Results, prepare and publish the results of all courses, taught by the department for presentation to the Faculty Board of Examiners; and

vi. submit to the University Librarian three copies of each examination question paper at the end of each semester examinations (where applicable)
F. **Question Papers**
   i) All examiners shall strictly preserve the secrecy of question papers at all stages until the examination.
   ii) All courses shall normally be examined at the end of the semester in which they are offered except in the Faculty of Clinical Sciences.
   iii) The duration of written examinations shall range from a minimum of one hour to a maximum of three hours with the exception of practical courses.
   iv) The security of examination question papers shall be the joint responsibility of the Internal Examiners, Chief Examiner and the Faculty Sub-Dean.

G. **Eligibility**
   i) All students who are duly registered for courses in a given semester are eligible to sit for examinations in those courses except students in the following categories:
      a) a student who absents himself from the University for upward of six weeks in any semester without official permission. Such a student shall normally be deemed to have voluntarily withdrawn from the University;
      b) a student who fails to attend up to 75% practical/lecture hours; and
      c) a student on suspension for one reason or another.
   ii) The Examinations Officer shall request from Heads of Departments the names of students who are not eligible under the above regulations and the titles and code numbers of the courses concerned. The information must be received by the Examinations Officer for the semester and must be published by him to the students within one week of receipt.

H. **Examination Time-Table**
   i) Examination time-table shall be prepared by the Faculty Sub-Deans in liaison with the Examinations Officer within the Time-Table & Room Usage Committee
   ii) All Faculty Examinations Officers shall meet to prepare a workable Time table within the Time-Table & Room Usage Committee.
   iii) As far as possible, examinations for the same Faculty shall be scheduled for the same hall.
   iv) As far as possible, not too many courses shall be scheduled, to hold simultaneously in one hall.
   v) As far as possible, a student shall not normally be required to sit for more than two examinations on the same day.
I. Examination Accommodation
i. All University Examinations shall be held in halls, rooms or laboratories approved by the University.

ii. All Faculty Examinations Officers/Sub-Deans shall meet to arrange the usage of available halls, lecture rooms and laboratories/lecture theatres among the Faculties.

iii. Sitting arrangement should be made in such a way to make possible for the invigilators to reach candidates with ease.
   ii. A large clock or clocks from which time for the examination shall be determined shall be prominently displayed before and visible to all candidates.

J. Examination Materials
(a) The Examinations Officer shall arrange to supply and/or allow the use of the following materials:

i. formats for drafting examination questions;

ii format for score sheets;

iii. answer booklets and supplementary sheets, including graph papers, shall be regarded as security materials and treated as such. Answer booklets and supplementary answer sheets shall be perforated at the top left-hand corners;

iv. strings, stapling machines, pins, large envelopes and jackets;

v. a list of students registered for each course to be provided with the assistance of COMSIT;

vi. attendance register (to be endorsed by Invigilators); and

vii. four-figure table, statistical tables, chart tables, design aids and other authorized materials.

(b) Staff, students and any other persons found in unauthorized possession of these materials shall be liable to disciplinary action.
K. **Medical Attention**

At least two of the University Medical Officers shall be on call for the purpose of attending to sick students during the period of the examinations.
3. **CONDUCT OF EXAMINATIONS**

A. **Invigilation**

(i) **Appointment of Chief Invigilators/Invigilators:**
A list of academic members of staff in each Department shall be prepared by the Faculty Officer who shall forward same to the Faculty Examination Coordinator (Sub-Dean) who shall in turn prepare the Invigilation Schedule in such a way that for every examination venue there shall be a Chief Invigilator, preferably a Professor.

(ii) **Duties of Chief Invigilators**
The Chief Invigilator shall:

a) be responsible for the conduct of all the courses for examinations put under his care at any particular examination venue;

b) collect from the Sub-Dean (Faculty Examination Co-ordinator) or Departmental Examination Officer as the case may be, the question papers in sealed packets at least half an hour before the examination is due to start. The sealed packets of examination papers shall be opened in the presence of the students at the time appointed for the commencement of the Examination;

c) allow Examiners into the Examination Hall for as long as may be necessary in the first 30 minutes of the examination to correct possible error on the question papers;

d) ensure that students are properly searched before or during any University examination for items, materials, etc., which are prohibited;

e) ensure orderliness in the Examination Hall with the assistance of other Invigilators,. Seats shall be arranged and numbered according to the number of groups taking examinations at each particular time and candidates shall be in the hall 30 minutes earlier than the commencement of each examination. He, with the assistance of other Invigilators, shall ensure that candidates keep strictly to the seating arrangements to avoid confusion;

f) ensure that Invigilators exercise constant and vigilant supervision over the candidates;

g) ensure, with the assistance of the invigilators, that the attendance sheet is duly signed by each student;

h) ensure that silence is maintained by the students throughout the period of the examination. The only permissible way of attracting the attention of the invigilator shall be students’ show of their hands;

i) call the attention of students to the time, thirty minutes and five minutes before the close of the examination;

j) at the end of each examination, check with the assistance of other Invigilators, the students’ scripts against the signed attendance sheet and seal the scripts together with the attendance sheet and at least four copies of the question papers in special envelopes provided by the Senate and Examinations Office at the end of each examination. These packets shall be clearly identified as indicated on the envelopes. He shall deliver the sealed packets to the Faculty Examination Co-ordinator/Departmental Examination Officer (as the case may be) duly signed for;

k) make a report (using the prescribed forms) of cases of examination misconduct and other problems to the Dean concerned immediately such misconduct is detected. However, students involved in such acts of examination misconduct should normally be allowed to complete writing the
iii. Duties of Invigilators

Invigilators shall:

a) report to the Examination Hall thirty minutes before the commencement of the examination;
b) assist the Chief Invigilator in the discharge of his duties;
c) distribute question papers and necessary examination materials to candidates;
d) constantly watch the candidates to prevent any malpractice;
e) provide any legitimate aid immediately to any candidate who raises his hand to request for assistance;
f) ensure that no candidate enters the venue of the examination with materials other than those allowed for that examination;
g) search, with the assistance of Security Personnel, students before or during any University examination; and
h) collect answer scripts from the students, arrange, count, cross-check with the attendance register and hand them over to the Chief Invigilator for counter-endorsement.

iv) Disciplinary Action Against Erring Invigilators

Absence from or lateness to the examination hall by scheduled invigilators without permission or reasonable excuse, shall be a serious misconduct and shall attract appropriate disciplinary action. A report of such absence or lateness shall be made by the Chief Invigilator to the Dean of the Faculty through the Sub-Dean.
B1. Instructions to Students
i) Students shall always ensure that they acquaint themselves with the examination regulations and instructions;

ii) Students shall attend the examinations punctually. Admittance into the examination hall more than half an hour after the examination has started shall only be at the discretion of the Chief Invigilator.

iii) Students shall bring with them to the examination hall their own ink, pen, ruler, erasers and pencils and any other materials which are permitted by these regulations (as stated here under). Accordingly, students are warned in their own interest to ensure that lecture notes, text-books, jotters, bags, handsets and other prohibited items are not brought anywhere close to the examination venue.

iv) Students must sign the attendance register at the beginning of each paper.

v) Having signed the attendance register, no student shall leave the examination hall without submitting his answer script.

vi) No student shall leave the examination hall for whatever reason without informing the invigilator.

vii) While the examination is in progress, communication of any kind between students shall strictly be prohibited and any student found to be giving or receiving irregular assistance commits a misconduct, which shall attract appropriate sanction.

viii) Silence shall be observed in the examination hall. The only permissible way of attracting the attention of the Invigilator is by a show of the hand.

ix) Smoking in and around the examination hall is strictly prohibited.

x) The use of scrap paper is prohibited. All rough work shall be done in the answer booklet and crossed neatly through. Supplementary answer sheets which shall not be supplied until at least half-an-hour after the commencement of the examination shall be stapled to the main answer booklet.

xi) Students taking Mathematics or Engineering Drawing and similar courses shall bring their own mathematical or drawing instruments, which should include compass and dividers, protractors, diagonal scales and set squares. Personal copies of Mathematical Tables may be allowed in the examination hall provided there are no inscriptions on them.

xii) Before submitting their scripts at the end of the examination, students shall satisfy themselves that they have inserted at the appropriate places their matriculation numbers and the numbers of the questions answered. Except for the question paper and any other materials they may have legitimately brought with them (as indicated in rules (iii) and (viii) above), students shall not be allowed to remove or mutilate any paper or materials supplied by the University.
C. Examination Offences and Penalties

1. Code of Conduct

Students shall:

i. use or consult during an examination only such books, papers, instruments or other materials or aids as are specifically permitted or provided by the Department in which the examination is being held;

ii. not introduce or attempt to introduce into examination venue hand bags, books, notes, instruments (handsets, i-pad/i-pod, flash drives and any other storage device) or other materials or aids that are not permitted;

iii. not enter any examination venue with any inscription on any part of the dress or body e.g. palm, arm, thigh, etc. if such inscriptions bear any relevance to the examination;

iv. not pass or attempt to pass any information from one person to another during an examination;

v. neither act in collusion with any other candidate(s) or person(s) nor copy nor attempt to copy from another candidate, nor engage in any similar activity;

vi. not disturb or distract any other candidate(s) during the examination;

vii. only use their matriculation numbers for examination, (no names should be written);

viii. not be allowed to leave an examination venue until after 75% of the time allocated for that particular paper has expired;

ix. not write any University examination on behalf of others, nor other people write any university examination for them; and

x. ensure that he submit the answer script and any extra sheet to the invigilator before leaving the examination hall.

Failure to observe any of the rules (i) to (x) above, shall *prima facie* constitute examination misconduct.
2. Procedure for investigating Alleged Examination Misconduct

(a) At the discretion of the Chief Invigilator, a student may be required to leave the examination venue when his conduct is adjudged to be disturbing or likely to disturb the examination. The Chief Invigilator shall report immediately any such action taken to the Dean, through the Faculty Examination Co-ordinator (Sub-Dean), after the completion of the examination by the other students.

(b) Any student suspected of any examination irregularity shall be required to sign and submit to the Chief Invigilator a written statement in the Examination Hall. Failure to make a written statement shall be regarded as an admission of the charge against such a student. In any case, the students shall be allowed to finish his examination;

(c) The Dean shall, within 48 hours of receipt of a report, send it to the Faculty Examination Malpractice Committee comprising not less than three academic staff to investigate the charge(s) and make available a report along with their records of proceedings and all other exhibits within four (4) weeks through the Deputy Registrar (Academic Support Services) to the Registrar who shall forward same to the Students’ Disciplinary Committee; and

(d) The Students’ Disciplinary Committee shall within six weeks of receiving such a report, investigate and recommend the penalty in cases of proven misconduct to the Vice-Chancellor in accordance with section 17 of the University Act.
3. **Penalties**
   
   (i) Any candidate found cheating or aiding and abetting cheating in any examination shall be expelled from the University;

   (ii) In a situation where an individual, not registered for a particular course writes an examination on behalf of a student, he shall be handed over to the Law Enforcement Agents, if he is from outside the University, while the student so helped shall be expelled from the University. Where the individual is a student or staff, he and the student so helped shall be expelled or dismissed from the University **(as the case may be)**

   (iii) In a situation where a student sits for an examination in a course not registered for, no score shall be recorded for such a student.

4. **Examination Leakage**

   Where the Dean has reason to believe that the nature of any question or the content of any question paper may have become known before the date and time of the examination to any person(s) other than the Examiners and any Official of the University authorized to handle the question paper, he may order the suspension of the examination or the cancellation of the question paper or the setting of a new paper. He shall then investigate the leakage and report the matter to Senate through the Vice-Chancellor.
D. Absence from Examinations

(i) **Students** shall present themselves at such University Examinations for which they have registered under these Regulations. **Students** who fail to do so, for reasons other than proven ill-health, accident or any proven emergencies shall be deemed to have failed that examination. Mis-reading/ignorance of the Time-Table and such other excuses shall not be accepted as a satisfactory explanation for absence.

(ii) A student who falls ill during an examination period should report in writing to the Dean of his Faculty through his **Head of Department**.

(iii) A student who is absent from an examination on account of ill-health confirmed by medical report from the Director of University Health Services may be given a make-up examination in the course(s) missed, based on guidelines approved by Senate. **Otherwise, he shall take the regular examination on the following occasion as his make-up.**

(iv) Approval for make-up examination shall be by the Faculty Board, provided:

(a) **the ill-health has been reported to the Dean through the Head of Department; and**

(b) **the student has obtained a written report from the Director of Health Services or his designate which either is dated prior to the end of the examination, or provides evidence that the student was hospitalized during the examination.**

(v) **Application** for make-up examinations shall normally be made **immediately at the end of the semester examinations.**

(vi) make-up examination shall normally be concluded within the first five (5) weeks of the semester following the application for the **make-up.**
E. Determination of Result

i. General
A student shall be deemed to have passed a first-degree examination if he has satisfied Senate in all the requirements for the examinations (including all GNS & GSE courses). A student who had been referred in any of these requirements shall be deemed to have passed that examination when he has fulfilled the requirements.

ii. Pass Mark
The pass mark shall be 40% in all Faculties, except the MB;BS. and B.NSc. Programme of College of Health Sciences, DVM Programme in the Faculty of Veterinary Medicine, B.Pharm. Programme in the Faculty of Pharmaceutical Sciences and Doctor of Optometry (OD) programme in the Faculty of Life Sciences where it shall be 50%.

iii. Make-up Examination
A Make-up Examination is an examination specially arranged for a student or group of students who could not sit for the normal examination due to ill-health or any other unavoidable circumstances as specified in d(i) above. Each case will, however, be treated on its merit. Following the conclusion of such examinations (normally within the first five (5) weeks of the new semester) the updated good standing result of such candidate shall be processed through the Deputy Registrar (Academic Support Services) to Senate for approval.

iv. Procedure For Result Verification
(a) The student completes online “Result Verification Form” available on the University website.
(b) The student submits the form to his Head of Department for onward transmission to the Deputy Registrar (Academic Support Services)
(c) The HOD, within one week, shall issue to the student, the verified result either confirming the old score or reflecting the new one. A copy shall also be forwarded to the Deputy Registrar (Academic Support Services).
(d) Where a review occurs, the HOD is under obligation to give reasons and forward a copy of the Verification Report through the Dean to the: Director of Academic Planning and Deputy Registrar (Academic Support Services)
(e) In case the student is still not satisfied with the result, he shall obtain a Re-mark Request Form from the Deputy Registrar (Academic Support Services). The Form shall be filled and submitted to the same office.
UNIVERSITY OF ILORIN, ILORIN, NIGERIA
ACADEMIC OFFICE
RESULT VERIFICATION FORM

(Visit www.unilorin.edu.ng/Portal and study the procedure for Re-mark).

(i) Name of Student:………………………………………………………………………

(ii) Faculty: …………………………………………………………………………………

(iii) Department: …………………………………………………………………………..

(iv) Programme: ……………………………………………………………………………

(v) Level: ……………………………………………………………………………………

(vi) Matric. No: ……………………………………………………………………………

(vii) Session: ………………………………………………………………………………

(viii) Semester: ……………………………………………………………………………

(ix) Date of Examination: ………………………………………………………………..

(x) Course Code & Title: …………………………………………………………………

(xi) Student’s Phone No: …………………………………………………………………

(xii) Student’s e-mail Address: ……………………………………………………………

(xiii) Complaint: ……………………………………………………………………………

…………………………………………………………………………………………

…………………………………………………………………………………………

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(xiv) Signature of Student & Date: ………………………………………………………

…………………………………………………………………………………………
For Official Use Only

(i) **Date and Time Received** in the Department: ____________________________

(ii) HOD’s Comment/Verification: _________________________________________

(iii) Signature of HOD & Date: _____________________________________________

(iv) Date and **Time Received** by the Dean: _________________________________

(v) **Date and Time** Form is returned to the **Deputy Registrar (Academic Support Services)**
THE GUIDELINES ON SUSPENSION OF STUDIES BY STUDENTS

a. student can be allowed to suspend his study for a semester or session;

b. application for suspension of study shall normally be made before the commencement of the semester or session for which approval is sought.

c. a student wishing to suspend his study shall obtain the designated application form for Suspension of Study from the University Portal;

d. Such application for suspension of studies shall be processed through the Faculty Board for Senate approval

e. following Senates approval of the Faculty Board’s recommendation, the Registrar shall communicate the decision to the candidate;

f. no student can have his study suspended for more than one session at a time. However, upon expiration of the first session the student can re-apply on proven conditions e.g. national assignment; and

g. Upon the expiration of the period for which the study has been suspended, the candidate shall be required to obtain and fill the appropriate Reactivation of Study Form from the Academic Office.

4. SENATE DECISIONS ON IMPROVEMENT OF THE CONDUCT OF EXAMINATIONS IN THE UNIVERSITY
A. Short-Term Measures

(i) Investigation of and Penalties for Examination Misconduct

a. Any student established to be in possession of incriminating materials at the examination or involved in any other examination malpractice before, during or after an examination, including impersonation, shall be expelled from the University.

b. The procedure of investigation shall be reviewed to ensure prompt treatment of all cases of examination malpractice to avoid delay in disposing reported cases. In this connection, each Faculty shall properly set up a Standing Committee to investigate reported cases of examination misconduct immediately after each Semester Examination such that all reports are received by the Registrar four weeks after examination.

c. The Students’ Disciplinary Committee shall treat prima facie cases within six weeks of receipt of reports from Faculties.

d. All students suspected to be in any examination misconduct during any semester examination shall be required, in writing, to remain on campus after the semester examination to facilitate the process of investigation.

(ii) Handling of Answer Booklets:

(a) Every Faculty must ensure that all answer sheets for examinations carry the Faculty stamp and date of the examination. Any extra sheets given out must also be stamped as well. All Faculties must ensure that all answer scripts must carry the Faculty names.

(b) Answer booklets shall be treated as security materials and shall be numbered serially, while it shall be an offence for anyone whether staff or students to put it to other use than it is meant for.

(c) Invigilators must ensure that students write their matriculation numbers clearly on the answer booklets immediately before the commencement of the examinations to prevent swapping of booklets during and after the examination.
(d) All answer sheets for examination are those produced for the Faculty and bears the Faculty’s name.

(iii) Examination Invigilation

(a) Course Lecturer shall not normally be made to invigilate the examinations of their courses;

(b) Invigilators must properly check-in students to the examination hall and be satisfied that no student brings prohibited materials into the examination hall/room;

(c) Chief Invigilators must report through the Faculty Sub-Dean all cases of examination misconduct to the Dean within forty-eight (48) hours;

(d) There shall be at least two Invigilators per hall/room and at no time should they both leave the hall or room at the same time.

(e) Erring Invigilators shall be administratively dealt with.

(iii) Other Precautions:

(a) After all students have been seated in the examination hall and question papers distributed, no student shall be allowed to leave the examination hall without being accompanied by a staff member;

(b) No student shall be allowed to leave the examination hall within the first thirty minutes of the examination or fifteen minutes to the end of the examination;
(c) Students shall be required to place on the table, their Faculty examination card and University Identity Card for Invigilators’ inspection at any time during the examination;

(d) Sitting arrangement in the examination hall shall be at the discretion of the invigilators who shall engage means of breaking up organized sitting arrangements; and

(e) The services of University Security Personnel shall be enlisted during the period of examinations to prevent unauthorized visitors from roaming about the examination halls/venues.

B. **Long Term Measures:**

i) Provision of adequate accommodation and furniture for examination will be looked into;

ii) Efforts will be made to provide adequate number of equipment and specimen to discourage sharing:

iii). Each course Lecturer shall be provided information as to the number of students who have registered for course(s) assigned to him or her. This measure will allow the Lecturer to have the correct number of students who registered for a course and are expected to write examination in the course. It will also prevent students who are not properly registered for the course or fake students from sitting examination in the course. Also, regular attendance at lectures shall be closely monitored in order to encourage regular class attendance.

iv) Where it is needed, Senior Non-academic staff could be considered for examination invigilation with appropriate remuneration.
UNIVERSITY OF ILORIN, ILORIN, NIGERIA

ACADEMIC OFFICE

RE-MARK REQUEST FORM
(Visit www.unilorin.edu.ng/Portal)

(i) Name of Student: .................................................................
(ii) Faculty: ........................................................................
(iii) Department: .................................................................
(iv) Programme: ....................................................................
(v) Level: ............................................................................
(vi) Matric No: ......................................................................
(vii) Session: ........................................................................
(viii) Semester: ......................................................................
(ix) Date of Examination .....................................................
(x) Course Code/Title: ...........................................................
(xi) Student’s Phone No: ......................................................
(xii) Student’s e-mail Address: ..............................................
(xiii) Complaint .................................................................
                               .................................................................
                               .................................................................
                               .................................................................
(xiv) Pledge: That a sum of N50, 000 shall be paid for this form, refundable only if the student’s claim is not found to be frivolous.
(xv) Student’s Signature & Date .............................................

FOR OFFICIAL USE ONLY

i) Date received: .................................................................

ii) Date script was remarked: ..............................................

(a) New Score: .................................................................

........................................................................................
........................................................................................
FACULTY OF ARTS

Dean’s Office

A. Akinwale  B.A., M.A., Ph.D. (Ibadan)  Professor & Dean
A. Abubakar  B.A. (BUK); M.A., Ph.D. (Ilorin)  Sub-Dean & Senior Lecturer
DEPARTMENT OF ARABIC

A. A. Abdussalam B.(Ed.) (IUA Khartoum); M.A., Ph.D. (Ilorin) Senior Lecturer & Ag. Head

Z. I. Oseni B.A., M.A., Ph.D. (Ibadan) Professor

R. D. Abubakre B.A. (Ibadan); Ph.D. (London) Professor

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Assistant Lecturer

M. D. Musa  
B.A. (Al-Hikma)  
Assistant Lecturer

**DEPARTMENT OF ENGLISH**

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Professor

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Professor

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Professor

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Reader

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M. O. Durosinmi  B.A. (ABU)  Graduate Assistant
U.E. Inyang  B.A. (Uyo)  Graduate Assistant

DEPARTMENT OF FRENCH

I. Bariki  B.A. (OAU); M.A. (Ibadan); PGDE, Ph.D. (Ilorin)  Professor & Head
T. Ajiboye  B.A. (Ibadan); Ph.D. (Nancy)  Professor
Yetunde Oluwafisan  B.A. (Ilorin); M.A., Ph.D. (Lagos)  Senior Lecturer
Y. O. Tijani  B.A. (OAU); M.A. (Niamey); Ph.D. (Ilorin)  Senior Lecturer
Elizabeth D.A.M. De Campos  B.A., M.A., Ph.D. (Ibadan)  Senior Lecturer
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
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<tbody>
<tr>
<td>Oyebola, M.O.A.</td>
<td>B.A. (Ife), M.A. (Toronto), Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>Sanni-Suleiman, Afsat</td>
<td>B.A. (OAU); PGDE, M.A. (Ibadan); Ph.D. (Ilorin)</td>
<td>Lecturer I</td>
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<tr>
<td>Oyelabi, O.</td>
<td>B.A., M.A. (Ilorin)</td>
<td>Lecturer I</td>
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<tr>
<td>I. Isa</td>
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<td>Assistant Lecturer</td>
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<tr>
<td>Dongmo, Adelaide</td>
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<tr>
<td>Abdulmalik, I.</td>
<td>B.A., M.A. (Zaria)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>Oguike, G.</td>
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<td>Assistant Lecturer</td>
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<tr>
<td>Yusuf, Temitope</td>
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<tr>
<td>K.D. Aiyedun</td>
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<tr>
<td>Eyinla, B.M.</td>
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<tr>
<td>Olaoye, R.A.</td>
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<tr>
<td>Aghalino, S.O.</td>
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<tr>
<td>Adebayo, P.F.</td>
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<td>Senior Lecturer</td>
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<tr>
<td>Jawondo, I.A.</td>
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<tr>
<td>Omoiya, Y.S.</td>
<td>B.A. (Ilorin); M.A., M.Phil. (Ibadan); Ph.D., (Ilorin), Dip. in African Studies</td>
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<tr>
<td>Odeh, L.E.</td>
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<tr>
<td>Ige, E.J.</td>
<td>B.A., M.A. (OAU)</td>
<td>Lecturer 1</td>
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<tr>
<td>Theresa N. Odeigah</td>
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<td>J. A. Aboyeji</td>
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<td>R. Onagun</td>
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<tr>
<td>K. A. Rafiu</td>
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**DEPARTMENT OF LINGUISTICS AND NIGERIAN LANGUAGES**

<table>
<thead>
<tr>
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<td>H. O. Adeosun</td>
<td>B.A. (OOU); M.A.(Ibadan); M.A., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>Bolanle E. Arokoyo</td>
<td>B.A., M.A., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>K. A. Rafiu</td>
<td>B.A., M.A., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<td>Name</td>
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<tr>
<td>B. Adekeye</td>
<td>B.A., M.A. (Ilorin); Ph.D (EKSU)</td>
<td>Lecturer I</td>
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<tr>
<td>O. D. Ogunlola</td>
<td>B.A. (Ed) (Ibadan); M.A. Ph.D. (Ilorin)</td>
<td>Lecturer I</td>
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<tr>
<td>J. O. Friday-Otun</td>
<td>B.A. (Jos); M.A. (Ilorin); Ph.D. (Ibadan)</td>
<td>Lecturer I</td>
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<tr>
<td>Saudat A. O. Hamzat</td>
<td>B.A. (OAU); M.A. (Ibadan); M.A. (Ilorin)</td>
<td>Lecturer I</td>
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<td>B. Adekeye</td>
<td>B.A., M.A. (Ilorin); Ph.D (EKSU)</td>
<td>Lecturer I</td>
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<tr>
<td>O. C. Omolewu</td>
<td>B.A., M.A. (Ilorin)</td>
<td>Lecturer II</td>
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<tr>
<td>S. O. Abubakre</td>
<td>B.A., M.A. (Ibadan)</td>
<td>Lecturer II</td>
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<tr>
<td>J. A. Atoyebi</td>
<td>B.A. (OAU); M.A. (Ibadan)</td>
<td>Lecturer II</td>
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<tr>
<td>O. T. Okewande</td>
<td>B.A. (Ilorin)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Rema O. Adeyemi</td>
<td>B.A. M. A. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Florence C. Nwosu</td>
<td>B. A. M. A. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>Mary C Amechi</td>
<td>B. A. M. A. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Sabina N. Nwokeji</td>
<td>B. A. (ED) (UNN) M. A (Unilag)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Waziri A. S</td>
<td>B. A. (ABU)</td>
<td>Graduate Assistant</td>
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**DEPARTMENT OF THE PERFORMING ARTS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Position</th>
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<tbody>
<tr>
<td>S. O. Ikibe</td>
<td>NCE, B.A. (UNN); M.A. (Ibadan); Ph.D. (Ilorin)</td>
<td>Senior Lecturer &amp;Ag. Head</td>
</tr>
<tr>
<td>E. O. Kofoworola</td>
<td>B.A. (Ibadan); M.A., Ph.D. (ABU)</td>
<td>Professor</td>
</tr>
<tr>
<td>A. Akinwale</td>
<td>B.A., M.A., Ph.D. (Ibadan)</td>
<td>Professor</td>
</tr>
</tbody>
</table>
A. A. Adeoye  B.A., MPA. (Ilorin); M.A., Ph.D. (Ibadan)  Reader
J. O. Ojuade  B.A. (Ilorin); M.A., Ph.D. (Ibadan); LLB. B.L., MBA. (Ilorin)  Senior Lecturer
A. Emielu  B.A. (Ilorin); M.A. (Ibadan); Ph.D. (Ilorin)  Senior Lecturer
S. O. Oyewo  B.A. (Jos); M.A., Ph.D. (Ibadan)  Lecturer I
A. G. Adegbite  B.A., M.A. (Ilorin)  Lecturer I
Saidat O. O. Shuaib  B.A., M.A., Ph.D. (Ilorin)  Lecturer I
P. S. Arinde  B.A, M.A, Ph.D. (Ilorin)  Lecturer II
O. Ojediran  B.A, M.A. (Ilorin); Ph.D. (Edinburgh)  Lecturer II
T. S. Adeola  B.A., M.A. (OAU)  Lecturer II
F. A. Akinsipe  B.A. (Ilorin); M.A. (Ibadan)  Lecturer II
A. A. Amali  B.A. (Maiduguri); M.A. (Ilorin)  Lecturer II
K. A. Olalusi  B.A., M.A. (Ilorin)  Assistant Lecturer
T. A. Olalusi  B.A. (Ilorin)  Graduate Assistant
H. K. Rufai  B.A. (Ilorin)  Graduate Assistant

DEPARTMENT OF RELIGIONS

Oyeronke Olademo  B.A., M.A., Ph.D. (Ilorin)  Professor & Head
Y. A. Quadri  B.A., M. Phil., Ph.D. (Ibadan)  Professor
I. O. Oloyede  B.A, M.A., Ph.D., PGDE (Ilorin)  Professor
Y.O. Imam  B.A., M.A. (Jos); Ph.D. (Ilorin)  Professor
B. O. Yusuf  B.A., M.A., Ph.D. (Ilorin)  Professor
R. W. Omotoye  B.A., M.A. (OAU); Ph.D. (Ibadan)  Professor
H. A. AbdulSalam  B.A., M.A., Ph.D. (Ilorin)  Reader
P. O. Abioje  B.Th. (Rome), M.Th., Ph.D. (Calabar)  Senior Lecturer
O. R. Ogunade  B.A. (LASU); M.A., Ph.D. (Ilorin)  Senior Lecturer
C. O. Ogunkunle  M.A. (Winnipeg); B.Th.(Kitchener); Ph.D. (Ibadan)  Senior Lecturer
R. I. Adebayo  B.A., M.A., Ph.D. (Ilorin)  Senior Lecturer
A. Y. Imam  B.A. (BUK); M.A., Ph.D. (Ilorin)  Senior Lecturer
A. G. Alamu  B.A. (AAU); M.A. (Ibadan); Ph.D. (Ilorin)  Senior Lecturer
Abiola T. Dopamu  B.A., M.A., Ph.D. (Ilorin)  Senior Lecturer
O. O. Ogunbiyi  B.A., M.A. (Ilorin)  Lecturer I
A. S. Agboola  B.A., M.A. (Ilorin)  Lecturer I
Olubusola B. Akinfenwa  B.A. (Ilorin); M.A. (Ibadan)  Lecturer I
P. U. Nwosu  B. Phil. (Rome), M.A. (Ilorin), PGDE  Lecturer I
Moji B. Daramola  B.A., M.A. (Ilorin)  Assistant Lecturer
A. O. Fahm  B.A., M.A. (Ilorin)  Assistant Lecturer
M. S. Hussein  B.A. (Kuwait); PGD, M.A. (Ilorin)  Assistant Lecturer

DEPARTMENT OF ARABIC

Course Description
B.A. Arabic

ARA 121  Intermediate Arabic Grammar  2 Credits
Grammar of the Arabic language involving inflections. Factors governing grammar of Arabic, asma, ‘af’al, and huruf. Types of sentence as well as the subjective (al-Mansubat and Appositives (at-Tawabi)).
30h (T); C

ARA 122  Introduction to Arabic Composition I  2 Credits
Principles, rudiments, theories, and types of Arabic composition. Oral and written aspects of the composition in simple short Arabic sentences including school activities, life in the village, a football match, public holidays, importance of computer, auto mobile, teller machine spot, university auditorium, writing of curriculum vitae.
30h (T); C

ARA 123  Arabic Reading skills I  2 Credits
Students reading, note taking, note-making, summarizing and using the library, and dictionary. Intensive illustration and testing level of comprehension.
30h (T); C

ARA 124  Translation Drills  2 Credits
Translation of at least 10 prose of about 200 words each and 5 poetry passages into English from Arabic and vice-versa. Passages to cover both classical and modern Arabic.
30h (T); C

ARA 125  Introduction to Arabic Literature  2 Credits
Basic concept of Arabic literature. Basic components; imagery and music. Literary creation and literary appreciation. Relevant Arabic text will be used for illustration. Arabic literature different literary period. Outstanding characteristic of the literary figure in each periods.
30h (T); C

ARA 126  Introduction to Morphology  2 Credits
Arabic Morphology as basis of understanding vocabulary items in the language. Basic Arabic Morphology, structural formations and composition of words. Morphological forms, naked compound forms the source and derived forms and defective verbs.
30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARA 127</td>
<td>Introduction to Islamic Literature (al-Adabul-Islami)</td>
<td>2</td>
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<tr>
<td></td>
<td>Historic Islamic literature, theories, characteristics and features. Critical issues on <em>al-Adabil Islami</em>. Selected poetry and prose works reviewed for practical purpose.</td>
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<tr>
<td>ARA 128</td>
<td>Language Drills</td>
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<td></td>
<td>Consolidation of various verbs, nouns and particles with emphasis on objects <em>(maf’ulat)</em> verbal and nominal sentences. Extensive reading comprehension exercises.</td>
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<td>ARA 141</td>
<td>Beginners’ Arabic Conversation I</td>
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<td></td>
<td>Basic vocabulary of Arabic language. Simple sentence formation, short story-telling in Arabic.</td>
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<td>ARA 142</td>
<td>Beginners’ Arabic Conversation II</td>
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<tr>
<td>ARA 143</td>
<td>Beginners’ Arabic Reader I</td>
<td>2</td>
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<tr>
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<td>Arabic alphabet, word and sentence construction. Reading and writing of fully vocalized short passages.</td>
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<td>ARA 144</td>
<td>Beginners’ Arabic Reader II</td>
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<tr>
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<td>Reading, writing of fully vocalized long passages, short stories and essays in Arabic.</td>
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<td>ARA 145</td>
<td>Beginners’ Arabic Grammar</td>
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<tr>
<td></td>
<td>Essential grammatical features of standard Arabic: nouns, verbs, pronoun and particles.</td>
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<tr>
<td>ARA 222</td>
<td>Reading Skills II</td>
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<td>Reading and comprehension of at least 20 long sparsely vocalized Arabic passages. Emphasis on classical and modern literary texts.</td>
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<td>ARA 223</td>
<td>Arabic Composition II</td>
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<td>Oral and written presentation in standard Arabic.</td>
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</table>
ARA 224  Introduction to Translation Study  2 Credits
Principles of translation. Theories of translation from and into Languages with particular reference to Arabic and English translation procedure: literal, borrowing, calque, transposition, modulation equivalence, adaptation, copious illustration of each.
30h (T); C

ARA 225  Pre-Islamic Arabic Literature  2 Credits
Pre-Islamic (Jahili) literature. Historical background of Ashabu’l - Mu’allaqat and orators of the era. Representative texts of major literary figures of the period.
30h (T); C

ARA 226  Arabic Literature of the Early Islamic and Umayyad Periods.  2 Credits
Literary works and prose. Khutab (public speeches) and poetry of the periods, of one of the seven odes. Short poems from: Mufaddaliyat and Hamasah A (Jamhara excluded). Style of the Qur’an and the Hadith literature.
30h (T); C

ARA 227  The Art of Speech-Making in Arabic  2 Credits
Techniques, theories of speech-making in Arabic. Practical demonstration by students. Grammar, vocabulary, idioms, and quotations from Classical Arabic works.
15h (T), 45h (P); C

ARA 228  Arabic Syntax I  2 Credits
Arabic Syntax. Types of sentences and aspects of verbs, nouns and particles. Sharh bn ’Aqil should be used.
30h (T); C

ARA 229  Arabic Morphology II  2 Credits
Arabic Morphology, verbs, derivatives (al-mushtaqqat). Types of mu’annath (the feminine).
30h (T); C

ARA 230  Contemporary Arabic Prose  2 Credits
Terminologies and expressions used in literary journals and daily press emphasis on the Arabic press sourced from internet.
30h (T); C

ARA 241  Intermediate Arabic Reader I  2 Credits
Reading, comprehension of vocalized Arabic passages of not less than 150 words each. Translation of selected passages into English.
15h (T), 45h (P); C

**ARA 242  Intermediate Arabic Reader II**  
Reading, comprehension of vocalized Arabic passages of about 200 words. Translation of selected passages into English.  
15h (T), 45h (P);

**ARA 243  An-Nahw**  
15h (T), 45h (P); E

**ARA 251  General Survey of Arabic Literature**  
Arabic Literature from the Pre-Islamic period to Abbasid period. Textual samples in Arabic original and English translation.  
30 h (T); E

**ARA 261  Arabic for Textual Reading I**  
Reading, writing of Arabic letters, words, sentences and short passages taken from classical Arabic texts.  
30h (T), 45h (P); C.E

**ARA 262  Arabic for Textual Reading II**  
Reading, writing of Arabic texts.  
15h (T), 45h (P); C.E

**ARA 263  Arabic Structures**  
Grammatical features of Arabic. Major parts of speech.  
45h (T); E

**ARA 264  Al-Muhadathah**  
Conversation in simple and correct Arabic.  
15h (T), 45h (P); E

**ARA 265  At-Tarjamah I**  
Passages selected from both classical and modern Arabic prose.  
30h (T); E
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<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>ARA 266</td>
<td>Al-Insha’</td>
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<td>Composition in Arabic. Lexical verbs, nouns and particles.</td>
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<td>15h (T); E</td>
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<td>ARA 321</td>
<td>Arabic Literature of the Early Abbasid Period</td>
<td>2 Credits</td>
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<td>Abbasid Period from the 9th to 10th century C.E.</td>
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<td>Historical literary figures of the period, selected prose and poetry composed by them.</td>
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<td>ARA 322</td>
<td>Arabic Literature of the Late Abbasid Period</td>
<td>2 Credits</td>
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<td>Arabic Literature, 10th to 13th century C.E.</td>
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<td>Historical literary figures of the period, selected texts of their works.</td>
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<td>30h (T); E</td>
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<td>ARA 324</td>
<td>Art and Practice of Translation</td>
<td>2 Credits</td>
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<td>Polysemy, Oligosemy, shared experience, contractions, absence of idea. Arabic language and target language.</td>
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<td>ARA 325</td>
<td>Arabic Rhetoric I</td>
<td>2 Credits</td>
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<td>ARA 326</td>
<td>Arabic Prosody</td>
<td>2 Credits</td>
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<td>Traditional metres of Arabic Poetry and their feet. Aspects of the iambic metric rules and the exceptions as well as morphological and syntactical constraints imposed on the syllabus in rhyme. Poetic licenses in Arabic.</td>
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<td>ARA 327</td>
<td>Quranic Texts</td>
<td>2 Credits</td>
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<td>Qur’an development of Arabic Language &amp; Literature. Literary appreciation of the Qur’an. Selected verses with emphasis on <em>al-balagah</em> (Rhetoric).</td>
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<td>ARA 328</td>
<td>Arabic Composition</td>
<td>2 Credits</td>
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<td>Arabic essays on narrative, descriptive, and argumentation topics. Emphasis on diction, presentation, grammar, punctuation and paragraphing.</td>
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<td>ARA 329</td>
<td>Arabic Lexicography</td>
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<td>Arabic lexicography and the events that led to the early major dictionaries. Critical analysis of the methods of arranging the various lexicons.</td>
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<td>ARA 330</td>
<td>Introduction to Comparative Literature</td>
<td>2</td>
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<td>Arabic, comparative literature on Arabic-Western Literary relations. Influence of Arabic literary traditions, translation theory, thanatology, literature, religion, literature and Arts.</td>
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<td>ARA 331</td>
<td>Information and Communication Technology for Arabic</td>
<td>2</td>
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<tr>
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<td>Arabic oriented computer hardware and software. Language and Literature software and Word Wide Web resources on Arabic Language and Literature. Computer in Arabic writings. Library potentials of internet for Arabic studies: ICT resources, keyboard, scripts, typesetting in Arabic, graphic designs, word and processing.</td>
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<td>15h (T), 45h (P); C</td>
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<td>ARA 332</td>
<td>Phonetics and Phonology</td>
<td>2</td>
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<td>Arabic phonetics. Production of Arabic sound, perspectives of articulation and the state of the glottis. Sounds in the language phonetic description of Arabic sound, phonological problems in the learning of Arabic as a second or third language in Nigeria.</td>
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<td>15h, (T), 45h (P); C</td>
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<td>ARA 333</td>
<td>Arabic Dialectology</td>
<td>2</td>
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<td>Dynamic tendency a language evolution. Superimposed dialect of Arabic, known as ‘high’ in a state of diglossia on dialects marked “low”. Different Amiyyah and a study of one of them.</td>
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<td>ARA 335</td>
<td>Arabic Syntax II</td>
<td>2</td>
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<td>Noun (al-ism), verb (al-fi’l) and the particle (al-harf). Accusative and genitive a role which particles play. Alfiyyah of Ibn Malik.</td>
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<tr>
<td>ARA 336</td>
<td>Arabic Morphology III</td>
<td>2</td>
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<td>Morphological, nouns, treating aspects of diminutive and nouns of relation (an-Nisbah) posture (al-Hay’ah), place (makan), tool (’alaah), number (marrah). Analysis of ‘ibdal (substitution) and i’lal (irregularity).</td>
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<td>30h (T); C</td>
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</table>
ARA 337  Classical Arabic Criticism  2 Credits
Arabic literary criticism of the classical era. Emphasis on literary history, choice of words and the socio-political leaning of the poets and prose-writers studied. The major genres of classical Arabic literature and their exponents.
30h (T); C

ARA 338  A Special Author  2 Credits
Insight into the works of a specific author, his personality and biography
30h (T); E

ARA 341  As-Sarf wa ‘n-Nahw  2 Credits
Arabic morphology and syntax. Application of relevant morphological and syntactical rules.
30h (T); E

ARA 342  At-Tarjamah II  2 Credits
Arabic passages of about 200 words each for translation into English.
30h (T); E

ARA 343  At-Tarjamah III  2 Credits
English passages of about 200 words each for translation into Arabic.
30h (T); E

ARA 351  Major Themes in Classical Arabic Literature  2 Credits
Classical genres of Arabic literature, e.g. al-Madih, al-hija, al-ghazal, al-fakhr, al-khatabah, al-qlssah, and ar-risala in English with Arabic illustration.
30h (T); E

ARA 361  Arabic Structures  3 Credits
Syntax and morphology of standard Arabic. Syntactical and morphological relations within and between sentences using Islamic Arabic sources.
45h (T); E

ARA 362  Textual Reading and Translation I  3 Credits
45h (T); E
ARA 363  Textual Reading and Translation II  3 Credits
45h (T); E

ARA 388  Research Methods in Arabic  2 Credits
Methods of research in Arabic Studies. Topic, collection of data, interviews, administration of questionnaire, literature review methodology, concluding parts, language and reference materials.
30h (T); R

ARA 421  Arabic Literature of Post-Classical Period  2 Credits
Period of Decadence fall of Baghdad in 1258 C.E., occupation of Egypt by Napoleon Bonaparte in 1798 C.E. Prose and poetry of the period.
30h (T); E

ARA 422  Modern Arabic Poetry  2 Credits
Study of the development of modern Arabic poetry. Introduction and study the works of the major poets; al-Barudi, Hafiz Ibrahim, Shawql, Khalil, Mutran, ar-Rusafi, ash-Shabbi, Abdu ’r-Rahman Shukri and Badr Shakiru ’S-Sayyab.
30h (T); C

ARA 423  Modern Arabic Prose  2 Credits
30h (T); C

ARA 424  Nigerian Literature in Arabic  2 Credits
30h (T); C

ARA 425  Arabic Manuscript Editing  2 Credits
Arabic Orthography from the pre-Islamic time to the evolution of the Naskh, Ruq’ah, Farisi, Kufi and Maghribi types of writing. Adoption of Maghribi script in West Africa for Ajami scripts. Ability to read and write each with emphasis on Ruq’ and Maghribi scripts. Critical editing of manuscripts West Africa origin. Special authors and their works.
ARA 426  Modern Arabic Literature in Nigeria  2 Credits
Major poetry and prose works by Nigerian authors after 1914. Old and new trends. Themes in poetry scenic and abstract
descriptions, love, nationalism, panegyric, elegy, pedagogy, and satire. Short story and drama.
30h (T); E

ARA 427  Arabic Rhetoric II  2 Credits
Al-Ma‘ani and al-Badi‘, consideration of al-itnab, al-ijaz and al-Musawah under al-Ma‘ani and al-Muhassanatu ‘Ilafziyyah wa ‘I-
ma’nawiyyah under al-Badi’
30h (T); C

ARA 430  Advanced Arabic Reader II  2 Credits
Arabic prose, reading and comprehension. Collections of short stories of about 200 pages, read, comprehend and analysed.
30h (T); C

ARA 432  Arabic Literature in Spain  2 Credits
and al-Mu‘tamid b. al-Abad.
30h (T); E

ARA 433  Literature on Biladu ‘s-Sudan  2 Credits
Arabic records on West Africa, reports on travellers, historians and geographers al-Bakri, Yaqut, Ibn Battutah, as-Sa‘di, Muhammad
Bello. Style, content and form.
30h (T); E

ARA 434  Advanced Arabic Syntax  2 Credits
Linguistic on aspects of Arabic syntax. Construction, nominal and verbal sentences. Cycle, variables types and complementisers for
subordination and co-ordination.
30h (T); C

ARA 435  The Theatre in Arabic  3 Credits
Drama in Arabic, contact with the West, selected playwrights; Marunu n-Naqqash, Ahmed Shawqi, Tawfigu li-Hakim, Zakariyau
Oseni and Abdul-Ghani Alabi Adebayo. One full play by one of these writers.
30h (T), 45h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ARA 436</td>
<td>Advanced Arabic Translation</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Translation Arabic into English. Passages from</td>
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<tr>
<td></td>
<td>diverse sources and practical translation theories.</td>
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<tr>
<td></td>
<td>30h (P); C</td>
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</tr>
<tr>
<td>ARA 437</td>
<td>Modern Arabic Literary Criticism</td>
<td>2</td>
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<tr>
<td></td>
<td>Arabic literary criticism. West, ideologically</td>
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<td>based schools. Major exponents of modern</td>
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<tr>
<td></td>
<td>criticism: *al-Mazini, Taha Husayn and al-</td>
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<td></td>
<td>Aqqad*</td>
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<td>30h (T); C</td>
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<tr>
<td>ARA 438</td>
<td>Classical and Modern Libraries</td>
<td>2</td>
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<tr>
<td></td>
<td>Concept, types and development of both</td>
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<td>traditional/e-libraries. Libraries in the Arab</td>
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<td></td>
<td>World and rejuvenation of Arabic cultural</td>
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<td></td>
<td>heritage. Indexing, abstracting &amp; cataloguing.</td>
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<td>Reference information sources in Classical &amp;</td>
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<tr>
<td></td>
<td>Modern Arabic: encyclopedias, dictionaries,</td>
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<tr>
<td></td>
<td>lexicography, thesaurus, linguistics, literature,</td>
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<td>geography, sciences, biography &amp; Internet.</td>
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<td>Primary sources in classical and modern</td>
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<td></td>
<td>Arabic literary works.</td>
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<td></td>
<td>30h (T); E</td>
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<tr>
<td>ARA 439</td>
<td>Literature of the Mahjar</td>
<td>2</td>
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<td></td>
<td>Arabic literary figures who migrated to the</td>
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<td></td>
<td>Americas: *Jibran Khalil Jibran, Milkha’il</td>
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<tr>
<td></td>
<td>Nu’aymah, Iliya Abu Madi*, literary output in</td>
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<td></td>
<td>prose and poetry.</td>
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<td>30h (T); E</td>
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<tr>
<td>ARA 440</td>
<td>Literature of <em>Maqamat</em></td>
<td>2</td>
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<td></td>
<td><em>Maqomat</em> literature as one of the genres in</td>
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<td></td>
<td>Arabic Literature: *Maqomaatu al-Hamadhaniy,</td>
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<td></td>
<td>*Al-Hariri, Majmau li-Bahrain, Alamatu dduniya</td>
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<tr>
<td></td>
<td>and Al-qorniy*.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>ARA 490</td>
<td>Media Arabic</td>
<td>2</td>
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<tr>
<td></td>
<td>Arabic Language usage in media aspects-Print,</td>
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<tr>
<td></td>
<td>Broadcast, Information Technology, Media literacy</td>
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<td>&amp; Culture, News reporting and Language of the</td>
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<td></td>
<td>press.</td>
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<td></td>
<td>30h (T); E</td>
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<tr>
<td>ARA 491</td>
<td>North Africa Literature</td>
<td>2</td>
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<tr>
<td></td>
<td>Arabic literature in Morocco, Tunisia, Libya,</td>
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<td>Algeria and Mauritania. Two poets and two</td>
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<td>essayists. Writings of the Northern African</td>
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<td>Region widely read in Nigeria: <em>Hasan Ibn Masud</em></td>
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<td></td>
<td>al–Layusi’s Daliya (Nailu li amani fi sharh</td>
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<td>ttahaniy) Busairi’s <em>Al-burda</em> and Hamziya.</td>
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</tbody>
</table>
ARA 499 Research Project 4 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

225h (P); C

SUMMARY

100 LEVEL

Compulsory Courses: ARA 121 (2), 122(2), 123(2), 124(2), 125(2), 126(2), 127 (2), 128 (2) = 16 Credits

Required Courses: GNS 111 (2), 112(2), RIS 121 (2), 122(2), 123 (2), 126(2) = 12 Credits

Elective Courses: At least 4 Credits from relevant 100 level course in LIN
Total= 32 Credits

200 LEVEL

Compulsory Courses: ARA 222(2), 223(2), 224(2), 225(2), 226(2), 227 (2), 228 (2), 229 (2), 230 (2) = 18 Credits

Required Courses: GNS 211(2), 212 (2), RIS 223 (2), 224 (2), 225 (2), 228 (2) = 12 Credits

Elective Courses: At least 4 Credits from relevant 200 Courses in LIN = 4 Credits
Total = 34 Credits

Direct Entry Students: GNS 111(2), 112 (2) = 4 Credits
Total = 38 Credits

300 Level
Compulsory Courses: ARA 321 (2), 322 (2), 324 (2), 330 (2), 331(2), 325 (2), 326 (2), 328 (2), 332 (2), 335 (2), 337 (2), 388 (2) = 24 Credits

Required Courses: GNS 311 (2), GSE 301 (3) = 5 Credits

Elective Courses: At Least 2 Credits from ARA 327 (2), 329 (2), 329 (2) 333 (2), 336 (2), = 2 Credits

Total= 31 Credits

400 Level

Compulsory Courses: ARA 424 (2), 434 (2), 499 (4), 423 (2), 427 (2), 430 (2), 435 (2), 436 (2), 437 (2), 490 (2) = 22 Credits

Elective Courses: At Least 8 Credits from ARA 421 (2) 422 (2) 425 (2) 426 (2) 432 (2) 433 (2) 438 (2)439 = 8 Credits

Total = 30 Credits

Graduation Requirements:

UTME - 127 Credits
DE - 99 Credits
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 101</td>
<td>English Language I</td>
<td>2</td>
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<tr>
<td></td>
<td>History, sound, grammar, semantic system and varieties of English. Role of English as an international language.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>ENG 102</td>
<td>English Language II</td>
<td>2</td>
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<tr>
<td></td>
<td>Salient features of English Grammar: basic sentence, clause, phrase and word structures as well as inter-sentential relations.</td>
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<td></td>
<td>30h (T); C</td>
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<tr>
<td>ENG 103</td>
<td>Spoken English</td>
<td>2</td>
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<tr>
<td></td>
<td>Conversational English, using relevant phonological materials (e.g. tapes, records, video, films, etc.) to enhance the students’ spoken English.</td>
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<td></td>
<td>90h (P); C</td>
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<tr>
<td>ENG 105</td>
<td>Literary Appreciation</td>
<td>2</td>
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<tr>
<td></td>
<td>Rudiments of literary appreciation. Literature as a foundation for the higher literary criticism courses.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>ENG 106</td>
<td>Basic English Grammar and Composition</td>
<td>3</td>
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<tr>
<td></td>
<td>Rudiments of English grammar and relevance to composition.</td>
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<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>ENG 107</td>
<td>Theatre Workshop</td>
<td>3</td>
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<tr>
<td></td>
<td>Practical skills of theatre, speech and voice training: Techniques of improvisation, acting and stage construction.</td>
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<tr>
<td></td>
<td>135h (P); C</td>
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<tr>
<td>ENG 114</td>
<td>Introduction to Nigerian Literature</td>
<td>2</td>
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<tr>
<td></td>
<td>Literary developments through the pioneer period, the colonial and the postcolonial stages. Modes of poetry, drama, prose or fiction of major Nigerian writers.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>ENG 115</td>
<td>Introduction to Poetry</td>
<td>3</td>
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</tbody>
</table>
Nature, form and characteristics of poetry. Acquisition of the tools and techniques of poetic appreciation and analysis.

**ENG 116 Introduction to Prose Fiction**  
3 Credits

Literary tenets of the fictional mode. Techniques of fiction and thematic focus. Genres: satirical novel, romance, historical novel, war fiction, epic novel, literary biography and literary autobiography.

45h (T); E

**ENG 117 Introduction to African Oral Literature**  
3 Credits


45h (T); C

**ENG 118 Introduction to Drama and Theatre**  
3 Credits

Nature and artistic features of drama and theatre. Acquisition of the tools and techniques of drama and theatre through the analysis of selected African and non-African plays.

45h (T); E

**ENG 119 Introduction to European Literature in Translation**  
3 Credits

Introduction to translated works from European literature. Study of selected national literatures. Literary movements, social and cultural impulses. Selected works from Italian, German and French literatures.

45h (T); E

**ENG 203 Introduction to General Phonetics and Phonology I**  
2 Credits

Principles of phonetic description and taxonomy.

30h (T); C

**ENG 204 Introduction to General Phonetics and Phonology II**  
2 Credits

Application of the principles of phonetics and phonology. Emphasis on practical examples and language laboratory exercises relevant to English in Nigeria.

30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 205</td>
<td>Advanced English Composition I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Specialized composition, including reports, long essays, minutes of meetings and various types of letters.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>ENG 206</td>
<td>Advanced English Composition II</td>
<td>2</td>
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<tr>
<td></td>
<td>Technical matters related to kinds of writings, including reports, minutes, memoranda and long essays.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>ENG 207</td>
<td>History of the English Language</td>
<td>3</td>
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<tr>
<td></td>
<td>Diachronic study of the development of the English Language from the old English period to its present-day status as a world language.</td>
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<td></td>
<td>45h (T); E</td>
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<tr>
<td>ENG 209</td>
<td>Language and Society</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Examination of Language in its social context. Emphasis on variations based on age, sex, ethnicity, social status, etc.</td>
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<td>45h (T); E</td>
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<tr>
<td>ENG 210</td>
<td>Creative Writing I</td>
<td>3</td>
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<tr>
<td></td>
<td>Stimulating creative potentials of students. Instruction on imaginative writing with specific reference to poetry, drama and prose.</td>
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<td>45h (T); E, PR: ENG 328</td>
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<tr>
<td>ENG 215</td>
<td>History of Theatre: Aeschylus to Shakespeare</td>
<td>2</td>
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<tr>
<td></td>
<td>Forms, characteristics and conventions of theatre from Aeschylus to Shakespeare.</td>
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<td>30h (T); C</td>
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<tr>
<td>ENG 216</td>
<td>Modern Comedy: Moliere to Soyinka</td>
<td>2</td>
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<tr>
<td></td>
<td>Comedy as a genre. Texts of comedians from Moliere to Soyinka.</td>
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<td>30h (T); C</td>
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<tr>
<td>ENG 217</td>
<td>European Theatre since Ibsen</td>
<td>2</td>
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<tr>
<td></td>
<td>European Theatre from Ibsen to Modern times. Theatre of the Absurd.</td>
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<td>Course Code</td>
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<tr>
<td>ENG 218</td>
<td>Introduction to Stylistics</td>
<td>2</td>
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<tr>
<td></td>
<td>Basic principles of linguistic and literary analysis. Features of texts which instigate markedness and corresponding implications for interpretation and appreciation of the discourse.</td>
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<tr>
<td>ENG 219</td>
<td>English Syntax I</td>
<td>2</td>
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<tr>
<td></td>
<td>Major syntactic constituents: cohesive devices, concord, syntactic units and how coordinators and subordinators affect sentence varieties in a text. Essential elements of tense and concord.</td>
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<tr>
<td>ENG 220</td>
<td>English Syntax II</td>
<td>2</td>
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<tr>
<td></td>
<td>Grammatical theories of syntax emphasizing the syntactic analysis of phrases and clauses. Detailed study of one theory of linguistic analysis. Some simple syntactic processes in English: passivization, nominalization and complementation.</td>
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<tr>
<td>ENG 221</td>
<td>Introduction to American Literature</td>
<td>2</td>
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<tr>
<td></td>
<td>Selection of American imaginative works. Role in historical and political developments. Major American authors in the various genres.</td>
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<tr>
<td>ENG 222</td>
<td>Introduction to African Literature</td>
<td>2</td>
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<tr>
<td>ENG 223</td>
<td>English Literature: The Renaissance Period</td>
<td>2</td>
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<tr>
<td></td>
<td>Literary movements, themes and major authors from the Accession of the Tudors to the Restoration of Charles II.</td>
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<tr>
<td>ENG 224</td>
<td>English Literature: Neo-Classical Period</td>
<td>2</td>
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<tr>
<td></td>
<td>Convention and Realism from the Restoration to the end of the Neo-classical Age.</td>
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</tbody>
</table>
ENG 226  English Literature from the Beginning  2 Credits
Literary types and sub-types from Anglo-Saxon invasion to the Norman Conquest.
30h (T); C

ENG 304  Introduction to Semantics  2 Credits
Concentration on sense properties and sense relations. Problems of word versus sentence including meaning and semantic markedness. Situating the course within the general framework of linguistic semantics.
30h (T); C

ENG 306  Discourse Analysis  2 Credits
Introduction to the principle and practice of discourse analysis. Practical analysis, study and description of relevant textual materials. Features of coherence, cohesion as intra and inter-sentential paragraph devices in texts.
30h (T); C

ENG 307  Introduction to Sociolinguistics  2 Credits
Basic concepts and applications of sociolinguistics. Relationship between language and society: language varieties, social dialects and the problems of multilingualism. Language in relation to development.
30h (T); C

ENG 315  English Literature: Romantic Movement  2 Credits
Representative authors and dominant literary features of the Romantic period.
30h (T); C

ENG 316  English Literature: Victorian Period  2 Credits
Representative authors and dominant literary features of the Victorian period.
30h (T); C

ENG 317  English Literature: Modern Period  2 Credits
Representative authors and dominant literary features of the twentieth century.
ENG 321  African Drama  2 Credits
Origin and development of written dramatic works in Africa. Response of African writers through theatre to cultural, social and political situation. Close study of the works of the major dramatists in the various regions of the continent.
30h (T); C

ENG 323  Seminar in Criticism  2 Credits
Writing seminar designed to develop skill and insight. Writing of critical essays: poetry, drama and prose.
30h (T); E

ENG 325  Contemporary English Usage  2 Credits
English in its contemporary form. Variations according to uses and users. Notion of correctness and grammaticalness. Problem of defining ‘Standard English’ worldwide.
30h (T); C

ENG 326  Phonology of English  2 Credits
Approaches to phonemic, prosodic, distinctive and generative of English. Segmental and non-segmental phonemes. Organization and analysis of phonological features in connected speech.
30h (T); C

ENG 327  A Survey of Applied Linguistics  2 Credits
Approaches to language analysis in the classroom: contrastive analysis, error analysis, discourse analysis. English for specific purposes, including computer-assisted language learning and the internet. Practical application of the various analytical models and implications for teaching.
30h (T); C

ENG 328  Creative Writing II  2 Credits
Practical class. Advanced stimulation of latent creative skills. Poetry, drama and prose.
30h (T); E, PR: ENG 210

ENG 329  The English Language in Nigeria  2 Credits
History, features and functions of English in Nigeria. Emergence of virile local varieties and changes leading to the evolution of a Nigerian standard. Examination of English, National language question and language attitudes among Nigerians.

ENG 330  Philosophy of Language  

ENG 331  Grammatical Theories  

ENG 332  Principles of Semiotics  
Science of signs and sign systems. Meta-language of semiotics and the process of semiotic analysis. Application of semiotics to communication in social context.

ENG 333  English for Professional Purposes  
Vocabulary, sentence structure and writing styles of English in banking, law, advertising, administration, business, the media, among others. Critical examination, study and production of texts in different professions.

ENG 334  Systemic Grammar  
Guide to the patterns and organization of English at the morpheme, word, group, clause and sentence levels. Categories of unit, class, structure and system of English. Surface and deep structures of grammar.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 335</td>
<td>African Poetry</td>
<td>2</td>
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<tr>
<td></td>
<td>Origin and developments of written poetry in various parts of Africa. Poetic movement, categories, literary language and selected poetry anthologies.</td>
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<td>30h (T); C</td>
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<tr>
<td>ENG 336</td>
<td>African Fiction</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>ENG 338</td>
<td>Introduction to the Literature of Black Diaspora</td>
<td>2</td>
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<td></td>
<td>Concept of Black Diaspora. General survey of roots and sources in the literature of Black Diaspora: major stages, periods, influences; major themes, including themes of alienation, dislocation, colonization and neo-colonization.</td>
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<td>30h (T); E</td>
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<tr>
<td>ENG 339</td>
<td>Research Methods I</td>
<td>2</td>
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<tr>
<td></td>
<td>Methods and tools of research: question, hypothesis, population and sampling, instrUMENTation, literature review, and others.</td>
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<tr>
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<td>30h (T); C</td>
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<tr>
<td>ENG 340</td>
<td>Literary Criticism</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Critical and literary traditions across periods. Forms of criticisms, including genre, deconstruction, archetypal, formalist, etc. (Only for Literature emphasis)</td>
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<td></td>
<td>30h (T); C</td>
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<tr>
<td>ENG 342</td>
<td>Introduction to the Practice of Theatre</td>
<td>2</td>
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<tr>
<td></td>
<td>Rudiments of theatre practice: choice of play, casting, directing, costuming, lighting, stage management and theatrical productions. Stimulating theatrical process through production of short plays or theatrical sketches.</td>
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<td></td>
<td>15h (T), 45h (P); E</td>
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<tr>
<td>ENG 421</td>
<td>Trends in Syntax</td>
<td>2</td>
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<td></td>
<td>Syntactic treatment of topics of relevance or currency: pro-nominalization, complement structures, case marking, thematic roles, negation, grammatical categories, tense, aspect, mood, tense marking.</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>ENG 422</td>
<td>Pragmatics</td>
<td>2</td>
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<td>Utterance meaning as distinct from sentence meaning. Socio-cultural and linguistic rules that determine correct interpretation of terms in the real world.</td>
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<tr>
<td>ENG 423</td>
<td>Psycholinguistics</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Relationship between language and mind: language acquisition, language learning, thinking and cognition, language and the brain, language localization, linguistic performance and behavior. Production and comprehension, and language impairment.</td>
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<tr>
<td>ENG 424</td>
<td>Multilingualism</td>
<td>2</td>
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<tr>
<td></td>
<td>Identification, study and analyses of problems of national languages. Official orthographies, languages as school subjects, language policy and language planning. Reference to position of English in multilingual Africa and other continents.</td>
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<tr>
<td>ENG 425</td>
<td>English for Specific Purposes</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Pre-conditions for functional and goal-oriented English language learning in meeting linguistic and communicative needs of specialist students. Formulation, administration and follow-up of English language teaching curriculum in applied contexts.</td>
<td></td>
</tr>
<tr>
<td>ENG 426</td>
<td>Language and National Development</td>
<td>2</td>
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<tr>
<td></td>
<td>Constraints and prospects placed on national development by the linguistic situation in developing African nations. Language as the most effective means of human communication and as cornerstone of mass participation in the development process itself.</td>
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<tr>
<td>ENG 427</td>
<td>Speech Writing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Speech writing as a communication skill. Speech types, organization and mechanics of speech writing.</td>
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<tr>
<td>ENG 428</td>
<td>Language and Media Studies</td>
<td>2</td>
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</tbody>
</table>

ENG 429  Studies in Fiction  2 Credits
Novel as a form of literary expression. Textual analysis of major novels written in or translated into English. Major theories of novel and different approaches in the criticism of fiction.
30h (T); E

ENG 430  Studies in Poetry  2 Credits
Major poetic forms in English or translated into English. Genres of poetry and poetic forms developed in response to aesthetic and intellectual movement.
30h (T); E

ENG 431  Studies in Drama  2 Credits
Major dramatic works in English or translated into English. Texts adjudged to be representative of major landmarks in dramatic literature from the classical to the present will be studied.
30h (T); E

ENG 432  Advanced Practical Theatre  2 Credits
Major theatrical trends across periods: the Greek, Roman, Elizabethan, Jacobean, Italian, Renaissance and African theatres. Theories of the stage from Aristotelian through Naturalism to Absurdist theatre and related practices. Study of the African stage and the contemporary theatre practice.
30h (T); E

ENG 433  Studies in Caribbean and African-American Literature  2 Credits
Major works of selected authors in the Caribbean and Africans in America. Distinctive literary traditions of the regions: innovative literary language like Pidgin or Creole. Reinvention of genres, transposition of African oral traditions, and retrieval of African performance. Traditions in drama and poetry and use of the epic journey mode.
30h (T); E
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 434</td>
<td>Studies in American Literature</td>
<td>2</td>
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<tr>
<td></td>
<td>Study of selected American poets, dramatists, novelists and literary autobiographers. History and political trends of the modern period.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>ENG 435</td>
<td>Research Methods II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
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<tr>
<td>ENG 436</td>
<td>Literature and the Media</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>ENG 437</td>
<td>Stylistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Study, description and analysis of various sample literary texts by the principles of literary theory. Practice and principles of linguistic analysis.</td>
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<td></td>
<td>45h (T); C</td>
<td></td>
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<tr>
<td>ENG 438</td>
<td>Modern Literary Theory</td>
<td>2</td>
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<tr>
<td></td>
<td>Recent trends in Literary Theory including their relevance to African Literature.</td>
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<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>ENG 439</td>
<td>The Practice of Creative Writing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Techniques of fiction, verse, drama, literary biography and autobiography.</td>
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<td></td>
<td>30h (T); E</td>
<td></td>
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<tr>
<td>ENG 440</td>
<td>Fundamentals of Journalism</td>
<td>2</td>
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</tbody>
</table>


30h (T); E

ENG 499  Research Project  5 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

225h (P); C

Summary
100 Level

Compulsory Courses:  ENG101 (2), 102 (2), 103 (2), 105 (2) 106 (3), 107 (3), 114 (2), 115 (3), 117 (3)  = 22 Credits

Required Courses:  GNS111 (2), 112 (2)  = 4 Credits

Elective Courses:  (a) 4 Credits from HIS, PFA, Religion, LNG, YOR, FRE, Arabic  = 4 Credits
(b) 3 Credits from ENG 116 (3), 118 (3), 119 (3) = 3 Credits
Total = 33 Credits

200 Level

Compulsory Courses:
ENG 203 (2), 204 (2), 205 (2), 218 (2), 219 (2), 220 (2), -
{215 (2) or 217 (2)} {216 (2) or 222 (2)} { (221) (2) or 223 (2)}
{224 (2) or 226 (2)}
= 20 Credits

Required Courses:
GNS211 (2), 212 (2)
= 4 Credits

Elective Courses:
(a) 4 Credits from HIS, PFA, Religion, LNG, YOR, FRE, Arabic
= 4 Credits

(b) 5 Credits from ENG 206 (2), 207 (3), 209 (3), 210 (3)
= 5 Credits
Total = 33 Credits

DE Students:
GNS111 (2) & GNS112 (2)
= 4 Credits
Total = 37 Credits

300 Level

(a) Language Emphasis
Compulsory Courses:
ENG304 (2), 306 (2), 307 (2), 325 (2), 326 (2), 327 (2),
329 (2), 334 (2), 339 (2)
= 18 Credits

Required Courses:
GNS311 (2), GSE 301 (3)
= 5 Credits

Elective Courses:
At least 10 Credits from ENG315 (2), 328 (2), 330 (2), 331 (2), 332 (2),
333 (2), 342 (2)
= 10 Credits
Total = 33 Credits

(b) Literature Emphasis
Compulsory Courses:
ENG315 (2), 316 (2), 317 (2), 321 (2), 335 (2), 336 (2), 339 (2), 340 (2)
= 16 Credits

Required Courses:
GNS311 (2), GSE 301 (3)
= 5 Credits
Elective Courses:  At least 12 Credits from ENG 306 (2), 307 (2), 323 (2), 328 (2), 329 (2), 330 (2), 332 (2), 333 (2), 338 (2), 342 (2)  
= 12 Credits  
Total = 33 Credits

400 Level  
Compulsory Courses:  ENG 435 (3), 437 (3), 499 (5)  
= 11 Credits

Elective Courses:
(a) Language Emphasis: At least 22 Credits from ENG421 (2), 422 (2), 423 (2), 424 (2), 425 (2), 426 (2), 427 (2), 428 (2), 429 (2), 430 (2), 431 (2), 433 (2), 434 (2), 436 (2), 438 (2), 439 (2), 440 (2)  
= 22 Credits  
Total = 33 Credits  
(b) Literature Emphasis: At least 22 Credits from ENG424 (2), 425 (2), 426 (2), 427 (2), 428 (2), 429 (2), 430 (2), 431 (2), 432 (2), 433 (2), 434 (2), 436 (2), 438 (2), 439 (2), 440 (2)  
= 22 Credits  
Total = 33 Credits

Graduation Requirements:
UTME – 132  
DE - 103

DEPARTMENT OF FRENCH
Courses Description

B.A. French

For French Absolute Beginners/Minor without O/Level French or its equivalents

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 101</td>
<td>French Sounds and Orthography</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Basic network of rules governing the relationship between French sounds and French orthography.</td>
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<tr>
<td></td>
<td>15h (T), 90h (P); C</td>
<td></td>
</tr>
<tr>
<td>FRE 102</td>
<td>Oral French</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Skills involved in pronunciation and articulation of French sounds both in isolation and in connected speech based on simple dialogues set in clear social contexts.</td>
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<tr>
<td></td>
<td>15h (T), 90h (P); C</td>
<td></td>
</tr>
<tr>
<td>FRE 103</td>
<td>Fundamentals of French Grammar I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Basic connections between French words and rules governing them. Identification and use of different features: noun, verb, pronoun, subject, object, among others.</td>
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<tr>
<td></td>
<td>15h (T), 90h (P); C</td>
<td></td>
</tr>
<tr>
<td>FRE 104</td>
<td>Fundamentals of French Grammar II:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Acceptable basic rules and principles in French.</td>
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<td></td>
<td>15h (T), 90h (P); C</td>
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</tr>
<tr>
<td>FRE 105</td>
<td>Reading in French</td>
<td>3</td>
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<tr>
<td></td>
<td>Competence in reading limited connected stretches in French: polysyllabic words, short phrases, sentences pronunciation, fluency and intonation.</td>
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<tr>
<td></td>
<td>15h (T), 90h (P); E</td>
<td></td>
</tr>
<tr>
<td>FRE 106</td>
<td>French Composition</td>
<td>2</td>
</tr>
</tbody>
</table>
Short composition using elementary techniques of self-expression: Exaggeration, comparison, assertion, denial, hypothesis, interrogation, exclamation, and others.

30h (T); E

**FRE 107  Writing in French**  
2 Credits  
Exploitation of the resources of French sounds and orthography to practice how to write correctly in French. Special features: capital letters, small letters and punctuation marks in French.

30h (T); C

**FRE 108  Aspects of French Culture**  
2 Credits  
Major characteristic features of French life, politics and culture: family structure, food, cooking, leisure, sport and implications for students’ immediate society.

15h (T), 45h (P); E

**FRE 109  Francophone Countries of West Africa**  
2 Credits  
Francophone countries of West Africa: history, identification of socio-political institutions, languages spoken and key linkages with France.

15h (T), 45h (P); E

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**Courses For German Minor**

**GRM 101  German Sounds and Orthography**  
3 Credits  
Basic network of rules governing relationship between German sounds and orthography.

15h (T), 90h (P); C

**GRM 102  Oral German**  
3 Credits  
Skills involved in pronunciation and articulation of German sounds both in isolation and in connected speech based on simple dialogues set in clear social contexts.

15h (T), 90h (P); C

**GRM 103  Fundamental of German Grammar I**  
3 Credits
Basic connections between German words and rules governing them. Identification and use of different features, including noun, verb, pronoun, subject, object.
15h (T), 90h (P); C

**GRM 104 Fundamentals of German Grammar II** 3 Credits
Acceptable basic rules and principles in German.
15h (T), 90h (P); C

**GRM 105 Reading in German** 3 Credits
Competence in reading limited connected stretches in German: polysyllabic words, short phrases, sentences pronunciation, fluency and intonation.
15h (T), 90h (P); E

**GRM 106 German Composition** 2 Credits
Short composition using elementary techniques of self-expression: Exaggeration, comparison, assertion, denial, hypothesis, interrogation, exclamation, and others.
15h (T), 45h (P); E

**GRM 107 Writing in German** 2 Credits
Exploitation of the resources of German sounds and orthography to practice how to write correctly in German. Special features: capital letters, small letters and punctuation marks in German.
15h (T), 30h (P); E

**GRM 108 German Culture and Civilisation** 2 Credits
German people and movement. Geography of German speaking nations. German former colonies.
30h (T); E

**Course Description**

**100 Level**

**FRE 111 Laboratory Work** 2 Credits
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 113</td>
<td>Corrective Grammar I</td>
<td>2</td>
<td>French grammatical structures: exercises, practice of structural forms and dictation.</td>
</tr>
<tr>
<td>FRE 115</td>
<td>Extensive Reading of Prescribed Texts I</td>
<td>2</td>
<td>Reading of prescribed texts from the “Français Facile” series.</td>
</tr>
<tr>
<td>FRE 117</td>
<td>French Conversation I</td>
<td>2</td>
<td>Use of French and Francophone documents including songs and short plays. Free communication, expression and vocabulary.</td>
</tr>
<tr>
<td>FRE 119</td>
<td>Composition Writing in French I</td>
<td>2</td>
<td>Basic skills in narrative and descriptive French writing.</td>
</tr>
<tr>
<td>FRE 121</td>
<td>French Phonetics</td>
<td>2</td>
<td>Acquisition of good pronunciation of French sounds.</td>
</tr>
<tr>
<td>FRE 123</td>
<td>Corrective Grammar II</td>
<td>2</td>
<td>Characteristics of separate units: elements of sentence structure, verb, noun, objects and prepositional phrases.</td>
</tr>
<tr>
<td>FRE 125</td>
<td>Extensive Reading of Prescribed Texts II</td>
<td>2</td>
<td>Reading of advanced prescribed texts from the “Français Facile” series.</td>
</tr>
<tr>
<td>FRE 127</td>
<td>French Conversation II</td>
<td>2</td>
<td>Lexical acquisition and fluency of spoken French.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>FRE 129</td>
<td>Composition Writing in French II</td>
<td>2</td>
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<tr>
<td></td>
<td>Advance composition writing, exposition, and argumentation relating various registers of written French language to appropriate themes.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>FRE 131</td>
<td>Topics in French Civilisation</td>
<td>2</td>
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<td></td>
<td>French society and culture. Landmarks of French social and political history.</td>
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<td>30h (T); E</td>
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<tr>
<td>FRE 210</td>
<td>French Grammatical Structures</td>
<td>2</td>
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<td>Practice and identification of verbal forms, sentence and grammatical structures.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>FRE 211</td>
<td>Introduction to Translation</td>
<td>2</td>
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<tr>
<td></td>
<td>Theory and practice of translation from and into French. Translating French and English single sentences. Similarities and dissimilarities between both languages.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>FRE 213</td>
<td>Studies in Aural and Written Comprehension</td>
<td>2</td>
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<tr>
<td></td>
<td>Study and analysis of French registers: French and Francophone newspapers, administrative, commercial, technical and literary excerpts.</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>FRE 215</td>
<td>Introduction to Francophone African Literature</td>
<td>2</td>
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<td></td>
<td>African literature as aesthetic drive to convey various meanings and messages using prescribed texts.</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>GRM 201</td>
<td>Introduction to German</td>
<td>2</td>
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<td></td>
<td>German as second foreign language, illustrating current main literary movements in German.</td>
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<td>15h (T), 45h (P); R</td>
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<tr>
<td>FRE 231</td>
<td>Introduction to French Drama</td>
<td>2</td>
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<td>French and Francophone plays, drama theory, artistic elements, themes, forms.</td>
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<td>30h (T); E</td>
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<tr>
<td>FRE 233</td>
<td>Critical Appreciation of Literature</td>
<td>2</td>
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</tbody>
</table>
Practice of literary appreciation written expression: “l’explication de texte”, résumé de texte”, “l’analyse littéraire” and “le commentaire de texte”.

30h (T); E

**FRE 221**  
**Theory and Practice of Translation**  
2 Credits  
Advance theory and practice of translation from and into French. Translating French and English single sentences. Similarities and dissimilarities between both languages.  
15h (T), 45h (P); C

**FRE 222**  
**Advanced Composition written in French**  
2 Credits  
This course is a more advanced form of FRE 119 and 129. It improves upon the various skills and techniques of composition writing in French already acquired in the previous year.  
15h (T), 15h (P); E

**FRE 223**  
**Introduction to French Phonetics and Phonology**  
3 Credits  
Introduction to systematic description of French sounds both at the phonetic and phonological levels.  
30h (T), 45h (P); C

**FRE 225**  
**Survey of French Literature 16th & 17th Centuries**  
2 Credits  
Major trends of the French literary history. Theory and practice of literary schools including “la Renaissance”, “la Pleiade”, Classicism”.  
90h (P); C

**GRM 202**  
**Proficiency Course in German**  
2 Credits  
Advanced German. Developing communicative in German texts, songs and short plays.  
15h (T), 45h (P); R

**FRE 241**  
**Introduction to Poetry**  
2 Credits  
30h (T); E

**FRE 243**  
**Introduction to the Culture and Civilisation of Francophone Africa**  
2 Credits  
Study of social, economic and cultural life of Francophone African countries; Nigeria’s French speaking neighbours.  
30h (T); E

**FRE 310**  
**Advanced Studies in French Language Structures I**  
2 Credits
Fluency and understanding of the French language using intensive exercises in the production and comprehension of complex sentence patterns.
15h (T), 45h (P); C

FRE 311 Communication Skills in French I 2 Credits
Communication skills in French. Oral and written communication skills. Development of Laboratory work, films, slides, games and songs.
15h (T), 45h (P); R

FRE 313 Practical Translation I 2 Credits
Basic skills and techniques of translation from French into English and vice versa.
15h (T), 45h (P); C

FRE 315 Advanced Studies in French Phonetics I 2 Credits
Advance French sound production and discrimination through oral exercises and laboratory work.
15h (T), 45h (P); C

GRM 301 German Grammar in Communication 2 Credits
Structure of German grammatical formations, lexical expansion techniques, nominative and accusative cases.
15h (T), 45h (P); R

FRE 331 Culture and Civilisation of France 2 Credits
Social, economic and cultural life of France from the period of the 1789 Revolution to date.
30h (T); E

FRE 333 Trends in African Literature Written in French 2 Credits
30h (T); E

FRE 335 18th Century French Literature 2 Credits
Landmarks of 18th century French literature, Encyclopédie; history structure, characteristics, main ideas and major contributors. Authors to be studied: Voltaire, Diderot, Beaumarchais, Montesquieu, Marivaux, and Rousseau.
30h (T); E

FRE 320 Advanced Studies in French Structures II 2 Credits
Trends in French semantic studies from the traditional to the modern structural approaches.
FRE 321  Communication Skills in French  2 Credits
Advanced communication skills in French. Oral and written communication skills. Development of Laboratory work, films, slides, games and songs.
15h (T), 45 (P); C

FRE 325  Advanced Studies in French Phonetics II  2 Credits
15h (T), 45h (P); C

FRE 327  Introduction to Research  2 Credits
30h (T); C

GRM 302  German Grammar in Communication II  2 Credits
Advanced structure of German grammatical formations, lexical expansion techniques, nominative and accusative cases.
15h (T), 45 (P); R

FRE 341  Culture and Civilisation of Francophone Africa  2 Credits
French speaking African Communities. Historical, political and social realities.
30h (T); E

FRE 343  Practical Translation II  2 Credits
Translation of more complicated texts from and into French. Basic principles of the theory of Translation.
15h (T), 45h (P); E

FRE 345  Introduction to Basic Prose  2 Credits
French and Francophone prose fiction. Introduction to the anatomy of prose, main features and its aesthetic elements.
30h (T); E

FRE 410  Linguistics Applied to the teaching to French Language I  2 Credits
Linguistic principles. Demonstration of application of linguistic principles to French Language teaching.
15h (T), 45h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 411</td>
<td>Advanced Communication Skills</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>15h (T), 45h (P); C</td>
<td></td>
</tr>
<tr>
<td>FRE 413</td>
<td>Contemporary African Literature in French</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Development of genres African Literature of French expression from the Negritude to the Post-Colonial period. Study of trends of post-colonial works of contemporary authors with at least two main genres.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>FRE 420</td>
<td>Linguistics Applied to the Teaching of French Language II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Social and linguistic norms affecting French language learning. Distinction between French as a Foreign Language (FLE) and French as a Mother Tongue (FLM) or Second Language (FLS). Relating French Language learning to the Nigerian environment: interférence, interlangue, and facilitation.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>FRE 423</td>
<td>20th Century French Literature</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Highlights of French literature of the 20th century. Genres and literary movements, including le Dadaïsme, le surréalisme, l'Existentialisme, l'absurde, Le Nouveau Roman. Illustrative study of these movements by Jean-Paul Sartre, Albert Camus, Michel Butor, Alain Robbe-Grillet and Nathalie Sarraute.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>FRE 431</td>
<td>19th Century French Literature</td>
<td>2</td>
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<td></td>
<td>Highlights of 19th century French literature. Genres and literary movements including: le pré-romantisme, le romantisme, le parnasse, le réalisme, le naturalisme, le symbolisme of Madame de Staël, Chateaubriand, Victor Hugo, Leconte de Lisle, Balzac, Flaubert, Sola, and Mallarmé.</td>
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<td></td>
<td>30h (T); E</td>
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<tr>
<td>FRE 433</td>
<td>African Oral Literature</td>
<td>2</td>
</tr>
</tbody>
</table>

30h (T); E

FRE 435 Advanced Translation I 2 Credits
15h (T), 45h (P); E

FRE 437 Creative Writing in Practice 2 Credits
Practical skills for writing creatively and imaginatively. Study and production “mini work of arts”.
15h (T), 45h (P); E

FRE 439 Culture and Civilisation of Francophone Communities of Maghreb, Europe and America 2 Credits
Social, political and economic life of Francophone Countries of Maghreb, Europe (excluding France) and America. Francophone communities in Maghreb, Algeria, Tunisia, Morocco and Egypt. Francophone communities in Europe: Belgium, Switzerland, Luxembourg and Monaco. Francophone communities in the Americas, Haiti, Canada and U.S.A.
30h (T); E

FRE 441 French Morpho-syntax 2 Credits
Morphological and syntactic characteristics of the French Language. Lexical formation, affixation, sentence constituents and clause categorization.
30h (T); E

FRE 443 Literary Criticism in French 2 Credits
Basic techniques of analyzing, interpreting and appreciating literary works of art. Structures and forms of modern approaches to critical analysis and interpretation of literature.
30h (T); E

FRE 445 Advanced Translation II 2 Credits

15h (T), 45h (P); E

FRE 447  Background Studies of Francophone Africa  2 Credits
Present sociological realities of Francophone Africa. Ethnic groups of various Francophone countries in Africa. Problems created by the total domination of French language on other local languages. Economic and political factors at play in this part of Africa. Rapport between Francophone and Anglophone Africa.
30h (T); E

FRE 449  Caribbean Francophone Literature  2 Credits
Development and major trends in Caribbean literature of French expression from the Negritude through Antillanité to Créolite using the works of Aimé Césaire, and Eduard Glissant. Study of selected works of notable writers including Aimé Césaire, Sony Rupaire, Michele Lacrosil, Maryse Condé, Gisele Pineau, Hector Poullet.
30h (T); E

FRE 499  Research Project  5 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an approved area by the Department, culminating in the submission of a project.
225h (P); C
SUMMARY

100 LEVEL

Compulsory Courses: FRE111 (2), 113 (2), 115 (2), 117 (2), 119 (2), 121 (2), 123 (2), 125 (2), 127(2), 129 (2)  
= 20 Credits

Required Courses: GNS111 (2), GNS112 (2) = 4 Credits

Electives Courses: At least 6 Credits: ENG 101 (2), LIN 101 (2), FRE 131 (2), LIN 108 (2), MAC 111 (2), and/or any relevant course from other Department  
= 6 Credits  
Total = 30 Credits

200 Level

Compulsory Courses: FRE 210 (3), 211 (2), 213 (3), 215 (2), 221 (2), 223 (2), 225 (2)  
= 16 Credits

Required Courses: GRM 201 (2), 202 (2), GNS 211 (2), 212 (2) FRE 241 (2)  
= 10 Credits

Elective Courses: At least 4 Credits: FRE 231 (2), 233 (2), 242 (2), 243 (2), and/or a two units 100L course in Sociology or any other course.  
= 4 Credits  
Total = 30 Credits

DE Students: GNS111 (2) & GNS112 (2)  
= 4 Credits  
Total = 34 Credits

300 Level

Compulsory Courses: FRE 310 (2), 311 (3), 315 (2), 320 (2), 321 (2), 325 (2), 327 (2)  
= 16 Credits

Required Courses: GRM 301 (2), 302 (2), GSE 301 (2), GNS 311 (2)  
= 8 Credits

Electives Courses: At least 6 Credits from the following: FRE 331 (2), 333 (2), 335 (2),
341(2), 343 (2), 345 (2) = 6 Credits
Total = 30 Credits

400 Level

Compulsory Courses: FRE 499 (5), 410 (2), 411 (2), 413 (2), 420 (2), 423 (2) = 15 Credits

Electives Courses: At least 16 Credits from the following:
FRE 431 (2), 433 (2), 435 (2), 437 (2), 439 (2), 441 (2), 443 (2), 445 (2), 447 (2), 449 (2) = 16 Credits
Total = 31 Credits

Graduation Requirements:
UTME - 121 Credits
DE - 95 Credits
DEPARTMENT OF HISTORY AND INTERNATIONAL STUDIES

Course Description

B.A. History & International Studies

HIS 101  Nigeria from 1500 AD to 1800 AD  3 Credits
Historical developments from about 1500 AD to 1800 AD. State formation and inter-group relations politics religion, economy and socio-cultural activities.

45h (T); C

HIS 104  North Africa from the First Conquest of Egypt to 1500 A. D  3 Credits

45h (T); C

HIS 109  History of International Relations and Diplomacy  3 Credits
Scope of international relations, international law, and interaction between nation-states. International politics and international systems. Functions and limitations of diplomacy. Types of diplomacy: traditional, conference, preventive diplomacy. Diplomatic relations, negotiations, pacts and treaties,

45h (T); C

HIS 110  Blacks in the Diaspora  
3 Credits
Black communities found outside their home lands. Factors responsible for their dispersal and their roles in contemporary world affairs.
45h (T); E

HIS 122  Economic and Diplomatic Relations of West Africa up till the 20th Century  
3 Credits
History of diplomacy. Meaning and classifications of diplomats and consuls. Duties and functions of diplomatic and consular personnel. Establishment and termination of diplomatic relations, diplomatic privileges and immunities. Concept of policy and strategic studies. Elements and types of strategy. Major economic developments and activities in the West African region in the 19th century, highlighting the motivating factors of demand and supply from within, and the external factors engendered by the European penetration of West Africa and the industrial revolution in Europe.
45h (T); C

HIS 127  Introduction to Archaeology and Major World Civilisations  
3 Credits
Archaeology: meaning, development, methods, principles and techniques. Relevance of inter-disciplinary approach to the study of history. Reconnaissance, excavation, artifact study and museum. Case studies include Nok, Benin, Oyo and Igbo-Ukwu. General survey of some of the major world civilizations and their major contribution to historical developments including the Egyptians, the Arabs, the Greeks, the Romans, the Chinese and the Europeans.
HIS 128  Introduction to Political Economy of African States 1500-1900 AD     3 Credits
Relationship between politics and economics. Economics as determinants of politics. Class analysis and political power relations of African states. Production and politics with emphasis on the development of law in African society.
45h (T); C

HIS 201 The Nigerian Region 1800-1914 A.D.     3 Credits
Major developments, including internal and external factors, which brought the Nigerian communities into a nation state.
45h (T); C

HIS 204 History of Latin America from the 15th Century to the 20th Century     3 Credits
Early empires and civilizations. Incas and the Aztecs (Peru and Mexico), contact with Europe from the times explorations. Spanish and other colonialists. Struggle for independence including the railway boom and foreign factors. Development after independence, the French adventure, the 20th century problems of governance in the area; revolutions and instability.
45h (T); C

HIS 206 USSR in the 19th and 20th Centuries     3 Credits
Historical developments in Russian history: Russia under Alexander I; Russia and Ottoman Empire up to the Crimean War of 1853 to 1856 and the effects of the war, Serfdom, and Emancipation of 1861 under Tsar Alexander II. Growth of the press and universities and the emergence of a critical intelligentsia and revolutionary Marxism and industrialization in the late 19th century. The Russo-Japanese war 1904, Russian revolution of 1917, the Civil War, 1919-1920, the roles of social revolutionaries and the formation of USSR, Mensheviks, Lenin and his New economic policy, Stalin and “Socialism in one Country”, USSR in the second
world war and the Cold War. The emergence of the Socialist economic bloc and its orientation and characteristic features, the fall of the Berlin wall and the disintegration of the USSR.

**HIS 207  Africa and European Imperialism**  
3 Credits  
Internal and external factors and developments which created the setting in Europe and Africa for European imperialism and its impact on Africa and the world. 

**HIS 208  History of East and Central Africa since 1800 AD**  
3 Credits  
State formation and consolidation in this region analyzing the internal and external factors of warfare, conquest and trade. Arab and European imperialism; independence movements, regional organisations and the struggle for survival.

**HIS 209  History of the Ottoman Empire and North Africa since 1590 AD**  
3 Credits  
History of North Africa and Ottoman Empire since the 16th century using the fall of Constantinople as a background. Highlight of subsequent development of Ottoman Turkey in international relation to the treaty of Kutchuk Kinarji 1774, Crimean war, 1853-1856, the crises of the Young Turks, 1908, the Balkan wars 1911-1913 and the First World War, 1914-1918.

**HIS 210  Europe from the French Revolution to the 2nd World War**  
3 Credits  
Impact of French revolution on Europe and the subsequent development leading to the 2nd World War and the inter-war years and the Second World War and their impact.

45h (T); C
HIS 212  Foundation of African Culture and Civilisations     3 Credits
Man, culture and technology in Africa and the changes that have produced the “classical” cultures of African peoples.
45h (T); E

HIS 221  Philosophy of History and International Studies     3 Credits
Nature of history and international relations, their development as academic disciplines and their relevance to the society.
45h (T); C

HIS 307  History of the Commonwealth     3 Credits
Process, arguments and activities by which the old British Empire ruled from Whitehall and transformed into a Commonwealth of independent and friendly nations. Imperial Federation idea, Colonial conferences of 1897, 1902, 1887, 1911, the First World War and its effects, imperial conferences of 1917, 1921, 1923, 1926 and the Balfour declaration. Imperial conferences of the 1930s, World War II and its effects, and the decolonization process. The modern Commonwealth of Nations.
45h (T); C

HIS 322  History Research Methods     3 Credits
Sources of information, the methods of collections, analysis, usage and evaluation of historical data. Practical exposure to the library, the archives, and field work for the collection for oral tradition.
45h (T); C

HIS 323  History of Southern Africa from 1652 to the Present     3 Credits
Internal developments in the Southern Africa region and external factor of the Europeans as adventurers, explorers, settlers, miners and rulers up to the present. Developments in Southern Africa in the 20th century. The defeat of local resistance and the
introduction of the Portuguese rule in Angola and Mozambique, extension of the British South African company (BSAC), the creation of the native affairs development in Angola, termination of German rule in Namibia, formation of African National Congress, institutionalization of apartheid policy in South Africa, domestic and international oppositions to apartheid, Nationalists struggle against white minority regimes and for independence in the various southern Africa States. Post-independence developments in the Southern African States.

**HIS 326  International Political and Economic Systems since 1945**  
3 Credits  
Developments and nature of the international political economy. Theories and concepts of imperialism, hegemony and globalisation. The major world wars (1st and 2nd), the crises in Vietnam, Middle East, Angola and Southern Africa, the emergence of World Super Powers, the cold war and threats to peace. Efforts to resolve world crises through international organisations. Competing world blocks: NATO and the Warsaw Pact. Development of weapons by the Super Powers and poverty in the Third World countries. Establishment, evolution and nature of the contemporary political systems. Scope and major trajectories of the various issues in the international agenda.

**45h (T); C**

**HIS 328  Africa and International Affairs in the 20th Century**  
3 Credits  
Political and economic developments within Africa and international relations among African states and the outside world. Efforts of the African States in regional and continental organisations to solve the problems of political instability and continental unity.

**45h (T); C**

**HIS 329  Field Trip**  
2 Credits  
Field trip to governmental, quasi-governmental and non-governmental institutions to gain firsthand experience in policy formulation, analysis and implementation. Each student is required to submit a field trip report.
HIS 330  The Third World in International Relations                 3 Credits
45h (T); E

HIS 331  History of the USA since 1945                                3 Credits
Economic development in the U.S.A. Issues of slavery, the Civil War, reconstruction after 1865 and industrialization in the 19th Century.
45h (T); C

HIS 403  Economic History of Nigeria in the 20th Century              3 Credits
Factors of change and continuity in the patterns of economic activities in Nigeria. Political, economic antecedents and colonial setting. Infrastructural development and the exploitation of agricultural and mineral resources. Manpower needs, training and issues of labour.
45h (T); C

HIS 404  OAU and AU: Issues in African International Relations       3 Credits
45h (T); C
HIS 405  Development of Parliamentary Systems (Britain, France and India)  3 Credits
Comparative discussion of parliamentary systems as practiced by Britain, France and India. Common trends and distinguishing differences viewed against the varying historical experiences of the communities involved.
45h (T); C

HIS 406  Contemporary History of the Middle East     3 Credits
The Palestinian question. Effects of the Second World War and the creation of the state of Israel on the region; the Suez Crises; the Arab-Israeli conflicts; the role of the Super Powers and the efforts at bringing peace to the region.
45h (T); C

HIS 407  Special Paper                   4 Credits
Students are to choose any one of the following themes, which are aimed at exposing students to the use of documents to interpret historical development: The Mau-Mau; Evolution of Nigerian Administration; The Atlantic Slave Trade; Power and politics in 19th century Hausa land; Trade and politics in the Middle Niger and lower Benue 1830-1900; Ilorin and its region 1850; Indigenous technology in West Africa since 1850; The struggle for Nigeria’s independence 1945-1960. Africa and European Imperialism 1880-1914; The O.A.U.: A study in the Quest for African Unity 1960-1963; Economic Change in Lagos and its Hinterland 1880-1914; The Nigerian Civil War 1967-1970; Pre-history of the Nigerian region
60h (T); C

HIS 410  History of Science and Technology from 1500-1980                       3 Credits
Developments, which have taken place in Science and Technology
45h (T); C

HIS 411  Land and Labour in Africa
3 Credit
Land and labour in Africa. Traditional land tenure systems in Africa; patterns of responses to the dynamics of changes occasioned by population explosion and environmental challenges. History of Labour from the stage of self-employment to hired (wages) and organized labour and their Unions and the question of governmental control.

45h (T); E

**HIS 412 Philosophy of History**  
History, its development as a discipline and its relevance to the society.  
45h (T); C

**HIS 421 African and European Political Thoughts**  
Modern African political thoughts. Consideration of the works of Plato, Aristotle, Russell, Hobbes, Roseau, Bodin, Machiavelli and others and the effect of these works on the nature and evolution of the modern state systems  
45h (T); C

**HIS 422 African Government and Politics**  
45h (T); E

**HIS 423 Problems and Prospects of Regional Integration in Africa**  
Regional organizational setup in Africa and the joint efforts of the African States to facilitate economics developments. Problems encountered and the prospects of such efforts  
45h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HIS 424</td>
<td>Conduct and Administration of External Relations</td>
<td>3</td>
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<td>Conduct and administration of Nigerian Foreign policy from independence to the present. The structure, instruments and machinery of foreign policy making and implementation under the various regimes and the major facets of Nigeria’s external relations.</td>
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<td>45h (T); C</td>
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<tr>
<td>HIS 426</td>
<td>Themes in History and International Studies</td>
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<td>Perspectives in history and international affairs based on selected themes such as war, peace, treaties, imperialism, environmental crises, terrorism and globalization.</td>
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<td>15h (T); C</td>
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<tr>
<td>HIS 499</td>
<td>Project</td>
<td>5</td>
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<td>Each student, under the guidance of an approved supervisor is required to conduct research in an area approved by the department, culminating in the submission of a project.</td>
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<td>225h (P); C</td>
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</table>
SUMMARY

100 Level

Compulsory Courses:  
HIS 101 (3), HIS104 (3), HIS122 (3), HIS127 (3), HIS128 (3)  
= 15 Credits

Required Courses:  
GNS 111(2)112(2)  
= 4 Credits

Departmental Elective Courses:  
HIS109 (2), HIS110 (2)  
= 4 Credits

Elective Courses:  
At least three (3) Credits from courses offered by other Departments in the Faculty of Arts:  
RCS 123 (2), RIS 121 (1)  
= 3 Credits

TOTAL  = 26 Credits

200 Level

Compulsory Courses:  
HIS 201(3), HIS 204 (3), HIS 206 (3), HIS 207 (3), HIS 208 (3), HIS 221 (3),  
= 18 Credits

Required Courses:  
GNS 211(2), 212(2)  
= 4 Credits

Departmental Elective Courses:  
HIS 209 (2), HIS 210 (2), HIS 212 (2)  
= 6 Credits

Elective Courses:  
At least three (3) Credits for courses offered by other Departments in the Faculty of Arts:  
RCS 222 (2), RCR 225 (2), RIS 224 (1)  
= 3 Credits

TOTAL  = 31 Credits

Direct Entry Students:  
GNS111 (2), 112 (2)  
= 4 Credits
Total DE = 35 Credits

300 Level

Compulsory Courses: HIS 307(3), HIS 322(3), HIS 324(3), HIS 326(3), HIS 328(3), HIS 329(2), HIS 331(3) = 21 Credits

Required Courses: GNS 311(2) GSE 301(3) = 5 Credits

Departmental Elective Courses: HIS 323 (3), HIS 330 (3) = 6 Credits

Elective Courses: At least Five (5) Credits for from courses offered by other Departments in the Faculty of Arts: RCS 328 (2), RCS 329 (1), RIS 337 (1) = 5 Credits

TOTAL = 35 Credits

400 Level


Elective Courses: At least three (2) Credits from HIS 410 (2), 423 (2) = 2 Credits

TOTAL = 38 Credits

Graduation Requirements:

UTME = 130

DE = 98
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>LIN 101</td>
<td>Introduction to Linguistics I</td>
<td>3</td>
<td>Definition of linguistics, aims and scope: descriptive, historical, comparative. Sociolinguistics and applied linguistics. Application of linguistics to language teaching, book publishing, machine translation, telecommunication, speech pathology and audiology. Language and relation to animal communication and other artificial forms of communication, its relationship to culture. 30h (T), 45h (P); C</td>
</tr>
<tr>
<td>LIN 102</td>
<td>Introduction to Linguistics II</td>
<td>3</td>
<td>Linguistic concepts: phoneme, distinctive features, morphemes, etc. Introduction to Linguistic methodology and formal description of language. 30h (T), 45h (P); C. PR:LIN 101</td>
</tr>
<tr>
<td>LIN 103</td>
<td>Introduction to General Phonetics I</td>
<td>3</td>
<td>Phonetics as part of linguistics. Speech organs and individual functions. Airstream mechanism and their parameters for differentiating and sub-classifying them with illustrations from African languages. 45h (P); C</td>
</tr>
<tr>
<td>LIN 104</td>
<td>Introduction to General Phonetics II</td>
<td>3</td>
<td>Practical course in ear training. Performance and transcription exercises on a variety of languages, preferably African languages. Introduction to acoustic, phonetics and the study of the non-segmental features of speech such as tone, stress and intonation. 45h (P); C</td>
</tr>
<tr>
<td>LIN 105</td>
<td>Languages of the World</td>
<td>3</td>
<td>Major language families of the world: geographical distribution and linguistic description. Characteristics of speakers, location, use, roles in education, public administration, commerce, mass media and official policy towards them (emphasis on Nigerian languages). 45h (T); C</td>
</tr>
<tr>
<td>LIN 106</td>
<td>Traditional Grammar</td>
<td>2</td>
<td>Introduction to Traditional Grammar: evolution, underlying principles and assumptions. Categorization of words and structure.</td>
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</tbody>
</table>
Sentence parsing. Specific Traditional Grammars of English and Nigerian languages.
30h (T); C

LIN 107  History of Linguistics  3 Credits
Historical development of linguistics as a scientific discipline. Emphasis on the various 'schools' and models and the outstanding names in the discipline of linguistics. Attention to be paid to contributions to language study by linguists and institutions in Nigeria.
45h (T); C

LIN 108  Language Use and Language Attitude  2 Credits
Uses of language in different communities: business, administration, formal education, law making, entertainment, magic, etc. Different communities' languages, the role of education, linguistic purism; aesthetic considerations, politics, religions, etc. in shaping such attitudes.
30h (T); C

LIN 201  Introduction to Phonology  2 Credits
Relationship between phonetics and phonology in a structural framework and the principles of phonology. Basic tenets and analysis based on the phonemic theory, the distinctive theory, and generative phonology, distinctive and non-distinctive sounds, the phoneme and principles of phonemic analysis.
15h (T), 45h (P); C

LIN 202  Phonemic Analysis  2 Credits
Introduction to phonological analysis, distribution, distinctive and non-distinctive sounds. Phonemes and main principles of phonemic analysis.
15h (T), 45h (P); C. PRE: LIN 201

LIN 203  Introduction to Morphology  3 Credits
30h (T), 45h (P); C

LIN 204  Morphologies of African Languages  2 Credits
Analysis of the morphologies of selected African languages (e.g. Bantu and Kwa)
15h (T), 45h (P); C

LIN 205  Phonetics of English and Nigerian Languages  2 Credits
Detailed phonetic description, classification and analysis of sounds of English language in comparison with those of selected Nigerian languages.

15h (T), 45h (P); C

LIN 206 Orthography Design
Role of the linguist in determining the genetic classification of the major languages in Africa. Major language families of Africa, highlighting their geographical distribution and linguistic description. Emphasis on characteristics of speakers, use of the languages in education, public administration, commerce, mass media, etc.

90h (P); C

LIN 207 Writing Systems: Graphic Representation
Introduction to the relationship between language and writing, versus the needs of a developing technological and literate society. Nature of writing and writing systems. Elementary principles for designing orthographies. Introduction to the orthographies of Igbo, Hausa and Yoruba. Different types of writing systems, the function of writing and the relationship between language and literacy.

15h (T), 45h (P); C

LIN 208 Introduction to Syntax I
An introduction to the study of syntax. Basic concepts on sentence analysis. Discussion of the basic word order as one of the universals of human languages. An introduction to syntactic rules under different grammatical models. Identification of major lexical categories. Illustration of how determiners modify NP’s in different languages with different basic word order: pre-modification, post-modification, syntactic relationship, phrase structure rules, phrase markers, and exemplification.

30h (T); C

LIN 301 Introduction to Syntax II
The sentence as a unit of linguistic description. Major constituents of a sentence: noun phrase, verb phrase, prepositional phrase, etc. Grammatical types of sentences: simple, compound, complex. Types of clause structures: main, subordinate, complement, adjunct, among others as generative grammar.

30h (T), 45h (P); C

LIN 302 Generative Syntax
History, theory and practice of the generative transformational model with emphasis on the explanation of the basic assumptions, goals and concepts postulated in the model: deep and surface structures, base and transformational rules, the lexicon. Practical application of concepts and assumptions in the analysis of syntactic data: focus, relativization, passivization, deletion, ellipsis, movement, substitution, etc.
LIN 303  Survey of Applied Linguistics  3 Credits
General linguistics for practical uses and non-linguistic fields: language teaching and testing, language standardisation, planning and development, the creation of orthographies and compilation of dictionaries, telecommunication, translation, speech pathology and therapy, stylistics, language materials development. Role of linguistic principles and techniques in each discipline.  
30h (T), 45h (P); C

LIN 304  Field Methods and Introduction to Research Methodology  3 Credits
Practical instructions in techniques involved in linguistic field work. Supervised application of techniques of data elicitation and techniques of phonological, tonemic and syntactic analysis of a Nigerian language. Organisation and writing of project reports in specific domains of linguistics: Descriptive and Applied Linguistics, Sociolinguistics and others.  
15 (T), 90h (P); C

LIN 305  Introduction to Sociolinguistics  3 Credits
History, scope and methodology, basic concepts and application of socio-linguistics. Relationship between language and society. Emphasis on attitudes towards language varieties and social dialects, problems of multilingualism, and language in relation to national development.  
30h (T), 45h (P); C

LIN 306  Generative Phonology  2 Credits
15h (T), 45h (P); C  PR: LIN 205

LIN 308  Error and Contrastive Analyses  2 Credits
Principles, goals and practice of error and contrastive analyses. Applications and limitations with respect to language materials development and second language pedagogy.  
15h (T), 45h (P); C

LIN 309  Phonetics  2 Credits
Acoustic phonetics and simple experimental techniques of investigating the physiological and acoustic properties of sounds. Emphasis to be on practical analysis.
LIN 310 **Language Materials Development** 2 Credits
Theories of language learning and their relevance in the preparation of language teaching materials. Mother tongue teaching materials. Linguistic considerations in the preparation of primers and readers, as well as in the designing of drills and exercises. Second language teaching materials. Linguistic considerations in the construction of phonetic and syntactic drill, lexical grading, and exercises. Evaluation of language textbooks and their adaptation to specific classroom situation.
30h (T); E

LIN 311 **Language Testing** 2 Credits
Goals and methods of language testing. Types of language tests. Principal techniques of language testing. Methods and problems of testing various language skills. Evaluation of language tests and results. Basic statistics in determining significant test norms.
15h (T), 45h (P); E

LIN 313 **Linguistics and Language Teaching** 2 Credits
Detailed consideration of the application of linguistics to various aspects of language teaching. First language acquisition and second language learning. Psycholinguistic and sociolinguistic factors in language learning and teaching. Linguistic technique in language teaching: error analysis, discourse analysis and language testing. Linguistic foundations of language teaching methods, including grammar translation, audiolingual and cognitive code.
15h (T), 45h (P); E

LIN 315 **Linguistics and Translation** 2 Credits
Detailed consideration of the application of linguistic techniques to translation. Different types of translation. Different types of texts to be translated and the degree of equivalence required. Criteria for determining accuracy of translation. Role of referential and connotative meanings in translation. Functions of translators and interpreters in a multilingual setting. Focus will be on practical translation and interpretation.
15h (T), 45h (P); E. PR: LIN 203 and LIN 204

LIN 316 **Introduction to African Linguistics** 3 Credits
Findings of various works on African languages with special reference to information on structural characteristics, phonological and grammatical (e.g. tone and Bantu-type Noun Classification). Classification of African languages based on their characteristics. Principles based on comparison, re-construction and classification. Phonological, morphological and syntactic characteristics of African languages or properties of various language families of Africa, vowel harmony, noun classes, concord, verb serialisation, ideophones, labio-velars and clicks.
30h (T), 45h (P); C
LIN 319 Structure of a Nigerian Language I 2 Credits
Systemic and in-depth study of aspects of a Nigerian language with emphasis on the relationship between the various levels of grammar, phonetics, phonology, morphology and syntax.
15h (T), 45h (P); E

LIN 320 The Structure of a Nigerian Language II 2 Credits
Further application of Linguistics principles to the teaching of Nigerian Languages with emphasis on syntax.
15h (T), 45h (P); E. PR: LIN 312

LIN 322 Discourse Analysis 2 Credits
Introduction to the Principle and Practice of Discourse Analysis. Topics include standards of textuality, co-textual relations and critical analysis. Emphasis on practical analysis, study and description of relevant textual materials, advertisement, news headlines, cartoons and political statements.
15h (T), 45h (P); E

LIN 323 Semantics 3 Credits
Introduction to the study of semantics. Place of meaning in linguistics. Theories of Meaning, use and reference. Semantic fields, synonymy, hyponymy, paraphrase, lexical and structural meanings, logical operators, quantification, scope, sense properties, sense relations, problems of word versus sentence and Syntax versus semantics. Relations in semantic theories.
30h (T), 45h (P); C

LIN 401 Topics in Phonology 2 Credits
30h (T), 45h (P); C

LIN 403 The Problems of a Multilingual Nation 2 Credits
Psychological and socio-cultural setting of language contact and interference, mechanism of interference, the bilingual individual’s aptitude, code switching, relative proficiency, emotional involvement, psychological theories of bilingual or multilingual settings.
15h (T), 45h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LIN 405</td>
<td>Historical and Comparative Linguistics</td>
<td>2</td>
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<td></td>
<td>Introduction to the nature and levels of language change and genetic relationship. Techniques and methods of studying the history of language including comparative method, internal reconstruction and lexicostatics. Exemplification from and application to Indo-European and African language families.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>LIN 406</td>
<td>Dialectology</td>
<td>3</td>
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<td></td>
<td>Theory of dialect differentiation with practical applications to the language(s) of the area in which the university is situated.</td>
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<td></td>
<td>30h (T), 45h (P); C</td>
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<tr>
<td>LIN 408</td>
<td>Psycholinguistics</td>
<td>3</td>
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<td></td>
<td>30h (T), 45h (P); C</td>
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<tr>
<td>LIN 410</td>
<td>Theories of Phonology</td>
<td>2</td>
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<td></td>
<td>Goals, procedures and tenets of major current phonological theories: classical or autonomous phonemics, prosodic analysis and generative phonology.</td>
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<td>15h (T), 45h (P); E</td>
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<tr>
<td>LIN 411</td>
<td>Experimental Phonetics</td>
<td>2</td>
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<td></td>
<td>Mechanism involved in speech, using experimental techniques. Physical nature of speech. Advanced work on acoustic phonetics.</td>
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<td>15h (T), 45h (P); E</td>
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<tr>
<td>LIN 412</td>
<td>Phonetics of a Nigerian Language</td>
<td>2</td>
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<td></td>
<td>Research in experimental phonetics. Phonetic properties of one or more Nigerian languages: labio-velars and pre-nasalized segments. Readings on relevant experimental research.</td>
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<td></td>
<td>15h (T), 45h (P); E</td>
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<tr>
<td>LIN 414</td>
<td>Pidgin and Creole Languages</td>
<td>2</td>
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<tr>
<td></td>
<td>Origin, nature and development of pidgin and creole languages. Language contact, pidginization and creolisation in relation to simplification, restructuring and relaxation. General characteristics of pidgins and creoles, with exercises in tape-transcription and analysis of pidgin and creole corpus.</td>
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<tr>
<td></td>
<td>15h (T), 45h (P); E</td>
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</tbody>
</table>
LIN 415  Yoruba Contrastive Studies  2 Credits
Systematic examination of the structure of Yoruba contrasted with those of Hausa, and Igbo, with emphasis on those areas requiring special attention in teaching the language to speakers of the other two languages. Preparation and evaluation of materials for teaching Yoruba as a second language.
15h (T), 45h (P); E  PR: LIY 301 and LIY 303

LIN 416  Igbo Contrastive Studies  2 Credits
Systematic examination of the structure of Hausa contrasted with those of Igbo and Yoruba with emphasis on those areas requiring special attention in teaching the language to speakers of the other two languages. Preparation and evaluation of materials for teaching and testing Igbo as a second language.
15h (T), 45h (P); E

LIN 417  Hausa Contrastive Studies  2 Credits
Systematic examination of the structure of Hausa as contrasted with those of Igbo and Yoruba with emphasis on those areas requiring special attention in teaching the language to speakers of the other two languages. Preparation and evaluation of materials for teaching Hausa as a second language.
15h (T), 45h (P); E

LIN 421  Topics in Syntax  3 Credits
Study of theory of syntax with individual syntactic analysis of African language data: various syntactic processes, nominalization and complementation, relativization, verb serialization and apposition. Argumentation and evaluation of solutions or analyses within this theoretical framework. Working knowledge of one theory of syntax.
30h (T), 45h (P); C

LIN 422  Theories of Syntax  2 Credits
Detailed discussion and emphasis of the historical antecedents and the contents of some of the current theories of syntax: Systemic Grammar, Government and Binding theory, relational Grammar, stratificational grammar and application of any two of the models to African Languages.
15h (T), 45h (P); C

LIN 424  Lexicography  3 Credits
History of lexicography, dictionaries, thesauruses and encyclopaedias. Types of dictionaries: scholarstic, specialized, general purpose; dictionaries of synonyms, etc. Monolingual and bilingual dictionaries. Linguistic and non-linguistic factors in the compilation of dictionaries. Size, price-range and uses. Place and role of sociolinguistics, semantics, syntax, phonetics and
phonology. Practice in constructing dictionary entries.
30h (T), 45h (P); C

LIN 425 Linguistics and Book Publishing 2 Credits
Publishing houses. Types of publishing. Types of editors: creative, procurement and copy. Requisite training. Differences between written and spoken languages. Compensatory devices built into written languages. Factors aiding or inhibiting publishing in different types of languages. Application of syntax, semantics and phonology in editing and in proof-reading.
15h (T), 45h (P); E

LIN 426 Pragmatics 2 Credits
Scope, goals, principles and emerging theories of pragmatics. Socio-cultural and linguistic rules of correct interpretation of terms in the real world. Presupposition, context, locutionary, illocutionary and perlocutionary acts, speech acts, intention, interference, conventional and conversational implicatures.
15h (T), 45h (P); E

LIN 428 Language Policy and Planning 2 Credits
Factors relevant to language policy. Principles that determine the choice and implementation of language policy with emphasis on the techniques of language planning. Cost account analysis, principles and techniques of orthography, language codification and standardisation. Evaluation of planning and implementation of the planned language.
30h (T); C

LIN 499 Project 5 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department, culminating in the submission of a project.
225h (P); C
SUMMARY

100 LEVEL

Compulsory Courses: LIN 101 (3), 102 (3), 103 (3), 104 (3), 105 (3), 106 (2), 107 (3), 108 (2) = 22 Credits

Required Courses: GNS 111(2), 112(2) = 4 Credits

Elective Courses: A 3 Credit course per semester in a natural language = 6 Credits

Total = 32 Credits

200 LEVEL

Compulsory Courses: LIN 201 (2), 202 (2), 203 (3), 204 (2), 205 (2), 206 (2), 207 (2), 208 (2) = 17 Credits

Required Courses: GNS 211(2), 212(2) = 4 Credits

Elective Courses: (a) A total of 6 Credit units in a natural language per session = 6 Credits
(b) A total of 6 Credit units per session in any of the following programmes: (History, English, Sociology, Communication, Anthropology, African Languages, Religions) = 6 Credits

Total = 33 Credits

DE Students: GNS111 (2) & GNS112 (2) = 4 Credits

Total = 37 Credits
300 Level
Compulsory Courses: LIN 301(3), 302(2), 303(3), 304(3), 305(3), 306(2), 316(3), 308(2), 323 (3)
= 24 Credits

Required Courses: GNS 311(2), GSE 301(3) = 5 Credits

Elective Courses: A total of 6 Credit units per session from the following courses:
LIN 309 (2), 310(2), 315(2), 313 (2), 319(2), 320 (2) and
LIY 301 (3), 303 (3), and 322 (3) = 6 Credits
Total = 35 Credits

400 Level
Compulsory Courses: LIN 401 (2), 403 (2), 405(2), 406(3), 408(3), 428(2), 421(3), 422 (2), 424 (3), 499 (5)
= 27 Credits

Elective Course: A total of 6 Credit units per session from the following courses
LIN 410 (2), 411 (2), 412(2), LIN 414(2), 415(2), 416(2), 417(2),
425 (2) and 426 (2) = 6 Credits

Total = 33 Credits

Graduation Requirements:
UTME = 133 Credits
DE = 105 Credits
B. A. YORUBA

LIY 101  Introduction to Yoruba People and Language  3 Credits
Yoruba as a people, a language and an academic discipline. Origin of Yoruba people, thoughts, belief systems, myths and legends. Yoruba orthography, history and language.
30h (T), 45h (P); C

LIY 103  Advanced Comprehension and Composition I  3 Credits
30h (T), 45h (P); C

LIY 104  Advanced Comprehension and Composition II  3 Credits
Comprehension, composition and development of skills in speech making and writing.
30h (T), 45(P); C

LIY 105  Introduction to Linguistics I  3 Credits

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LIY 106</td>
<td>Introduction to Linguistics II</td>
<td>3</td>
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<tr>
<td>LIY 110</td>
<td>The Yoruba Language</td>
<td>2</td>
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<tr>
<td>LIY 112</td>
<td>Introduction to the History of the People</td>
<td>3</td>
</tr>
<tr>
<td>LIY 201</td>
<td>Survey of Yoruba Written Literature</td>
<td>2</td>
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<tr>
<td>LIY 202</td>
<td>The Use of Yoruba</td>
<td>2</td>
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<tr>
<td>LIY 203</td>
<td>Phonology of Yoruba Language I</td>
<td>2</td>
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<tr>
<td>LIY 204</td>
<td>Introduction to Yoruba Oral Literature</td>
<td>2</td>
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</tbody>
</table>

Linguistic concepts: phoneme, distinctive features, morphemes, among others. Linguistic methodology and formal description of language.

30h (T), 45h (P); C
literary genres.
15h (T), 45h (P); C

LIY 205 Yoruba Morphology 2 Credits
Systematic discussion of structure and forms of words: nouns, emphatic and non-emphatic pronouns, and word-formation.
15h (T), 45h (P); C

LIY 206 Readings in Yoruba Literature 3 Credits
Introduction to literary study of selected works in written literature. Poetry, drama, and various types of prose writings: novels, romances, short stories, essays, translation, among others.
30h (T), 45h (P); C

LIY 207 Yoruba Syntax I 2 Credits
Introduction to systematic study of Yoruba word-formation categories, major sentence types and grammatical analysis.
15h (T), 45h (P); C

LIY 208 Yoruba Folktales 2 Credits
15h (T), 45h (P); C

LIY 210 Principles and Practice of Translation 3 Credits
135h (P); E

LIY 213 Yoruba Creative Writing 3 Credits
Art of creativity in Yoruba. Major elements in creative writing, including setting, conflict, character, point of view, language, and organic whole.
30h (T), 45h (P); E

LIY 214 Yoruba Oral Poetry 3 Credits
Literary features of Ese Ifa, Elyere Ifa and Ofo. Differences between Ese Ifa and Lyere Ifa. Audience participation. Sociological background, structure and nature of Ofo.
30h (T), 45h (P); E

LIY 215 Dialects of the Yoruba Language 3 Credits
Phonological, morphological, lexical and syntactic characteristics of the major regional and social varieties.

LIY 217  Yoruba Phonetics  
3 Credits  
Phonetics of the Yoruba language. Articulatory and distinctive feature of the phonemes.

LIY 301  Phonology of Yoruba Language II  
3 Credits  
Analytical examination of phonological processes in Yoruba: syllable structure assimilation, nasalisation, epenthesis, vowel harmony, vowel elision, tonal processes, reduplication, and loan words.

LIY 303  Syntax of Yoruba II  
3 Credits  
Transformational-generative theory to the analysis of Yoruba sentences. Major sentence types Yoruba: declarative, interrogative, imperative, focus, and grammatical analysis.

LIY 304  Introduction to Drama in Yoruba  
3 Credits  

LIY 307  Yoruba Stylistics I  
3 Credits  
Yoruba stylistics. Theories and ideas of the relationship between stylistics, literature and linguistics. Literary features and devices of different genres of Yoruba literature.

LIY 308  Yoruba Literary Criticism  
3 Credits  
Practical application Classical, Western and Marxist theories of literature in prose, poetry and drama.

LIY 310  Yoruba Thoughts and Beliefs  
3 Credits  
Thoughts, beliefs and religious system of the Yoruba. Olodumare: God in Yoruba belief. Orisa: origin, nature, role and creation myths. Abiku: belief in the use of oogun (charms), incantations, ancestors, the priest, festivals, worship, and magic.
LIY 314  Yoruba Child Language
  Speech development in Yoruba Children.
  30h (T), 45h (P); E
  3 Credits

LIY 315  Yoruba Speech Abnormalities
  Speech abnormalities among the Yoruba.
  30h (T), 45h (P); E
  3 Credits

LIY 317  Advanced Yoruba I
  Readings in Yoruba Literature: prose, poetry, and drama. Advanced composition, conversation and speech making.
  135h (P); E. PR: LIY 210
  3 Credits

LIY 318  Advanced Yoruba II
  Advanced readings in Yoruba Literature
  135h (P); E. PR: LIY 317
  3 Credits

LIY 321  The Novels of D. O. Fagunwa
  45h (T); C
  3 Credits

LIY 322  Yoruba in Broadcasting and Advertising
  15h (T), 45h (P); C
  2 Credits

LIY 323  Varieties of Yoruba Poetry
  Poetic forms, background, content, structure, and functions of Esa, Rara, Ijala, Oriki, alamo: olele, and dadakuada. Recurrent themes; changing modes; and role of the audience. Performance and comparison various techniques of performing artistes; oral artiste: training, role, scope, originality and creativity.
  30h (T), 45h (P); C
  3 Credits

LIY 324  Introduction to the Yoruba Culture
  Yoruba culture: ways of life and institutions, kinship, marriage, child rearing, burial, inheritance, major occupations, apprenticeship

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>LIY 325</td>
<td>Naming in Yoruba</td>
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<td>Yoruba names: naming as a mental, emotional, linguistic and cultural affair.</td>
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<td>30h (T), 45h (P); E</td>
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<tr>
<td>LIY 328</td>
<td>Research Methodology in Yoruba Studies</td>
<td>3</td>
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<td>Research methodology: types, current methods of data collection in literary, linguistic and cultural studies, methods of documentation and presentation of research findings, referencing styles and practical instructions on aspects of writing research reports.</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>LIY 401</td>
<td>Issues in Yoruba Phonology</td>
<td>3</td>
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<td></td>
<td>Current and relevant issues in Yoruba phonology: tones, vowel harmony, syllable structure, loan words and intonation</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>LIY 402</td>
<td>Yoruba Social and Material Culture</td>
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<td></td>
<td>Description and analysis of the social and material aspects of Yoruba culture.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>LIY 403</td>
<td>Issues in Yoruba Syntax</td>
<td>3</td>
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<td></td>
<td>Current and relevant issues in Yoruba syntax: tense, aspect, relationships, nominalization, relativisation topicalisation, ideophones, pronominalisation, reflexivisation, adjectives and verbs.</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>LIY 404</td>
<td>Introduction to the Yoruba Traditional Music</td>
<td>2</td>
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<td></td>
<td>Forms, functions and qualities of Yoruba traditional music.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>LIY 405</td>
<td>Yoruba Stylistics II</td>
<td>3</td>
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<td>Stylistic features of Yoruba writings, prose and poetry. Principles of discourse and textlinguistic analyses to specific works of Yoruba literature.</td>
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<td>30h (T), 45h (P); C</td>
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<td>PR: LIY 307</td>
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</tbody>
</table>
LIY 406  Contemporary Yoruba Prose Fiction  3 Credits
Analytical study of Yoruba prose fiction outside the Fagunwa tradition of novel writing. Characteristics, types, and new trends of thrillers and detectives in Yoruba novel writing. Specific works of Delano, Odunjo, Yemiitan, Isola, Okediji and Akinlade.
30h (T), 45h (P); C

LIY 408  Yoruba Contrastive Studies  3 Credits
Structure and teaching of Yoruba as contrasted with those of English, Hausa and Igbo. Preparation and evaluation of materials for teaching and testing Yoruba as a second language.
30h (T), 45h (P); C

LIY 409  Yoruba Drama  3 Credits
Influence of Traditional and folk drama on the society. Early attempts at Yoruba play writing: E. A. Akintan; translation of Christian plays; study and appraisal of plays by Faleti, Olabimtan, Isola and Okediji Olu, Daramola and Lawuyi Oggunniran. Historical plays, political and social satires.
45h (T); C

LIY 412  Early Yoruba Written Poetry  3 Credits
45h (T); C

LIY 414  Contemporary Yoruba Poetry  3 Credits
Appreciation of contemporary Yoruba poetry: Faleti, Esan, Ojo, Olabimtan, Oladapo, Adepoju, Aremu, Eleburu-Ibon, Arigbabuwo, Wale Akanni and others. Oral performance of these poems on radio, television and other devices.
45h (T); C

LIY 499  Project  5 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department, culminating in the submission of a project.
225h (P); C
Summary

100 Level

Compulsory Courses: LIY 101(3), 103(3), 104(3), 105(3), 106(3), 110(2), 112(3)
= 20 Credits

Required Courses: GNS 111(2)  GNS 112(2)  = 4 Credits
Elective Courses: A 3 Credit course in Linguistics per semester  = 6 Credits
Total = 30 Credits

200 Level

Compulsory Courses: LIY 201(2), 202(2), 203(2), 204(2), 205(2), 206(3), 207(3), 208(2)
= 18 Credits

Required Courses: GNS 211(2), 212(2), LIN 201(2), 203(3)  = 9 Credits
Elective Courses: A total of 6 Credit units per session from the following courses:
LIY 210 (3), 213 (3), 214 (3), 215 (3), 217 (3), 225(3)  = 6 Credits
Total = 33 Credits

Direct Entry students: GNS 111 (2) & 112 (2)  = 4 Credits
Total = 37 Credits

300 Level

Compulsory Courses: LIY 301(3), 303(3); 304(3), 307(3), 308(3), 321(3), 322(3), 323 (2), 324(3), 328 (3);
= 29 Credits

Required Courses: GNS 311(2), GSE 301(3)  = 5 Credits
Total = 34 Credits

400 Level

Compulsory Courses: LIY 401(3), 402(2), 403(3), 404(2), 405(3), 406(3), 408(3), 409(3),
414(3), 499(5)  Total  = 30 Credits
Graduation Requirements:

UTME = 131 Credits  
DE    = 105 Credits

DEPARTMENT OF THE PERFORMING ARTS

100 LEVEL

PFA 101  Introduction to Performing Arts  3 Credits  
Concept and form of the performing arts involving theoretical study of the forms and functions of music, dance and drama and technical theatre. Practical exercises selected from texts incorporating all areas.  
15h (T), 45h (P); C

PFA 102  Performing Arts Workshop I  3 Credits  
Detailed practical work on one of the texts studied culminating into stage performance.  
15h (T), 45h (P); C

PFA 103  History of the Performing Arts (Greek to Medieval)  3 Credits  
Historical survey of the art of performance in music, dance and drama within the Greek and Medieval period of Western Europe.  
45h (T);

PFA 105  Basic Communication Theory  2 Credits  
Basic models and theories of communication as the process evolves from individual perceptions, language habits and behaviour in interpersonal and social interactions.  
30h (T); C

PFA 108  Performing Arts in Kwara State  2 Credits  
Introduction to indigenous festival and theatre in form and content with a historical development perspective of performing arts in Kwara State.  
30h (T); R

PFA 110  Theatre for Development  3 Credits
The taxonomy of community theatre practice: history, types and methods. Major socio-political problem of a rural community to be thematically analysed and used as a module for stage production by the students with members of the community for dramatic presentation.

15h (T), 45h (P); C

**PFA 111 Fundamentals of Music and Choral Studies I**  
3 Credits
Rudiments of music theory and singing; Concepts of rhythm and meter, pitch, intervals, scales, form etc and choral singing (Western pieces)

30h (T) 60h (P); R

**PFA 114 Fundamentals of Music and Choral Studies II**  
3 Credits
Further studies of the rudiments of music theory and singing; Minor scales, compound and irregular times, setting words to music, vocal techniques etc and choral singing (African pieces).

30h (T) 60h (P); R

**PFA 125 Rudiments of Dance**  
2 Credits
Introduction to practical technical training in movement. Exposure to the basic dance steps of various Nigerian ethnic groups and how they could be developed in their idioms as modern dance and ballet. Introduction to dance notation.

15 (T), 45h (P); R

**PFA 126 Dance Studies I**  
2 Credits
Lectures in dance theory and its relevance to teaching and choreography.

15h (T), 45h (P); C

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### 200 LEVEL

**PFA 201 History of the Performing Arts (Africa and the Western World)**  
3 Credits
Developments of the arts of performance in music, dance and drama in post-colonial Africa and a cross-section of Asia and the Western world.

45h (T); C

**PFA 203 Performing Arts and Allied Courses**  
2 Credits
A study of the relationship between the performing arts and basic concepts in the sciences, social sciences and education.
PFA 208  Performing Arts Workshop II  
Performers’ response to various demands on him through stage realization of a performance. Further development in the three areas of music, dance and drama through a total theatre experience.
45h (P); C

PFA 209  Departmental Production Workshop I  
Students are to participate in at least two Departmental productions such as university convocation plays and commissioned performances. Further assessment of skills and artistry assessment in theory and practice.
45 (P); C

PFA 215  Theory of Music I  
A study of major and minor triads and their inversions in selected keys; chord formation and elementary harmony.
15h (T), 45 (P); R

PFA 217  Choral Studies  
Training in art of choral singing through a performance study of selected African and Western Pieces
45(P); R

PFA 218  African Music  
Introduction to African music and its cultural contexts. Music in rites of passage, ritual and non-ritual contexts. Basic rhythmic, melodic, harmonic and formal features
30h (T); C

PFA 220  Theory of Music II  
More studies on chords: Tonic 7th, Dominant 7th Chords, Major 7th, Chord of the sixth, augmented, diminished and other chord extensions and intermediate harmony.
15h (T) 45(P); R

PFA 225  Basic Choreography  
Elements of movement composition, dance patterns, motifs and combinations for movement interpretations and choreography
15(T) 45 (P); C

PFA 233  Introduction to Acting Skills and Techniques  
2 Credits
Theory and practice of basic skills and techniques in acting. Art of acting: emotional, psychological, physical and intellectual involvement.
15h (T) 45h (P); R

PFA 234  Dance Studies II 2 Credits
Study of works of national and international choreographers; analysis of selected productions
15h(T) 45h(P); R

PFA 235  Dramatic Literature 2 Credits
Dramatic texts in the genres of tragedy, satire, etc with special attention to their historical and socio-political backgrounds and contexts. Selection of dramatic texts to be taken from various periods and cultures
15h(T) 45h(P); R

PFA 236  Speech and Oral Interpretation 2 Credits
Speech delivery and oral interpretations of dramatic pieces, poetic renditions and the art of oral delivery.
15(T) 45(P); R

PFA 238  Technical Theatre 1 2 Credits
Introduction to technical theatre in scenography, electronics, lighting, acoustics, costume and make-up.
15h(T) 45h(P); C

PFA 239  Introduction to Radio and Television 2 Credits
Introduction to the theory and practice of broadcasting involving basic skills and techniques of the production process of programmes with special focus on music, dance and drama.
15h(T) 45h(P); R

PFA 240  Introduction Play Directing 2 Credits
Basic concepts in play directing; a study of the historical development of play directing in African and Western theatres
30h(T); C

PFA 241  Performing Arts and the Print Media 2 Credits
Core Issues in the print media in relation to the performing arts. Publication, editorial, feature writings, cartoon design and creative writing processes with particular reference to art features, play reviews (critical analysis of drama, dance and music) and other print media issues connected with the performing arts in general.
30h(T); E
### 300 LEVEL

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Hours</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>PFA 302</td>
<td>Performing Arts Workshop III</td>
<td>2</td>
<td>Music, dance and drama as total theatre and development of the performer’s techniques in the three areas of the performing arts. Stagecraft and theatre techniques drama, dance and music productions of considerable length.</td>
<td>15h (T); 45h (P); C</td>
<td></td>
</tr>
<tr>
<td>PFA 306</td>
<td>Department Production Workshop III</td>
<td>1</td>
<td>Participation in at least two Departmental productions including University Convocation production and commissioned performances with emphasis on the skills development and artistry.</td>
<td>45h (P); C</td>
<td></td>
</tr>
<tr>
<td>PFA 307</td>
<td>Theatre Administration</td>
<td>2</td>
<td>Management of the performing arts in various types of theatre planning and production. Supervision on theatrical operations in publicity, promotions, book-keeping, fund-raising, etc.</td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>PFA 308</td>
<td>Research Methods for the Performing Arts</td>
<td>2</td>
<td>Research methods for project writing with special focus on performing arts.</td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>PFA 309</td>
<td>Field Work in Children Theatre</td>
<td>2</td>
<td>Practical training in working with primary school children in creative theatre work.</td>
<td>15h (T); 45h (P); C</td>
<td></td>
</tr>
<tr>
<td>PFA 310</td>
<td>Field Work in Performing Arts and the Media</td>
<td>2</td>
<td>Advanced course in media production in the three areas of dance, music and drama. Exercises in adapting stage materials for radio and television.</td>
<td>15h (T); 45h (P); C</td>
<td><em>(Old PFA 303 with addition to the course title)</em></td>
</tr>
</tbody>
</table>
PFA 311 Acoustics and Electronics for Music Production  2 Credits
Basic principles of acoustics affecting musical instruments: string, wind, membrane, resonance, harmonies, etc. Architecture acoustics: Recording and reproduction of music.
30h (T); E

PFA 312 Nigerian Indigenous Theatre Forms  2 Credits
Form, social content and performance mode of traditional Nigerian music, dance, drama and the art of storytelling. Aspects of festival performances, rituals and rites of passage and the style of traditional professional theatre troupes.
30h (T); C

PFA 314 History of Music  2 Credits
History of Western art music from the classical period to the end of the Romantic period (for Music Specialists).
30h (T); E

PFA 315 Harmony and Counterpoint I  2 Credits
Use of diatonic chords (including the dominant 7th), passing and cadential 6/4s, elementary modulation. Exercises in part writing reflecting both European and African traditions (for Music Specialists).
30h (T); E

PFA 316 Harmony and Counterpoint II  2 Credits
Secondary 7th  Introduction to chromatic harmony and modulation to distantly-related keys (for Music Specialists).
30h (T); E. PRE: PFA 315

PFA 317 Music Directing  2 Credits
15h (T), 45h (P); E

PFA 318 Applied Music II  1 Credit
Individual tuition and exercises on principal and subsidiary instruments, including voice, keyboard harmony and aural training (for Music Specialists)
45h (P); E

PFA 319 Applied Music I  2 Credits
Further tuition and exercises on principal and subsidiary instruments, including voice. Further keyboard harmony and aural training (for Music Specialists). (Continuation of PFA 318).
PFA 323  Dance Workshop  2 Credits
Practical study and presentation of selected choreographed dance pieces. Selected works with emphasis on rhythm awareness, combined use of arms and legs, duet, trio, and group movement, stage arrangement, floor patterns, level and directional changes and dancers’ interaction (for Dance Specialists).
15h (T), 45h (P); E

PFA 324  Intermediate Modern Dance Technique  2 Credits
Intermediate level movement techniques, incorporating combination exercises in body stretches, quarter, half and full turns, runs and leaps, extension of range of motion in various joints of the body, body lines and curves and movement rhythm variations (for Dance Specialists).
90h (P); E

PFA 325  Advanced Choreography I  2 Credits
Composition and presentation of a full work of dance together with music, lighting and costume designs. Concept formation and research into dance subject matter. Audition process together with choreographic notes. Presentation and improvement on works-in-progress leading to photography sessions and a compilation of a production portfolio. (Duration of choreographed pieces: 3 minutes) (for Dance Specialists).
15h (T), 45h (P); E

PFA 326  Dance Analysis and Criticism I  2 Credits
Practical study of different movement techniques as they relate to the development of muscle strength and flexibility, elements of weight and quality of movement, direct and indirect movement approach. Movement theories and Dance notation (for Dance Specialists).
15h (T), 45h (P); E

PFA 327  Dance Kinesiology  2 Credits
30h (T); E
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFA 329</td>
<td>Dance Studies III</td>
<td>2</td>
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<tr>
<td></td>
<td>Dance work of at least 30 minutes duration. Conceptual framework of presentation to be performed. Different choreographic styles and techniques. Performance of completed project. During the second semester, writing assignments to be tailored towards the development of analytical and critical skills.</td>
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<tr>
<td></td>
<td>15h (T), 45h (P); E</td>
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</tr>
<tr>
<td>PFA 330</td>
<td>Dramatic Theory and Criticism (Drama Specialists)</td>
<td>2</td>
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<tr>
<td></td>
<td>Theories of drama from classical Greece till the present, including Africa. Evolution of theories and critical ideas vis-à-vis the peculiarities of the period and personalities concerned. Representatives play to be studied (for Drama Specialists).</td>
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<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>PFA 331</td>
<td>Advanced Acting (Drama Specialists)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>The psychology of acting. Exploratory study of art of acting in theory and practice. Acting schools and theories. Practical exercises covering a range of plays, African and Western (for Drama Specialists).</td>
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<tr>
<td></td>
<td>15h (T), 45h (P); E, PR: PFA 233</td>
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<tr>
<td>PFA 334</td>
<td>Introduction to Playwriting</td>
<td>2</td>
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<td></td>
<td>An introductory course designed to expose the students to the writing of play scripts. Students will have practical experience in writing dramatic texts on given topics and themes.</td>
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<td></td>
<td>15h (T), 45h (P); E</td>
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<tr>
<td>PFA 335</td>
<td>Performing Arts and Tourism</td>
<td>2</td>
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<td></td>
<td>The art of cultural tourism. Major global and national tourist centres and the roles of performing arts and performing artists in them (for Drama Specialists).</td>
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<td></td>
<td>30h (T); E</td>
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<tr>
<td>PFA 337</td>
<td>Directing I</td>
<td>2</td>
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<tr>
<td></td>
<td>Theory and practice of the art of directing. Chosen pieces from published works as in practical projects.</td>
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<tr>
<td>PFA 339</td>
<td>Advanced Studies in Costume and Make-up</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Theory and practice in the art of theatre design with emphasis on costume and make-up. In depth study of African, Western and Oriental theatre costume and make-up. Practical exercises on exhibitions of all the highlighted areas by students for examination.</td>
<td></td>
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<tr>
<td></td>
<td>15h (T), 45h (P); E</td>
<td></td>
</tr>
<tr>
<td>PFA 340</td>
<td>Advanced Directing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>In-depth study of directing styles, conventions and the techniques of master directors. Practical work in a directing project.</td>
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</tr>
</tbody>
</table>
PFA 342  Field Work in Dance and the Society  2 Credits  
Workshop/industrial attachment session with Private Professional Troupe. (Such may be invited to hold the workshop in the school or students may have to go and meet them at their studios. A written report by students at the end that shall lead to a seminal session).  
15h (T), 90h (P); E  

PFA 344  Technical Theatre II  2 Credits  
History of Technical Theatre focusing on stage designs, and construction, backdrops, painting, costumes, props, lighting, etc. Biographies and the design styles of notable technicians. Relationships between production styles and theatre technology. Practical work to reflect these styles.  
15h (T), 45h (P); E  

400 LEVEL  

PFA 401  Principles and Philosophy of Aesthetics  3 Credits  
Theories of aesthetics from Plato to the present. African views of aesthetics, meaning and the nature of beauty, semiotics and form. The logic of critical judgment on executing arts. Specific works as exercises in aesthetics.  
45h (T); C  

PFA 403  Advanced Theatre Management and Administration  2 Credits  
Management of the performing arts at an advanced level. (for Drama specialists).  
45h (T); E  

PFA 404  Contemporary African Drama  2 Credits  
Drama in Africa from about the late 1940s to the present time. Broad trends of socio-cultural factors that have influenced the content and form of representative plays.  
45h (T); E  

PFA 411  Form and Analysis  2 Credits  
Principles of form and analysis. Simple forms: binary, ternary, strophic and extended forms including the sonata form, the fugue and chain song variations. Inter-relationship of harmony, tonality and form. Analysis and analytical procedures based on music examples from both the European and African traditions (for Music Specialists).  
15h (T), 45h (P); E  

PFA 412  Applied Music III  2 Credits
Further training and exercises on principal and subsidiary instruments. Keyboard and aural training (for Music Specialists).
90h (P); E

PFA 413  Music Composition 3 Credits
Seminars on compositional techniques reflecting both the European and African traditions. Melody writing, thematic development, use of textures, formal coherence, multi-pitch constructions, etc (for Music Specialists).
15h (T), 90h (P); E

PFA 414  Applied Music IV 2 Credits
Advanced training and exercises on principal and subsidiary instruments, including voice. Keyboard and aural training (for Music Specialists).
45h (P); E

PFA 415  Orchestration 2 Credits
30h (T), 45h (P); E

PFA 416  Musicology 3 credits
45h (T); E

PFA 417  Twentieth Century Music 2 Credits
Detailed study of Twentieth Century Western Music focusing on stylistic developments: atonality, serialism, electronic music and the use of computer in the compositional process (for Music Specialists).
45h (T); E

PFA 418  Afro-American Music 2 Credits
Historical and stylistic development of Afro-American music from its early origins to the 20th Century (for Music Specialists).
30h (T); E

PFA 419  Contemporary Nigerian Composers of Art Music 2 Credits
Development of Nigerian contemporary art music as reflected in the works of representative composers: Fela Sowande, Akin Euba, Laz Ekwuenne, Sam Akpabot, Adam Fiberisima and Ayo Bankole (for Music Specialists).

30h (T); E

PFA 421  Dance Analysis and Criticism II  2 Credits
Advanced dance movement technique. Practical comparative study of two-selected modern dance techniques with emphasis on lines, curves movement possibilities and formations, philosophies behind formulated techniques and an interaction of both styles to formulate new steps (for Dance Specialists).
15h (T), 45h (P); E

PFA 422  Advanced Choreography II  3 Credits
A spontaneous exploration of movement potentials and possibilities based on suggested themes and concepts. Movement development from single gestures. Developments of personal movement styles. Special problems in dance composition and possible solutions to them, simplification or complications in dance movement (for Dance Specialists).
15h (T), 45h (P); C  PR : PFA 325

PFA 423  Advanced Dance Workshop  2 Credits
Practical group composition and presentation. Theme formulation making use of music, poetry, props and costume. (Dance piece thus formulated presented as a full stage presentation of at least 8 minutes duration).
15h (T), 45h (P); E

PFA 424  Twentieth Century Dance  3 Credits
Theoretical and practical identification of movement similarities and differences in dances of Africa, Asia and the West. Utilization of established cultural dance steps as sources for class movement development. Various Nigerian cultural dance steps. Dance formations from Asian art, Modern dance: Ballet, Jazz and Tap dancing, Aerobic dancing, Calypso, Reggae, etc (for Dance Specialists).
15h (T), 45h (P); E

PFA 425  Dance and the Media  3 Credits
Exercises that may lead to full fledged dance-film experiences. Experiments on concepts, techniques, forms and theories. Examination of the skill of dancing and choreography for the media (for Dance Specialists).
15h (T), 90h (P); E

PFA 426  Professional Dance Practice  3 Credits
Mini-Troupe formation and skill acquisition. Self-sustenance in dance practice. Concepts of independence and self sustenance and realities of the open market dance. Students to form a mini group within and outside the department. Exploration of areas of interests: pure dance practices, ballets, traditional dances, operatic dances, etc. The troupes to be registered under the course lecturer and all engagements closely monitored (for Dance Specialists).

15h (T), 45h (P); E

PFA 427 Dance Studies IV
Mounting dance works of 20 to 25 minutes duration. Convener to approve conceptual framework of the presentation. Three complete course work modules with each module comprising a practical and written component (for Dance Specialists).
15h (T), 45h (P); E

PFA 431 Performance Theory and Criticism
Performance and theatre theories and their practical application in the analysis and criticism of productions. Stage performances coupled with those of the electronic media (for Drama Specialists).
45h (T); E

PFA 432 Advanced Technical Theatre
Advanced stenography optics. Electronics as applied to stage lighting: production, costume design and make-up (for Drama Specialists).
15h (T), 90h (P); E

PFA 433 Playwrights Workshop
Advanced course in playwriting. (Only for students who show evidence of talent and skill in PFA 334) (for Drama Specialists).
15h (T), 90h (P); E

PFA 434 Twentieth Century Western Drama
Western drama in the 20th Century, including avant-garde (e.g. Absurdist) drama and experimental and community theatre. Emphasis on leading theories as well as outstanding play texts of the period (for Drama Specialists).
45h (T); E

PFA 435 Black American Drama
Drama of Black America from the late 19th Century to the present. Emphasis on major phases and developments. Representative texts and critical opinions (for Drama Specialists).
30h (T); E
PFA 436  **Theatre Directing for the Screen**  2 Credits
Screen production. Technicalities in handling technical screen equipment and the methods/approaches to theatrical direction in the screen production (home video and television). Pilot production to be carried out by a student as a demonstration of understanding of screen directing (for Drama Specialists).
15h (T), 45h (P); E

PFA 437  **African Directors and Directing Styles**  3 Credits
Advanced study into the psychology and pervading sociological factors of the major African theatre directors and their directing styles. A known African director and his directing style. Practical demonstration of the proficiency of his chosen director’s style (for Drama Specialists).
15h (T), 45h (P); E

PFA 499  **Research Project**  5 Credits
Each student under the guidance of an approved Supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project. Group performances and production notes are integral part of the research project
225h (P); C

Please note that due to the tripartite nature of the Department, some courses designated as electives (E) may be required or compulsory for students majoring in that area.

**SUMMARY**

**100 Level**

**Compulsory Courses:** PFA 101 (3), 102 (3), 103 (3), 105 (2), 110 (3), 126 (2)  =16 Credits

**Required Courses:** 108 (2), 111 (3), 114 (3), 125 (2), GNS 111 (2), GNS 112 (2)  =14 Credits
Elective Courses: At least 2 to 4 Credits from courses in the Faculty of Arts or elsewhere in the University

= 2 or 4 Credits

Total = 32 or 34 Credits

200 Level

Compulsory Courses: PFA 201 (3), 203 (2), 208 (1), 209 (1), 218 (2), 225 (2), 238 (2), 240 (2)

= 15 Credits

Required Courses: 215 (2), 217 (1), 220 (2), 233 (2), 234 (2), 235 (2), 236 (2), 239 (2), GNS 211(2), 212(2)

= 19 Credits

Elective Courses: PFA 241(2) or at least 4 Credits from courses in the Faculty of Arts or elsewhere in the University

= 4 Credits

Director Entry Students: GNS 111(2), 112 (2)

= 4 Credits

Returning Students Total Credits = 38 Credits

DE Total Credits = 42 Credits

300 Level

Compulsory Courses for all students: PFA 302(2), 306(1), 307(2), 308(2), 309(2), 310(2), 312(2)

= 13 Credits

Required Courses: GNS 311 (2), GSE 301(3)

= 5 Credits

Music Option:
Compulsory Course: PFA 311 (2), 314 (2), 315 (2), 316 (2), 317 (2), 318 (2), 319 (2)

= 14 Credits

Elective Courses: At least 2 to 4 Credits from courses in the Faculty of Arts or elsewhere in the University

Total = 34 or 36 Credits

Dance Option:
Compulsory Courses: PFA 323 (2), 324 (2), 325 (2), 326 (2), 327 (2), 329 (2), 342(2)

= 14 Credits
Elective Courses: At least 2 to 4 Credits from courses in the Faculty of Arts or elsewhere in the University

Total = 34 or 36 Credits

Drama Option:

Compulsory Courses: PFA 330(2), 331(2), 334(2), 335 (2), 337(2), 339 (2), 340(2), 344 (2)

= 16 Credits

Elective Courses: At least 2 to 4 Credits from courses in the Faculty of Arts or elsewhere in the University

Total = 36 or 38 Credits

400 Level

Compulsory Courses for all students: PFA 401(3), 499(5)

= 8 Credits

Dance Option:

Compulsory Courses:
PFA 421(2), 422(3), 423(3), 424(3), 425(3), 426(3), 427(3)

= 20 Credits

Total = 28 Credits

Drama Option:

Compulsory Courses:
PFA 403(2), 404(2), 431 (2), 432(3), 433(2), 434(2), 435(2), 436(2), 437(3) = 20 Credits

Total = 28 Credits

Music Option:

Compulsory Courses: PFA 411(2), 412(2), 413(3), 414(2), 415(2), 416(3), 417(2), 418(2), 419 (2)

= 20 Credits

Total = 28 Credits

Elective Courses: At least 2 to 8 Credits from courses in the Department, Faculty of Arts or elsewhere in the University
<table>
<thead>
<tr>
<th>Program</th>
<th>Compulsory Courses</th>
<th>Required Courses</th>
<th>Elective Courses</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>UME (Drama)</td>
<td>52</td>
<td>74</td>
<td>8</td>
<td>134</td>
</tr>
<tr>
<td>UME (Dance Option)</td>
<td>52</td>
<td>72</td>
<td>8</td>
<td>132</td>
</tr>
<tr>
<td>UME (Music Option)</td>
<td>52</td>
<td>72</td>
<td>8</td>
<td>132</td>
</tr>
<tr>
<td>DE (Drama Option)</td>
<td>36</td>
<td>64</td>
<td>6</td>
<td>106</td>
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<tr>
<td>DE (Dance Option)</td>
<td>36</td>
<td>62</td>
<td>6</td>
<td>104</td>
</tr>
<tr>
<td>DE (Music Option)</td>
<td>36</td>
<td>62</td>
<td>6</td>
<td>104</td>
</tr>
</tbody>
</table>
### DEPARTMENT OF RELIGIONS

#### Course Description

**B.A. Christian Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCS 121</td>
<td>The Formative Period of Israelite History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The ancient oriental background of Israelite origin: Mesopotamia, Egypt and Palestine. The Hebrew background of Israelite origins. The patriarchal narratives, the migration of the patriarchs, the patriarchs as figures of history, Egyptian bondage and Exodus. The wilderness wanderings. The conquest of Palestine. The Judges.</td>
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</tr>
<tr>
<td>RCS 122</td>
<td>Early History and Doctrine of the Church</td>
<td>2</td>
</tr>
<tr>
<td>RCS 123</td>
<td>Introduction to the Synoptic Gospels</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Characteristics and purposes of the Gospels. Authors, dates, sources and contents.</td>
<td></td>
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<tr>
<td>RCS 124</td>
<td>The Old Testament Prophets</td>
<td>2</td>
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<tr>
<td></td>
<td>Study of the major Israelite prophets. The functions of prophecy in Israelite history. The messages of the prophets and the situations to which the messages were addressed. Examination of Jeremiah, Ezekiel, Isaiah, Amos and Hosea.</td>
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<tr>
<td>RCS 125</td>
<td>The Messianic Concept in the Testaments</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>The Jewish Messianic idea. Development of the idea up to the birth of Jesus. Jesus and his understanding of the Messianic Kingdom. The identity of the Messiah. The Messianic hope and its consummation.</td>
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<tr>
<td>RCS 126</td>
<td>Jewish and Hellenistic Background to Christianity</td>
<td>2</td>
</tr>
<tr>
<td>RCS 127</td>
<td>The Gospel of St. Mark</td>
<td>2</td>
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</tbody>
</table>
Purpose, date, author and the main contents of the Gospel. Priority of Mark over the other Synoptic Gospels. Introduction of the Synoptic problem.

30h (T); C

**RCS 128**  
**Introduction to the Pentateuch**  
2 Credits  
30h (T); C

**RCS 129**  
**The Book of Genesis**  
2 Credits  
30h (T); C

**RCS 221**  
**Critical Introduction to the Bible**  
3 Credits  
Types of literature contained in the Old and New Testaments, Main problems involved and their solutions  
45h (T); C

**RCS 222**  
**History of the Church in Africa**  
2 Credits  
30h (T); C

**RCS 223**  
**Greek and Roman Religion**  
2 Credits  
Examination of the religious ideas and practices in Greek - Roman world.  
30h (T); C

**RCS 224**  
**Paul the Apostle**  
2 Credits  
Upbringing of Paul and his earlier religious views, conversion, work in Europe and Asia Minor. Paul the prisoner. Examination of the major themes of Paul: law, marriage, faith, righteousness, resurrection, judgment, family, life, government, Jesus and God.  
30h (T); C

**RCS 225**  
**Biblical Hebrew Grammar I**  
4 Credits  
60h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCS 226</td>
<td>The Life and Teaching of Christ</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Study of the birth, life and ministry of Jesus. Major themes of his teachings with emphasis on his doctrinal, ethical and social interpretations as they apply to contemporary society.</td>
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<td>15h (T); C</td>
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<tr>
<td>RCS 227</td>
<td>Soteriology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>RCS 228</td>
<td>History of Reformation</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
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</tr>
<tr>
<td>RCS 229</td>
<td>The Gospel of St. Matthew</td>
<td>2</td>
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<tr>
<td></td>
<td>Purpose, date, author and contents of the gospel with Sermon on the Mount.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>RCS 230</td>
<td>The Gospel of St. Luke</td>
<td>2</td>
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<tr>
<td></td>
<td>Life of St. Luke the Physician. Purpose, date and main contents of his gospel. Emphasis on the human source material and characteristics of the gospel.</td>
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<td>30h (T); E</td>
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<tr>
<td>RCS 231</td>
<td>Acts of the Apostles</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>RCS 232</td>
<td>Hermeneutics and Exegesis</td>
<td>2</td>
</tr>
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<td></td>
<td>Scientific method of deriving a teaching from the scriptures. Task of Exegesis. Pericopae as examples, taking the Old and New Testaments into consideration.</td>
<td></td>
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<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>RCS 233</td>
<td>Introduction to Missiology</td>
<td>2</td>
</tr>
</tbody>
</table>
General introduction to the field of Missiology. State of the church in the modern world and the current crisis in mission, Contextualization, inculturation, the place occupied by mission in the thought and practice of the Church in history. Some Nigerian pioneers in mission.

30h (T); C

RCS 234  Mission and Theology  2 Credits
Study of questions concerning the foundation, motivation and goal of mission with emphasis on the Biblical understanding of mission. Mission in Protestant and modern Roman Catholic theology. EcUMENical and Evangelical definitions of mission. Missionary methods of Pentecostal churches. Mission as the essential task of the Church. Theology of the Apostolate. Church planting as the goal of the Church. Autonomous younger co-operation and the unity of the Church.

30h (T); E

RCS 321  History and Religion of Israel I  2 Credits
Antecedents of Israel. Formation of the tribal confederation. Monarchy and the empire up to the fall of Samaria (722 B.C.).

30h (T); C

RCS 322  History and Religion of Israel II  2 Credits
Religious and political history of Israel up to 587 B.C. The Southern Kingdom. Fall of the state of Judah. Emergence of Judaism following the exile.

30h (T); E

RCS 323  Biblical Hebrew Grammar II  2 Credits

30h (T); C

RCS 324  Biblical Greek Grammar I  4 Credits

60h (T); C

RCS 325  The Apostolic Church up to the Age of Persecution  3 Credits  Examination of Judaism and the Graeco-Roman world serving as the immediate background of Christianity. Foundations and early spread of the Church. Schisms and heresies associated with Gnosticism, Marcionism and Montanism. Martyrs and Apologists Persecution of Christians by Roman Emperors. Emancipation of Christians by Constantine.

45h (T); C
RCS 326  Controversies and Church Councils  3 Credits
45h (T); E

RCS 327  Intertestamental Literature  2 Credits
Examination of the Apocryphal books and selected books of the pseudo epigraphal. Authorship, date, content, structure, nature and the value of these books.
30h (T); C

RCS 328  Christian Ethics  2 Credits
Exposition of Christian foundations as determinants of Christian moral decisions. Sphere of the Christian love and attitude(s) to war, violence. Church-State relationship.
30h (T); E

RCS 329  Miracles and Parables of Jesus  1 Credit
Miracles and parables as a method of teaching. Their relevance to contemporary society.
15h (T); C

RCS 330  Biblical Archaeology  2 Credits
Various archaeological sites and discovery to the understanding of the Bible.
30h (T); E

RCS 331  Exegesis of the Gospel of St. John  2 Credits
30h (T); C

RCS 332  New Testament Theology  2 Credits
Various topics in New Testament theology, selecting out one topic for detailed exposition.
30h (T); E

RCS 333  Christianity and Social Justice  2 Credits
Investigation of biblical teachings pertaining to the pursuit of peace and social justice. Specific political, economic and social issues such as poverty, war, racism, ethnicism and ecology in the light of Christian values
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RCS 334</td>
<td>Ethics, Christianity and Financial Activities</td>
<td>2</td>
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<tr>
<td>RCS 335</td>
<td>The Gospel in an Industrial Society</td>
<td>2</td>
</tr>
<tr>
<td>RCS 336</td>
<td>Christian Organisations in Nigeria</td>
<td>2</td>
</tr>
<tr>
<td>RCS 337</td>
<td>Feminism and the Bible</td>
<td>2</td>
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<tr>
<td></td>
<td>Bible from the feminist perspective. Feminist hermeneutical options and the feminist reconstruction of early Christianity. Basic feminist theories. Inter-relational application of global feminist trends to the Church in Africa.</td>
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<tr>
<td>RCS 338</td>
<td>Jewish and Christian Festivals</td>
<td>2</td>
</tr>
<tr>
<td>RCS 388</td>
<td>Research Methods</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Modern methods of research in Christian Studies. Choices of topic, collection of oral and written data, literature review and the main body of research work. Concluding parts and the place of language and reference materials.</td>
<td></td>
</tr>
<tr>
<td>RCS 421</td>
<td>Christianity in North Africa Up to 1315 A.D.</td>
<td>3</td>
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<tr>
<td></td>
<td>Introduction of Christianity to North Africa. Efforts of the African Church Fathers on Latin Christianity. Tertullian, Cyprian,</td>
<td></td>
</tr>
</tbody>
</table>

45h (T); E

RCS 422  Christianity in West Africa Up to 1914  3 Credits

45h (T); C

RCS 423  Christianity in West African from 1914 to Date  3 Credits

45h (T); C

RCS 424  Language and Literature of the Old Testament  2 Credits

30h (T); C

RCS 425  Theology of the Old Testament  2 Credits
Contemporary approaches to Old Testament theology such as the theology of Israel's historical traditions and the systematic exposition through a central concept. Relationship of the old testament with the New Testament.

30h (T); E

RCS 426  Selection from the Old Testament  2 Credits
Detailed study of selected Hebrew texts relevant to the language, literature and theology of the Old Testament

30h (T); C

RCS 427  Methods of New Testament Interpretation  2 Credits
RCS 428 New Testament Texts  2 Credits
Selected Greek texts from the Gospel of John, the Epistle to the Ephesians and the Johnannine Epistle. Exegesis of the selected texts. Examination of the introduction, distinctive features and theological objectives of the books to aid exegesis.
30h (T); C

RCS 429 Pastoral and Captivity Epistles  1 Credit
Philippians, and Timothy I and II: features and the theological objectives.
15h (T); E

RCS 430 The Letter to the Hebrews  2 Credits
In-depth study of the Epistle to the Hebrews.
30h (T); E

RCS 431 Christian Theology  3 Credits
45h (T); C

RCS 432 The Christian Doctrine of Trinity  2 Credits
30h (T); C

RCS 433 Biblical Greek Grammar II  2 Credits
30h (T); C

RCS 434 Ecclesiology  2 Credits
Christian doctrine of the Church with regard to the origin, meaning and importance. Jewish assembly. Origin of the Christian Church. The Church as a visible society and the need for such a society. Characteristics and importance of the Church.
30h (T); E

RCS 435 Practical Theology  2 Credits
Definition. Approaches to practical theology in Nigeria. Theological ethics. Inculturation of worship in Africa. Methodological
approaches and plurality.

30h (T); E

**RCS 436  Contemporary Christian Theology in Africa** 2 Credits


30h (T); E

**RCS 437  History of Christian Theology** 2 Credits

Development of theological thought and important doctrines from the beginning of Christendom to the present day. Types of theology: Roman Catholic, Eastern Orthodox and Protestants. Theology of Vatican II and the World Council of Churches.

30h (T); E

**RCS 499  Project** 5 Credits

Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

225h (P); C

**Summary**

**B.A. Christian Studies**

100 Level
Compulsory Courses: RCS 121(3), 122(2), 123(2), 124(3), 126(2), 128(2), GNS 111(2), 112(2)  
= 18 Credits

Required Courses: RCR 121(3), 122(2), 123(2), RCR 124(3), RIS 121(2)  
= 12 Credits

Total = 30 Credits

200 Level

Compulsory Courses: RCS 221(3), 222(2), 224(2), 225(4), 226(1), 228(2), 233(2), GNS 211(2), 212(2)  
= 20 Credits

Required Courses: RCR 221(3), 223(2), 224(1), 230(2), RIS 224(1)  
= 9 Credits

Elective Courses: 1 Credit from relevant courses in RCS/RCR  
= 1 Credit

Total = 30 Credits

Direct Entry Students: GNS 111(2), 112(2)  
= 4 Credits

Total = 34 Credits

300 Level

Compulsory Courses: RCS 321(2), 323(2), 324(4), 325(2), 329(1), 331(2), 388(2)  
= 15 Credits

Required Courses: RCR 321(3), 322(2), 323(2), 324(1), RIS 337(1), GNS 311(2), GSE 301(3)  
= 14 Credits

Elective Courses: At least 2 Credits from RCS and RCR  
= 2 Credits

Total = 31 Credits

400 Level

Compulsory Courses: RCS 423(2), 424(2), 431(3), 432(2), 433(2), 499(5)  
= 16 Credits

Required Courses: RCR 421(3), 423(2), 424(2), RIS 437(2)  
= 9 Credits
Elective Courses: Five Credits from RCS/RCR = 5 Credits
Total = 31 Credits

Graduation Requirements:

UTME = 121 Credits
DE = 95 Credits

B.A. Comparative Religious Studies

RCR 121 The Study of African Religion 3 Credits
45h (T); C

RCR 122 The Nature of African Religion 2 Credits
30h (T); C

RCR 123 The Structure of African Religion 2 Credits
30h (T); C

RCR 124 Religions in Nigeria 3 Credits
45h (T); C

RCR 125 New Age Movements 2 Credits
Origin and development of New Age Movements: Adventism, Christian Science, Mormonism, Spiritualism, Theosophy, Grail Message, Occultism, Satanism, Devil worship, Hare Krishna, etc.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RCR 126</td>
<td>Introduction to Anthropology of Religion</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Definition of anthropology. Study of the approach of Social Anthropology to investigation; physical, political, economic. Institutions in a society. Difference between religious methods and social methods.</td>
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<td>30h (T); E</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RCR 127</td>
<td>Introduction to the Study of Religion</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RCR 128</td>
<td>Religious Texts</td>
<td>2</td>
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<tr>
<td></td>
<td>Religious texts of the different religions of the world; their origin, authenticity, writing, compilation and authority. Oral forms of unwritten scriptures: odu and ofo. Study of at least three texts with emphasis on the oral form, composition, authority and writing.</td>
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<td>30h (T); C</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RCR 129</td>
<td>African Religion in Nigeria</td>
<td>2</td>
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<td></td>
<td>30h (T); C</td>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RCR 130</td>
<td>Modern Scholars of African Religion</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Modern scholars of African Religion with emphasis on their works and contributions to the study of African Religion; Parrinder, Idowu, Mbiti, Awolalu, Metuh, Evans – Pritchard etc.</td>
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<td>30h (T); E</td>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RCR 221</td>
<td>Philosophy of Religion I</td>
<td>3</td>
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</tbody>
</table>
RCR 222 Philosophy of Religion II 2 Credits
30h (T); E

RCR 223 African Concepts of God 2 Credits
Concept of the Africans about God; names, attribute, status, and works of God. Sources of African conception and knowledge of God. African terminologies about God borrowed by other religions.
30h (T); C

RCR 224 African Pantheon I 1 Credit
30h (T); C

RCR 225 African Pantheon II 2 Credits
Different divinities in different African localities: Orisa-nla, Orunmila, Esu, Sango, Ogun, Sopona, Oya, Osun (Yoruba); Ala, Amadioha, Agwu, Ekwensu (Igbo); Gunnu, Sokogbona (Nupe); Mawu-Lisa, Fa, Gu, Hevioso (Ewe); Ta Yao, Gua (Akan); Dugbo, Kwigbe, Kaene (Mende and Kano).
30h (T); C

RCR 226 African Ancestors 2 Credits
30h (T); E

RCR 227 Religious Specialists 2 Credits
Nature of religious specialist; their call, training, function and influence in the society. Religious specialists in Nigeria and their contribution to development. Religious specialists and politics and their role in religious harmony in Nigeria.
30h (T); C

RCR 228 Phenomenology of Religion 2 Credits
30h (T); E

**RCR 229  Deity and the Religious Concepts of Man** 2 Credits

**RCR 230  Introduction to Comparative Religion** 2 Credits

**RCR 231  Women in African Religion** 2 Credits

**RCR 232  Religion and Communication** 2 Credits

**RCR 233  Religion and Family in Africa** 2 Credits
Family as a basic social unit. Marriage and family from a religious and sociological perspective. Types and functions of family in Africa. Role of African Religion in the protection of the family unit.

**RCR 234  Youth and Religion** 2 Credits
Definition of youth within the African and global context. Youth in African religion, puberty rites and training like Ndako Gboya, Poro and Sande. Inculcation of leadership roles, responsibilities, morals and discipline in the youth to meet contemporary challenges. Religious youth organizations and role within Nigeria society.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RCR 235</td>
<td>Religion and Science</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>RCR 236</td>
<td>Functions and Forms of Marriage and Family</td>
<td>2</td>
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<td></td>
<td>30h (T); E</td>
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</tr>
<tr>
<td>RCR 321</td>
<td>Introduction to Ethics</td>
<td>3</td>
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<td>45h (T); C</td>
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<tr>
<td>RCR 322</td>
<td>Theories of Religion</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>RCR 323</td>
<td>African Cosmology</td>
<td>2</td>
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<td></td>
<td>30h (T); C</td>
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<tr>
<td>RCR 324</td>
<td>Worship in African Religion I</td>
<td>1</td>
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<tr>
<td></td>
<td>15h (T); C</td>
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<tr>
<td>RCR 325</td>
<td>Worship in African Religion II</td>
<td>2</td>
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<tr>
<td></td>
<td>Worship of the divinities, liturgy, prayer, songs and sacrifice. Worship in African Traditional Religion and other religions. Cultic</td>
<td></td>
</tr>
</tbody>
</table>
functionarie their call, training and status.

30h (T); C

RCR 326 Traditional Festivals 2 Credits
Meaning, features and purpose of traditional festivals. Theological significance of festivals. Descriptions of the celebration of different festivals and their importance.
30h (T); E

RCR 327 Religions of India 3 Credits
Origin and growth of the religions of an India Tradition, Jainism, Sikhism and Buddhism. Religions in India and Nigeria.
45h (T); C

RCR 328 African Traditional Religion and Society 2 Credits
30h (T); E

RCR 329 African Mythology 2 Credits
30h (T); C

RCR 330 Issues in Personal Ethics 2 Credits
30h (T); E

RCR 331 Philosophy of Religion III 2 Credits
30h. (T); E

RCR 332 Comparative Study of Worship in Religion 2 Credits
Worship in African Religion; Christianity, Islam and other world religions, with emphasis on God, place, object, purpose and nature of worship. Functionaries in worship.
30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RCR 333</td>
<td>African Theological Ethics in Perspective of Modern Science</td>
<td>2</td>
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<td></td>
<td>African religious foundations, texture, quality and morals. Ethical teachings</td>
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<td>from African religious injunctions on truth, wisdom, poverty, war and other</td>
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<td>virtues/vices. Comparison of African ethical teachings with scientific</td>
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<td>accounts on evolutionary ecology and neuroscience. African concept of</td>
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<td></td>
<td>causality, soul and destiny.</td>
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<td>30h (T); C</td>
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<tr>
<td>RCR 334</td>
<td>Psychology of Religion</td>
<td>2</td>
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<tr>
<td></td>
<td>Definitions and methodological issues. Psychology of Religion in relations</td>
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<td></td>
<td>to Phenomenology of Religion and Comparative Religion. Religious phenomena</td>
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<td>of individuals and groups based on man’s relationship to God. Psychology of</td>
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<td></td>
<td>conversion. Fundamental human experience. Present state of psychology of</td>
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<td>religion.</td>
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<tr>
<td>RCR 335</td>
<td>Religion and Environment</td>
<td>2</td>
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<tr>
<td></td>
<td>Religion and nature. Philosophy and ethics of nature. Selected religious</td>
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<td></td>
<td>beliefs and practices concerning conservation of nature. Reverence for</td>
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<td></td>
<td>natural resources. African Communalism, Cultural and Biological diversity.</td>
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<td>Religious values and science-based environmental Ethics. Religion and</td>
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<td>sustainable development.</td>
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<td>30h (T), E</td>
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<tr>
<td>RCR 336</td>
<td>Religion and Human Development</td>
<td>2</td>
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<tr>
<td></td>
<td>Role of religion in socialization of the African Religion. Their values to</td>
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<td></td>
<td>national development and social mobilization. Cooperation between religious</td>
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<td>Institutions and the State in modern development.</td>
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<td>30h, (T), E</td>
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<tr>
<td>RCR 337</td>
<td>Religious Meaning, Truth and Value</td>
<td>2</td>
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<tr>
<td></td>
<td>End of Religion. Religion and the question of superiority and claim to</td>
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<td></td>
<td>monopoly of truth and value. Interreligious dynamics. Study of selected</td>
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<td></td>
<td>religious themes. Religious action and meaning.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>RCR 388</td>
<td>Research Methods</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Methods of research in Comparative Religious Studies with emphasis on</td>
<td></td>
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<tr>
<td></td>
<td>African Religion.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>RCR 421</td>
<td>African Mysterious Powers</td>
<td>3</td>
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</tbody>
</table>

**45h (T); C**

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**RCR 422 Issues in Social Ethics**

3 Credits


45h (T); E

---

**RCR 423 Sociology of Religion**

3 Credits


45h (T); C

---

**RCR 424 African Concept of Man**

2 Credits

Man’s origin as conceived by different ethnic group in Africa. Function of the soul, human destiny and the concept of predestination. Rites of passage among the various African peoples.

30h (T); C

---

**RCR 425 Religion of the Far East and Near East**

3 Credits


45h (T); E

---

**RCR 426 African Eschatology**

2 Credits


30h (T); C

---

**RCR 427 Aspects of African Traditional Religion I**

3 Credits

African Traditional Religion among the Yoruba, Igbo, Urhobo, Nupe, Tiv, Ewe, Mende and other West African peoples.

45h (T); C
RCR 428  Aspects of African Traditional Religion II  3 Credits
45h (T); E

RCR 429  African Religion in Contemporary Nigeria  2 Credits
30h (T); E

RCR 430  Atheistic Philosophies  2 Credits
Atheistic systems: Socialism, Marxism, Communism, Secularism and Capitalism.
30h (T); E

RCR 431  Comparative Study of Religions in Nigeria  2 Credits
30h (T); C

RCR 432  Religion and Culture  2 Credits
Definition of culture. Cultural patterns of societies. Varieties of cultures. Correlation between religions and cultures with specific instances where one evolves from the other. Christianity, Islam and the Nigerian cultures.
30h (T); C

RCR 433  Theodicy  2 Credits
Meaning of theodicy. Existence of Evil in all forms vis-à-vis the claim that God is wholly good and omnipotent. Responses of different Religions to the problem of Evil. Purpose of Evil. Free will and the question of choice. Human acts, responsibility and accountability. Theodicy and Modern science.
30h (T); C

RCR 434  Ethical Perspectives on Ecology  2 Credits
Theological approach to ethics of ecology and other ethical issues; technological, geo-agricultural, economic, political and religio-philosophical facets of the environmental crisis.
30h (T); E
RCR 435  Ethics of Political and Economic Life  2 Credits
30h (T); E

RCR 436  African Religion in the Diaspora  2 Credits
30h (T); C

RCR 499  Project  5 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.
225h (P); C

Summary

100 Level
Compulsory Courses:  RCR 121(3), 122(2), 123(2), 124(2), 127(2), 128(2), GNS 111(2), 112(2)
= 18 Credits

Required Courses:  RCS 121(3), 122(2), 123(2), 124(2), RIS 121(2)
= 11 Credits

Elective Courses:  Other relevant Courses in RCS/RCR may be offered
= 1 Credit
Total = 30 Credits

200 Level
Compulsory Courses:  RCR 221(3), 223(2), 224(1), 225(2), 227(2), 229(2), 230(2), 235(2), GNS 211(2), 212(2)
= 20 Credits

Required Courses:  RCS 221(3), 222(2), 224(2), 226(1), RIS 224(1)
= 9 Credits
Elective Courses: Other relevant Courses in RCS/RCR may be offered = 1 Credit
Total = 30 Credits

Direct Entry Students: GNS 111(2) and GNS 112(2) = 4 Credits
Total = 34 Credits

300 Level

Compulsory Courses: RCR 321(3), 322(2), 323(2), 324(1), 325(2), 329(2), 332(2), 388(2), GNS 311(2) = 18 Credits

Required Courses: RCS 321(2), 323(2), 325(2), 329(1), RIS 337(1) = 8 Credits

Elective Courses: Other relevant Courses in RCS/RCR may be offered = 4 Credits
Total = 30 Credits

400 Level

Compulsory Courses: RCR 421(3), 423(2), 424(2), 426(2), 431(2), 432(2), 499(5) = 18 Credits

Required Courses: RCS 423(3), 431(3), 432(2), RIS 437(2) = 10 Credits

Elective Courses: Other relevant Courses in RCS/RCR may be offered = 2 Credits
Total = 30 Credits

Graduation Requirements:
UTME = 120 Credits
D/E Students = 94 Credits
### B.A. Islamic Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RIS 121</td>
<td>General Introduction to Islam</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Meaning and basic principles of Islam. Importance of <em>Kalimatu’sh Shahadah</em>. Islamic sources of guidance. Different sciences associated with Islam. Efforts of the early Muslims. <em>Salaf</em> and subsequent sects of Muslims. Islam and Western civilization.</td>
<td>30h (T); C</td>
</tr>
<tr>
<td>RIS 122</td>
<td>Islamic Fundamentals I: <em>Iman</em> (Faith)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Definition of faith in Islam. Study of faith in Allah and its significance. Other articles of faith, their essence and significance.</td>
<td>30h (T); C</td>
</tr>
<tr>
<td>RIS 123</td>
<td>Islamic Fundamentals II: <em>As-Salat</em> (The performance of prayer)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Importance of Islam. Different aspects and kinds of prayer in Islam. Significance of prayer to Muslims.</td>
<td>30h (T); C</td>
</tr>
<tr>
<td>RIS 124</td>
<td>Islamic Fundamentals III: <em>Az-Zakat</em> (Poor-rate)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Importance of Zakat in Islam. Commodities on which Zakat is due, when and how Zakat is paid. Zakat in modern times. Its significance to Muslims.</td>
<td>15h (T); C</td>
</tr>
<tr>
<td>RIS 125</td>
<td>Islamic Fundamentals IV: <em>As-Sawm</em> (Fasting) and <em>Al-hajji</em> (Pilgrimage)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Importance of fasting in Islam. Institution of fasting before Islam. Islamic teachings on fasting. Ramadan fasting and other fasts and their purpose. Institution of pilgrimage before Islam. Islamic teachings on pilgrimage and significance of pilgrimage to Muslims.</td>
<td>45h (T); C</td>
</tr>
<tr>
<td>RIS 126</td>
<td>Introduction to <em>Sirah</em></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>History of the Jahiliyyah period and the biography of the Prophet Muhammad as contained in <em>Sirah</em> books: the works of Ibn Hisham, Ibn Ishaq and M.H. Haykal.</td>
<td>30h (T); C</td>
</tr>
<tr>
<td>RIS 127</td>
<td>The Classical Foundations of Islamic Civilization and Culture</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>History of Islam from the death of the Prophet Muhammad to the death of the fourth orthodox Caliph Ali b. Ab Talib in 661 C.E.</td>
<td>30h (T); C</td>
</tr>
<tr>
<td>RIS 128</td>
<td>Muslim Organisations in Nigeria</td>
<td>2</td>
</tr>
</tbody>
</table>
Origin and development of Islamic organisations: Ahmadiyyah, Ansar-ud-Deen (AUD), Ansaru’l-Islam (AIS), Jama’atu Nasru’l-Islam (JNI), Muslim Students Society of Nigeria (MSSN) and Tabligh. Contributions of the organisations to the development of Islam in Nigeria. Problems and challenges.

30h (T); C

RIS 129  Status of Women in Islam  
2 Credits
Position of women prior to the advent of Islam. Emancipation of women by Islam. Islamic teachings on mode of dressing, education and acquisition of wealth. Women and leadership. Widowhood in Islam. Illustrations from the Nigerian Society.

30h (T); C

RIS 130  Place of Mosque in Islam  
1 Credit
Historical development of some selected mosques in Islam: al-Ka’bah, al-Masjidun-Nabawi, al-Masijidul-‘Aqsa, Masijidu Quba and Masjidu Qiblatayn.

15h (T); C

RIS 221  The Umayyad Period of Islam  
2 Credits

30h (T); C

RIS 222  The Abbasid Period of Islam  
3 Credits

45h (T); C

RIS 223  The Origin and Development of Islamic Law  
2 Credits
Pre-Islamic Arabian customary law. Islamic stand on legal matters and yardsticks used in assessing customary Laws. The ancient schools of law. Ash-Shafi‘i and jurisprudence. The five schools of law in Islam. The classical theories on sources of law.

30h (T); C

RIS 224  Introduction to the Qur’an  
1 Credit
Historical survey of how the Qur’an came into existence. Contents and divisions of the Qur’an. Importance of the Qur’an to the Muslims.

15h (T); C
RIS 225  Textual Study of the Qur’an 2 Credits
Selected texts for study involving correct recitation, translation, and commentary on each text. Chapter 1 (Al-Fatihah) and Chapters 87 (Al-A‘la) to 114 (An-Nas).
30h (T); C

RIS 227  Textual Study of the Hadith 2 Credits
Correct reading, translation and commentary on the forty-two Hadith of the Arba‘un an-Nawawiyyah.
30h (T); C

RIS 228  Pillars of Islam 3 Credits
Study of the five pillars of Islam with emphasis on their importance and significance.
45h (T); C

RIS 229  Introduction to the Hadith 2 Credits
30h (T); C

RIS 230  Public Finance in Islam 2 Credits
30h (T); C

RIS 231  Islamic Banking 2 Credits
30h (T); C

RIS 232  Islamic Festivals 2 Credits
30h (T); C
RIS 321 Introduction to Islamic Philosophy 2 Credits
30h (T); E

RIS 322 Introduction to Islamic Theology 2 Credits
30h (T); C

RIS 323 Introduction to Islamic Mysticism (Sufism) 2 Credits
30h (T); C

RIS 324 Islamic Family Law 3 Credits
45h (T); C

RIS 325 Qur’anic Exegesis and Exegetes 2 Credits
Growth and development of the science of Tafsir. Classification of Tafsir works. Lives and works of notable Mufassirun among the Sahabah, the Tabi-un and subsequent generations. Modern developments in Tafsir.
30h (T); C

RIS 326 Qur’anic Text 2 Credits
Current reading, translation and study of the Qur’an from Chapter 70 (Al-Ma’arij) to chapter 86 (Al-Tariq) as well as chapter 2 verses 124-134 and chapter 4, verses 1-25. Basic Tafsir works like those of Jalalayn, A.A.Y. Ali, M. Muhammed Ali and Sayyid Qutb to be used.
30h (T); C

RIS 327 Hadith Text I 2 Credits
Selections of the Hadith from *as-Sihabas-Sittah* and *al-Muwatta'* of Malik Bn. Anas covering representative texts on *Ibadah* and *Mu'amalat* including basic social teachings in Islam. Forty short *ahadith* (twenty from *alMuwatta' and twenty from others) to be studied in Arabic and fully translated.

30h (T); C

**RIS 328 Hadith Collectors and Commentators**

Lives and works of some important collectors of Hadith and the commentators on the collections. Collections include al-Bukhari, Muslim, Ibn Majah, - Tirmidhi, Abu Dawud, an-Nasa': Muwatta’ of Malik b. Anas and Musnad of Ahmad b. Hanbal.

30h (T); E

**RIS 331 Islamic Institutions**


45h (T); E

**RIS 332 Qur’anic Ethics**

Foundation of Qur’anic ethics as contained in the Qur’anic injunctions on truth, wisdom, justice, love, beauty and goodness. Unity as a virtue in Islam. Evils of adultery, alcoholism, oppression, rebellion, hypocrisy, indiscipline, corruption and other vices. Work ethics.

30h (T); C

**RIS 335 Islam in the Maghreb and Spain up to 1500 C.E**


45h (T); E

**RIS 336 Islam in the Nile Valley and East Africa**

Spread of Islam to Egypt and the eclipse of Roman culture. Consolidation of Islam in Egypt. Early missionary efforts southwards by the Muslims. Egypt under the Umayyads, the Abbasids, Ibn Tulun, the Ayyubids and the emergence of the Mamluks.

45h (T); E

**RIS 337 Prophecy and Prophetic Missions**

Meaning, essence and symbol of prophecy in Islam. Study of the lives of Prophets Adam, Nuh, Ibrahim, Musa and Isa. Relationship between them and the Prophet Muhammad.
RIS 338  **Mu‘amalat in Islamic Law**  2 Credits  Law of *Mu‘amalat*, the essential requisites of valid contracts and the mode of making them. Scope of contracts in Islam and the Majlisu ‘l-‘aqd meeting-place for the formation of contracts, the parties concerned, and the subject matter. Study of special contracts and dispositions.

30h (T); E

RIS 339  **Islamic Art and Architecture**  2 Credits  Islamic concept of beauty. Calligraphy as an art in Islam. A theoretical study of the architectural masterpieces in Islamic civilization involving mosques, schools and palaces. The Abbasid mosque at Samarra, the Al-Hambra, and the Monumental Taj-Mahal. West African examples of Islamic architecture (Timbuktu, Katsina and Zaria) and calligraphy.

30h (T); E


30h (T); E


45h (T); C

RIS 388  **The Research Methods of Muslim Scholars**  2 Credits  Introduction to modern methods of research in Islamic studies: i) The Qur‘anic guiding methods of enquiry. ii) The research methods used by:

1. I-Muhaddithun (Mustalalhu al-Hadith
2. Al-Faqaha’ Usul-Figh).
3. Al-Mutakallimun (‘Im al-Kalam).
4. Sirah and history (historiography).
5. Biography (Tabaqat).
6. Bibliography (e.g. Fihrsists).
7. The Sufi methods based on insight and intuition (Basira and Hads).

Choice of topic, collection of oral and written data, literature review, the main body of research work, the concluding parts, and the place of language and reference materials.

30h (T); C

RIS 421 Qadiriyyah and Tijaniyyah Sufi Orders 2 Credits
Sufi Orders and their contributions to the development of Islam. Impact of the Qadiriyyah and the Tijaniyyah Sufi Orders on West Africa and Nigeria, in particular.
30h (T); C

RIS 422 Sample Text on At-Tasawwuf 2 Credits
Selected Arabic texts from the writings of renowned Sufis for special study: al-Ghazali; Ibn Arabi, Suhrawardi, Abdul Qadir al-Jilani and Ahmadel’t-Tijani.
30h (T); C

RIS 423 Muslim Philosophers 2 Credits
Muslim philosophers of the East and those of the West. Their contributions to philosophy and human progress. A consideration of the views peculiar to each of them.
30h (T); E

RIS 424 Sample Texts on al-Falsafah 2 Credits
Selected Arabic texts on Islamic philosophy for special study. Extracts from the thoughts of studied philosophers.
30h (T); E

RIS 425 Islamic Theology 2 Credits
30h (T); E

RIS 426 Contributions of West African Scholars to Islamic Thoughts 2 Credits
Islamic institutions and societies.
30h (T); E

RIS 427  
**Modern Reforming Movements in Islam**  
2 Credits  
Muhammad Abdul and Rashid Rida. Muslim brotherhood, Muhammad Iqbal, Uthman b. Fudi and the Mahdi of the Sudan and their efforts. Contributions of Imam Ayatullah al-Khumayni of Iran.  
30h (T); C

RIS 428  
**Modern Development in Islamic Law**  
2 Credits  
Application of Islamic Law in the 19th and 20th centuries C.E. Controversy over the alleged close of the gate of *IJtihad*. Limitation of Qadi courts to the Law of personal status. The principle of Siyasah. Specific consideration of modern trends in the application of Islamic law in the Middle East (Iraq and Syria), North Africa (Egypt and Tunisia), Europe (Turkey), Asia (India and Pakistan) and West Africa (Nigeria).  
30h (T); E

RIS 432  
**Hadith Text II**  
2 Credits  
Study of some extracts from *Sahihan* with commentary.  
30h (T); C

RIS 433  
**Tajwid**  
2 Credits  
30h (T); C

RIS 434  
**Islamic Law of Succession**  
2 Credits  
30h (T); C

RIS 435  
**Islam in Nigeria**  
2 Credits  
30h (T); E

RIS 436  
**Basis of Islamic Economic System**  
2 Credits

**RIS 437 Shari‘ah in Nigeria**

2 Credits

Shari‘ah legal practice in Nigeria up to 1900. Shari‘ah in Nigeria from 1900 to the 1960s. Subsequent developments on the Shari‘ah in Nigeria to date.

30h (T); C

**RIS 438 The Mamluks and ‘Uthmani Dominions**

3 Credits

History of Mamluks of Egypt and their contributions to civilization from 1250-1517 C.E., the Uthmani rule and conflicts with their European neighbours. Decline of their rule and their contributions to Islamic civilization.

45h (T); E

**RIS 439 Islamic Law of Wasiyyah and Waqf**

1 Credit


15h (T); E

**RIS 440 Islamic Principles of Jurisprudence**

2 Credits


30h (T); C

**RIS 441 Islamic Historiography**

2 Credits


30h (T); C

**RIS 442 Heretical Movements**

2 Credits

Fundamental Islamic principles. Islamic views on heresy and its early development. Modern manifestation of heresy in Babiyyah, Baha’iyyah and Qadiyaniyyah. Need for constant dialogue to remove heresy and realize unity of the Muslim Ummah.

30h (T); E
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIS 443</td>
<td>Concept of Justice in Islam</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>The system of justice dispensation in Islam. Al-Qadi (the judge) and his qualification. The maxim: <em>al-bayinatu ala’l-Mudda l wa’l-Yaminu ola man Ankara</em>. The place of witness in Islamic justice dispensation. <em>Wakalah</em> and legal representation.</td>
<td>30h (T); C</td>
</tr>
<tr>
<td>RIS 444</td>
<td>Islamic Penal System</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Classification of crimes in Islam: <em>Hudud, Qisas</em> and <em>Ta’ zir</em>. Specific penalties for Hudud and Qisas crimes. Flexibility of some Qisas penalties. Qur’anic and Hadith reference on the Islamic criminal justice system.</td>
<td>30h (T); C</td>
</tr>
<tr>
<td>RIS 445</td>
<td>Governance and Public Administration in Islam</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Qur’anic teachings on governance. Prophetic model of governance in Madinah. Qualities of ‘ulu’l-Amri. Shura: meaning, mode and scope. Study of <em>al-adlu wa’l-lhsan</em> in Qur’an 16:90. Islamic perspectives on international, diplomatic, bilateral and multilateral relations. Examination of selected treaties, letters and covenants signed during the prophetic era and subsequent Islamic governments of the salaf.</td>
<td>30h (T); C</td>
</tr>
<tr>
<td>RIS 446</td>
<td>Islamic Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Development of Islamic education under the Prophet's guidance. The contribution of <em>Sahabah</em> and <em>Tabi’un</em> to Islamic Education. The subsequent history and the development of Islamic education. a) Institutions: Mosque (Masjid) madrasah Nizamiyyah, Cordova, al-Azhar. b) Literature: al-Muhasib, al-Mawardi and al-Ghazali. Influence of maghribi writers, e.g. a) The Qur'anic School, b) The Islamiyyah and the CIlm School, and c) Islamic Higher Education in Nigeria.</td>
<td>45h (T); E</td>
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<tr>
<td>RIS 499</td>
<td>Project</td>
<td>5</td>
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<td></td>
<td>Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.</td>
<td>225h (P); C</td>
</tr>
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</table>
## Summary

### 100 Level

**Compulsory Courses:**
RIS 121(2), 122(2), 123(2), 124(1), 125(3), 126(2), 127(2), 128(2), 129(2), 130(1)  
= 19 Credits

**Required Courses:**
GNS 111(2), 112(2)  
= 4 Credits

**Elective Courses:**
At least 7 Credits from 100 Level Courses in ARA  
Total = 7 Credits

Total = 30 Credits

### 200 Level

**Compulsory Courses:**
RIS 221(2), 222(3), 223(2), 224(1), 225(2), 227(2), 228(3), 229(2), 230(2), 232(2),  
= 21 Credits

**Required Courses:**
GNS 211(2), 212(2)  
= 4 Credits

**Elective Courses:**
At least 8 Credits from 200 Level ARA Courses  
Total = 8 Credits

Direct Entry Students:
GNS 111(2), 112(2)  
= 4 Credits

Total = 37 Credits

### 300 Level

**Compulsory Courses:**
RIS 322(2), 323(2), 324(2), 325(2), 326(2), 327(2), 332(2), 337(1), 341(3), 388(2), RCS 329(1), RCR 304(1)  
= 22 Credits

**Required Courses:**
GNS 311(2), GSE 301(3)  
= 5 Credits

**Elective Courses:**
At least 4 Credits from the following: RIS 321(2), 328(2), 331(3), 335(3), 336(3), 338(2), 339(2), 340(2)  
Total = 4 Credits

Total = 31 Credits

### 400 Level

**Compulsory Courses:**
RIS 440(2), 443(2), 444(2), 445(2), 499(5)  
= 13 Credits
Elective Courses: At least 17 Credits from the following: RIS 421(2), 423(2), 427(2), 428(2), 432(2), 433(2), 434(2), 436(2), 437(2), 439(1), 441(2), 442(2), 446(3) = 17 Credits
Total = 30 Credits

Graduation Requirements:
UTME = 124 Credits
DE = 98 Credits

FACULTY OF COMMUNICATION AND INFORMATION SCIENCES

Dean’s Office

J. S. Sadiku B.Sc., M.Sc., Ph.D. (Ibadan) Professor & Dean
A. L. Azeez B.Sc., M.Sc. (Lagos); Ph.D. (Leeds) Senior Lecturer & Sub-Dean
M. B. Umar B.Sc., MPA (Ilorin) Faculty Officer
Department of Computer Science

R. G. Jimoh  B.Sc. (Ilorin); M.Sc. (Ibadan); Ph.D. (Utara)  Senior Lecturer & Ag. Head

J. S. Sadiku  B.Sc., M.Sc., Ph.D. (Ibadan)  Professor

B.A. Oluwade  B.Sc., M.Sc. (OAU); Ph.D. (Lagos)  Professor

P. B. Shola  B.Sc., M.Sc. (ABU); Ph.D. (Essex)  Senior Lecturer

A. O. Babatunde  B.Sc. (ABU); PGD; Ph.D. (Ilorin)  Senior Lecturer

D. R. Aremu  B.Sc., M.Sc. (Ilorin); Ph.D. (Kwadlagezwa)  Senior Lecturer

R. O. Oladele  B.Sc., M.Sc., Ph.D. (Ilorin)  Senior Lecturer

A. O. Ameen  B.Tech. (FUT Minna); Ph.D. (Ilorin)  Lecturer I

Tinuke. O. Oladele  B.Sc. (Benin); M.Sc., Ph.D. (Ilorin)  Lecturer I

Oluwakemi. C. Abikoye  B.Sc. (Ilorin); M.Sc. (Ibadan); Ph.D. (Ilorin)  Lecturer I

L. B. Asaju  B.Tech. (FUT Minna); M.Sc. (Ilorin); Ph.D. (USM)  Lecturer I

Modinat. A. Mabayoje  B.Sc., M.Sc., Ph.D. (Ilorin)  Lecturer II

A. O. Bajeh  B.Sc., M.Sc. (Ilorin)  Lecturer II
K. S. Adewole   B.Sc., M.Sc. (Ilorin)   Lecturer II

A. R. Ajiboye   B.Sc., M.Sc. (Ilorin)   Assistant Lecturer

Abimbola G. Akintola P.O. Sadiku   B.Sc. (Bowen); M.Sc. (Ilorin)   Assistant Lecturer

A. M. Balogun   B.Tech. (LAUTECH); M.Sc. (Derby)   Assistant Lecturer

A. O. Balogun   B.Sc. (Ilorin)   Assistant Lecturer

S. O. Abdulsalam   B.Sc., M.Sc. (Ilorin)   Assistant Lecturer

Shakirat A. Salihu   B.Sc., M.Sc. (Ilorin)   Assistant Lecturer

Ayisat W. Yusuf-Asaju   B.Sc. (Al-Hikmah); M.Sc. (Bradford)   Assistant Lecturer

Latifat B. Adeoye   HND   Technologist I

Department of Information and Communication Science

Omenogo V. Mejabi B.Sc. (Ibadan); PGD; M.Sc. (Aston); Ph.D. (Ilorin)   Senior Lecturer & Ag. Head

Rafiat A. Oyekunle   B.Sc. (ABU); M.Inf.Sc. (Ibadan)   Lecturer I

O. W. Bello   B.Sc. (OOU); M.Inf.Sc. (Ibadan); MBA (OAU)   Lecturer II

N. A. Balogun   B.Sc. (UDU); PDE; M.I.T. (IIUM, Malaysia)   Lecturer II
<table>
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<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
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<tbody>
<tr>
<td>Oluyinka T. Afolayan</td>
<td>B.Sc., M.Inf.Sc. (Ibadan)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>A. S. Memudu</td>
<td>B.Sc. (Zagreb); M.Sc. (Belgrade)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td></td>
<td>MBA (Maryland)</td>
<td></td>
</tr>
<tr>
<td>A. Adedoyin</td>
<td>B.Eng. (Ilorin); M.Sc. (Greenwich)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>M. O. Oloyede</td>
<td>B.Eng. (Ilorin); M.Sc. (London)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Oluwabukola. O. Ajiboye</td>
<td>B.Sc. (Covenant)</td>
<td>Graduate Assistant</td>
</tr>
<tr>
<td>S. A. Sanni</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Technologist I</td>
</tr>
<tr>
<td>Bisola T. Babalola</td>
<td>B.Sc., MGIS (Ilorin)</td>
<td>Technologist I</td>
</tr>
<tr>
<td>A. O. Issa</td>
<td>DLS, BLS, MLS (ABU); &amp; Ag. HOD</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>L.O. Aina</td>
<td>B.Sc. (Lagos); PGDL; M.Phil. (London); Ph.D. (Ibadan)</td>
<td>Professor</td>
</tr>
<tr>
<td>M. Ajibero</td>
<td>BLS (ABU); MLS, Ph.D. (Pittsburg)</td>
<td>Professor</td>
</tr>
<tr>
<td>Adetoun O. Idowu</td>
<td>B.A. (Ilorin); MLS (Pittsburgh); Ph.D. (Ibadan)</td>
<td>Reader</td>
</tr>
<tr>
<td>A. Tella</td>
<td>B.Ed., M.Ed., MLIS (Ibadan); Ph.D. (Botswana)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>S. A. Ajia</td>
<td>BLS (ABU); MA (Ed.); Ph.D. (Loughborough)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>A. A. Salman</td>
<td>DLS (ABU); BLIS (BUK); PGDE;</td>
<td>Lecturer I</td>
</tr>
</tbody>
</table>

**Library and Information Science**

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>A. O. Issa</td>
<td>DLS, BLS, MLS (ABU); &amp; Ag. HOD</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>L.O. Aina</td>
<td>B.Sc. (Lagos); PGDL; M.Phil. (London); Ph.D. (Ibadan)</td>
<td>Professor</td>
</tr>
<tr>
<td>M. Ajibero</td>
<td>BLS (ABU); MLS, Ph.D. (Pittsburg)</td>
<td>Professor</td>
</tr>
<tr>
<td>Adetoun O. Idowu</td>
<td>B.A. (Ilorin); MLS (Pittsburgh); Ph.D. (Ibadan)</td>
<td>Reader</td>
</tr>
<tr>
<td>A. Tella</td>
<td>B.Ed., M.Ed., MLIS (Ibadan); Ph.D. (Botswana)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>S. A. Ajia</td>
<td>BLS (ABU); MA (Ed.); Ph.D. (Loughborough)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>A. A. Salman</td>
<td>DLS (ABU); BLIS (BUK); PGDE;</td>
<td>Lecturer I</td>
</tr>
</tbody>
</table>
G. Olasina               B.A. (Ilorin); MLIS (Ibadan)    Lecturer I  
K. T. Omopupa            DLS, BLIS (BUK); MLIS (Ibadan) Lecturer I  
M. T. Bashorun           B.Ed. (OAU); MLIS, MPA (Ibadan) Lecturer I  
L. M. Akanbi             BLS, MLS (BUK); Ph.D. (IIUM, Malaysia) Lecturer II  
A. L. Folorunsho         BLS, MLIS (Maiduguri); MPA (Ilorin) Lecturer II  
Mulikat Y. Adisa         DLS, BLS, MLIS (ABU)  Lecturer II  
A. Isah                  DLS, BLIS (ABU); MLIS (Ibadan) Lecturer II  
Hawwa B. Akanbi-Ademolake B.Sc. (Ed.) (EKSU); MLIS (Ibadan) Lecturer II  
S. A. Olarongbe          BLS (BUK); MLIS (Ibadan)  Lecturer II  
Nafisa Rabiu             BLS (BUK)  Graduate Assistant  
Lubabat A. AbdulHakeem   HND  Technologist I  
Olubunmi R. Ogunlade     HND  Technologist I  

**Department of Mass Communication**

M. Abdulraheem           B.A. (BUK); L.L.B. (Ilorin); B.L. (Abuja); M.Sc. (Lagos); L.L.M. (OAU) Senior Research Fellow & Ag. HOD  
O. O. Oyewo              B.A. (Ilorin); M.A., Ph.D. (Ibadan) Reader
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Liad</td>
<td>B.Sc. (Ibadan); PGD; M.Sc. (Lagos)</td>
<td>Senior Research Fellow</td>
</tr>
<tr>
<td>A. L. Azeez</td>
<td>B.Sc., M.Sc. (Lagos); Ph.D. (Leeds)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Saudat S. Abdulbaqi</td>
<td>B.A. (BUK); M.Sc. (Lagos); Ph.D. (Utara)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>Kehinde K. Kadiri</td>
<td>B.Sc. (Lagos); M.A. (Legon)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>L. K. Mustahpa</td>
<td>B.Sc., M.Sc. (Lagos); Ph.D. (IIUM, Malaysia)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>R. M. Adisa</td>
<td>B.A. (BUK); PGDE; M.Sc. (Lagos)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>P. Udende</td>
<td>B.A., M.Sc. (BSU)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>O. A. La’aro</td>
<td>B.Sc., M.Sc. (Lagos); PGDE</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Aisha. I. Omoloso</td>
<td>B.A. (BUK); M.Sc. (Lagos)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>I. Y. Abubakar</td>
<td>B.A. (Riyadh); M.A. (BUK)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Aishat S. Abdulrauf</td>
<td>B.Sc., M.Sc. (ABU)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>A. O. Arikewuyo</td>
<td>B.Sc. (Ilorin)</td>
<td>Graduate Assistant</td>
</tr>
<tr>
<td>Rukayat O. Adegoke</td>
<td>B.Sc. (Ilorin)</td>
<td>Graduate Assistant</td>
</tr>
<tr>
<td>Ghaniyyat O. Aderinoye</td>
<td>HND</td>
<td>Technologist I</td>
</tr>
<tr>
<td>T. O. Yusuf</td>
<td>B.A. (BUK); MPA (Ilorin)</td>
<td>Technologist I</td>
</tr>
<tr>
<td>Ghaniyyat B. Balogun</td>
<td>B.Tech. (FUT Minna); M.Sc., MBA, Ph.D. (Ilorin)</td>
<td>Technologist I</td>
</tr>
</tbody>
</table>

**Department of Telecommunication Science**
A. A. Ayeni  
B.Sc. (NYIT); M.Eng., Ph.D. (Ilorin)  
Reader & Ag. Head

T. O. Tiamiyu  
B.Sc., M.Sc. (Moscow)  
Lecturer I

N. Faruk  
B.Sc. (KSUW); M.Sc. (Oxford)  
Lecturer I

L. A. Olawoyin  
B.Eng. (FUTA); M.Sc. (Sussex)  
Lecturer II

S. O. Onidare  
B.Tech. (LAUTECH); M.Sc., (Karlskrona)  
Lecturer II

A. A. Oloyede  
B.Eng. (BUK); M.Sc. (York)  
Lecturer II

M. Y. Mujahid  
B.Eng. (BUK); M.Sc. (Sunderland)  
Assistant Lecturer

A. O. Ajagbe  
B.Eng. (FUT Minna); M.Sc. (Tu Delft)  
Assistant Lecturer

O. B. Ayeni  
B.Eng. (EKSU); M.Sc. (Ilorin)  
Assistant Lecturer

Temitayo C. Adeniran  
B.Tech. (LAUTECH); M.Sc. (Portsmouth)  
Assistant Lecturer

Folayo O. Aina  
B.Sc. (Ilorin); M.Sc. (Chelmsford)  
Assistant Lecturer

O. A. Sowande  
B.Sc. (AAU); M.Sc. (Salford)  
Assistant Lecturer

J. L. Morakinyo  
B.Eng. (Colchester)  
Graduate Assistant

Q. R. Adebowale  
B.Sc. (Ilorin)  
Graduate Assistant

Q. Y. Imam-Fulani  
B.Sc. (Ilorin)  
Graduate Assistant
DEPARTMENT OF COMPUTER SCIENCE

Course Description

B.Sc. Computer Science

CSC 111 Introduction to Computer Science I                                                2 Credits
15h (T), 45h (P); C

CSC 112 Introduction to Computer Science II                                       3 Credits
30h (T), 45h (P); C

CSC 114 Computer Appreciation I                                                         2 Credits
Operating Systems: Windows and DOS. Application packages: DocUTMEnt (MS-Word) Processing, Spreadsheets (MS-Excel) and Presentations (MS- PowerPoint).
15h (T), 45h (P); E (For students other than Computer Science students)

CSC 211 Computer Programming I                                                       2 Credits
15h (T), 45h (P); C

CSC 212 Computer Programming II                        3 Credits
30h (T), 45h (P); C

CSC 213 Object Oriented Programming (Using Java)                    2 Credits

15h (T), 45h (P); C

CSC 214 Introduction to File Processing 2 Credits
30h(T); C

CSC 216 Assembly Language 2 Credits
15h (T), 45h (P); C

CSC 217 Computer Programming I 2 Credits
15h (T), 45h (P); E. Pr: CSC 112 (For Sciences and Engineering)

CSC 218 Computer Programming II 3 Credits
Derived types: Pointers, dynamic structure, recursion and object oriented concepts. Abstraction, encapsulation and information hiding. Inheritance and polymorphism and their implementation in FORTRAN.
30h (T); 45h (P); E. Pr: CSC 217 (For Sciences and Engineering)

CSC 219 Computer Appreciation II 2 Credits
CSC 220  Computer Architecture  3 Credits
30h (T), 45h (P); E

CSC 222  Database Design and Management  3 Credits
30h (T), 45h (P); C

CSC 224  Internet Technology I  2 Credits
History of XML, HTML, DHTML. Scripting language and E-commerce. Basics of XHTML, CSS, Java Scripts, and Dynamic HTML. Brief discussion of 'wysiwyg' (HTML editors including Macromedia Dreamweavers).
15h (T), 45h (P); C

CSC 226  Computer Appreciation III  2 Credits
Introduction to Database Management. Relational data model. MS access. Query Languages. SQL, Query by Example. Microsoft Publisher. Statistical Packages.
15h (T), 45h (P); E

CSC 227  Introduction to Computer Science For Management and Social Sciences  2 Credits
30h (T); R

CSC 228  Tools for Scientific Computing  2 Credits

15h (T), 45h (P); E

CSC 229 NUTMErical Computation I 2 Credits
Number systems and Errors. Number representation, floating point arithmetic, loss of significance and Error propagation. Interpolation by polynomial. Difference table.
NUTMEric differentiation and Integration. Solving system of equation, matrix and vector norms, matrix decomposition. German elimination approach and iterative scheme, eigen value computation. Curve fitting, (least square rational function approximations.
30h (T); E

CSC 311 Automata Theory, Computability and Formal Language 2 Credits
30h (T); C. Pr: CSC 211 or CSC 212

CSC 315 Operating Systems 3 Credits
45h (T); C

CSC 317 Data Structure and Algorithm 3 Credits
Basic Data types and their associated operations. Composite Data type: array, record, string and their implementations, string matching algorithms. Definition of Abstract data types (ADT). Concept, implementation and application of stack, queue, list, tree, set, bags, dictionary, hash table and hashing. Graphs and some graph algorithms.
30h (T), 45h (P); C. Pr: CSC 211 or 212 or 213

CSC 319 Internet Technology II 2 Credits
15h (T), 45h (P); E. Pr: CSC 224

CSC 321 Introduction to Digital Design and Microprocessors 3 Credits
30h (T), 45h (P); C

CSC 323 NUTMErical Computation II 2 Credits
30h (T); E

CSC 325 System Programming 2 Credits
Basic function of an Assembler. Features of an Assemblers: instruction format, addressing modes, program relocation, literal, symbol defining statements, control section and program linking. Study of some standard assembler (i.e MASM assembler). Loader and Linker: their functions, features and design. Some standard linkers in market, Macro processors.
30h (T), 45h (P); C. Pr: CSC 220

CSC 327 Logic Programming 2 Credits
Prolog language concepts and programming. Data object, matching, list representation and list operators, arithmetic expression, backtracking and its control. Input/output and some other built-in procedure. Horn clause logic and foundation.
30h (T);C. Pr: CSC 211

CSC 329 Functional Programming 2 Credits
Introduction to programming paradigms. Functional programming languages. Expression, functions, higher order functions recursion, list, reduction model, strictness, type systems, program synthesis and transformation.
30h (T); E. Pr: CSC 211

CSC 331 Academic writing 1 Credit
Understudying Academic writing, choosing research topic, statement of problem, research gap, literature review, referencing style (in-text citation and listing i.e. APA, IEEE.
CSC 322  Industrial Attachment I  6 Credits
Exposure of students to practical application and use of computer in solving problems within the work environment. Student should submit and defend report after completion of the industrial attachment.
270h (P); C

CSC 334  Theory of Computation  2 Credits
Decidability, decidable languages, halting problem, reducibility, recursion theorem, complexity theory and Lambda calculus.
Applications to string matching, parsing and problem solving.
30h (T); E. Pr: CSC 321

CSC 336  Operations Research  2 Credits
30h (T); E

CSC 338  Computer System Performance Evaluation  2 Credits
30h (T); E

CSC 420  Software Engineering  3 Credits
Software and software engineering, Software life cycle, Process models, Project planning, Project scheduling and tracking, requirement analysis. Software design principles, implementation, integration, testing, maintenance, quality assurance and software metric. CASE tolls, UML, Object oriented paradigm, object oriented analysis, design and programming. Software management. Formal methods - Z and Raise specification languages etc.
45h (T); C

CSC 421  Algorithm Design & Analysis  3 Credits
Analysis of algorithms (time and storage requirements), worst, average, best cases analysis, amortization and potential methods. Various techniques for algorithms design. Divide and Conquer, greedy method, dynamic programming, recursion, basic space – searching techniques and use of invariant. NP-hard and NP-complete problems. Cook’s theorem. Back tracking, pattern matching and string/text algorithm. NUTMEric approximation algorithm
30h (T), 45h (P); C. Pr: CSC 317
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CSC 422</td>
<td>Data Communication and Information Theory</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>CSC 423</td>
<td>Programming Verification and Development</td>
<td>2</td>
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<td>Simultaneous development and verification of correct programs. Program state, state predicate and program specification. Establishing program correctness, axioms/deduction rules for proofs of program correctness, predicate transformer, formal logic and program semantics. Actual examples of program development.</td>
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<td>30h (T); C; Pr: CSC 311</td>
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<td>CSC 425</td>
<td>Data Mining and Data Warehousing</td>
<td>2</td>
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<td></td>
<td>30h (T); C. Pr: CSC 336</td>
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<tr>
<td>CSC 426</td>
<td>Parallel Computing</td>
<td>2</td>
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<td>30h (T); C. Pr: CSC 317 &amp; CSC 330</td>
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<tr>
<td>CSC 427</td>
<td>Computer Networking</td>
<td>2</td>
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<td>Definition of Data communication/Network, OSI Model. LAN technologies: security and applications. LAN Topology and Media: media-access methods, protocols (Ethernet, token rings, FDDI, ATM) and transmission methods. LAN devices: WLAN technologies, WAN technologies, switching methods. WAN devices. Introduction to internetworking, overview of Internetworking devices, Internetworking design models and routing.</td>
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<td>30h (T); C. Pr: CSC 211</td>
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<tr>
<td>CSC 428</td>
<td>Distributed Computing</td>
<td>2</td>
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<td></td>
<td>Characterization of Distributed systems, system models, distributed objects and remote method invocation. Component-based development: using UML for component-based design. JavaBeans and Enterprise Java Beans case study. Distributed transactions:</td>
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</tr>
</tbody>
</table>
introduction, flat & nested distributed transactions, concurrency. Service-oriented architectures: characteristics of SOAs, introduction to web services, J2EE based web services study.

CSC 429 Human Computer Interaction 2 Credits
30h (T); C; Pr: CSC 326

CSC 430 Fuzzy Logic and Fuzzy Control System 2 Credits
30h (T); E. Pr: MAT 201, 211, 213 & MAT 309

CSC 431 Seminar 2 Credits
Student is expected to give seminar on some selected topics (of industrial value).
30h (T); C

CSC 432 Modeling and Simulation 2 Credits
30h (T); E. Pr: CSC 317 & CSC 327

CSC 433 Neural Networks 2 Credits
30h (T); E

CSC 434 Expert Systems 2 Credits
30h (T); E
CSC 436  Computer Installation Management  2 Credits
Role of computer unit in organizations. Computer hardware installation. Computer software installation. Configuration
management, computer security management and computer performance management.
30h (T); E

CSC 438  Visual Programming  2 Credits
Introduction to VB, VB IDE, VB Forms (SDI and MDI). Intrinsic Controls (textbox, Command Button, Label, Checkbox, etc and
Procedures, string and control structures. Array and control array. ActiveX Control. Class. VB advance programming. Windows
API. File Processing. OLE. VB and Database. Data Control and Data Bound Control.
15h (T), 45h (P); C

CSC 442  Cybernetics  2 Credits
Systems theory. Control Systems: structures and properties and feedback control loop. Control objectives: specifications in time,
frequency and complex domain, reference tracking and steady-state error. Control Systems properties (stability, gain and phase
management, etc) and analysis. Basic Controllers PID (lead, lag and alike). Root locus and frequency loop-shaping. Limits of
control software for control design. Digital signal processing. Image as signal, Image formation & Processing. Data transfer media.
Distributed Systems.
30h (T); E

CSC 443  Bioinformatics  2 Credits
Algorithms on strings, Sequences, Pattern matching, Text processing, Genetic engineering, Pattern Discovery, Bio computing,
sequence alignment, BLAST, FASTA, Structural alignment, Multiple alignment. Computational phylogenetics. Tree building and
Tree evaluation. Sequence analysis: Restriction sites, Finding genes, Predicting Protein structure. Micro arrays. Whole genome
30h (T); E

CSC 444  Queuing System  2 Credits
30h (T); E

CSC 445  Introduction to cryptography  2 Credits
History and overview of cryptography. Basic symmetric-key encryption: stream ciphers, block ciphers using DES, 3DES and AES.
Pseudo random permutation. Pseudo random functions. Message integrity: definition and application, collision and resistant
hashing, authenticated encryption. Public key cryptography. Arithmetic modulo primes. Cryptography using arithmetic modulo

**CSC 446**  Computer Graphics  2 Credits

**CSC 447**  Image Processing  2 Credits

**CSC 448**  Artificial Intelligence  2 Credits

**CSC 450**  Organization of Programming Language  2 Credits
Language definition structure. Data types and structures. Review of basic types, including lists and tree. Control structures and flow. Run-time consideration, interpretative languages, lexical analysis and parsing.

**CSC 452**  Mobile and Cloud Computing  2 Credits

**30h (T); C. Pr: CSC 213**

**CSC 454  Compiler Construction**  
3 Credits

**30h (T), 45h (P); C**

**CSC 499  Project**  
6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

**270h (P); C**
SUMMARY

100 Level

Compulsory Courses:  
CSC 111 (2), CSC 112 (2)  
= 4 Credits

Required Courses:  
MAT 111 (3), MAT 112 (3), MAT 113 (3), MAT 114 (3), PHY 115 (2), PHY 191 (1), PHY 192 (1), PBL 101 (3), STA 121 (2), STA 124 (2), STA 131 (2), TCS 101 (2), TCS 102 (2), ICS 101 (2), ICS 106 (2), GNS 111 (2), GNS 112 (2)  
= 40 Credits

Total = 44 Credits

200 Level

Compulsory Courses:  
CSC 211 (2), CSC 212 (3), CSC 213 (2), CSC 214 (2), CSC 216 (2), CSC 220 (3), CSC 222 (3), CSC 224 (2)  
= 19 Credits

Required Courses:  
MAT 201 (3), MAT 211 (3), MAT 213 (2), MAT 206 (2), MAC 251 (2), STA 203 (2), STA 221 (3), PHY 252 (2), GNS 211 (2), GNS 212 (2)  
= 23 Credits

Elective Courses:  
At Least 2 Credits from the Following:  
CSC 217 (2), CSC 228 (2), CSC 229 (2), MAT 208 (2), STA 222 (3)  
= 2 Credits

Total = 44 Credits

Direct Entry Students:  
GNS 111 (2), GNS 112 (2)  
= 4 Credits

Total = 48 Credits

300 Level

Compulsory Courses:  
CSC 311 (2), CSC 315 (3), CSC 317 (3), CSC 321 (3), CSC 322 (6),
Required Courses: 

- CSC 325 (2), CSC 327 (2), CSC 331 (1) = 22 Credits
- GNS 311 (2), GSE 301 (3) = 5 Credits

Electives Courses: 

- At Least 2 Credits from the Following:
  - CSC 319 (2), CSC 323 (2), CSC 329 (2), ICS 314 (2), CSC 334 (2),
  - CSC 336 (2), CSC 338 (2), TCS 204 (3), TCS 205 (3), MAT 309 (3), MAT 318 (3)
  = 2 Credits

Total = 29 Credits

400 Level

Compulsory Courses: 

- CSC 420 (3), CSC 421 (3), CSC 422 (2), CSC 423 (2), CSC 425 (2),
- CSC 426 (2), CSC 427 (2), CSC 429 (2), CSC 431 (2), CSC 438 (2), CSC 446 (2), CSC 448 (2), CSC 450 (2), CSC 452 (2), CSC 454 (3), CSC 499 (6)
  = 39 Credits

Elective Courses: 

- At Least 2 Credits from the Following:
  - CSC 428 (2), CSC 430 (2), CSC 432 (2), CSC 433 (2), CSC 434 (2),
  - CSC 436 (2), CSC 442 (2), CSC 443 (2), CSC 444 (2), CSC 445 (2),
  - CSC 447 (2), TCS 301 (2), TCS 305 (2), TCS 311 (2), TCS 312 (2),
  - TCS 411 (3), MAT 425 (3)
  = 2 Credits

Total = 41 Credits

Graduation Requirements:

- UTME = 158 Credits
- DE = 116 Credits
DEPARTMENT OF INFORMATION AND COMMUNICATION SCIENCE

Course Description

B.Sc. Information and Communication

ICS 101 Information, Communication & Society 2 Credits
30h (T); C
ICS 103 Programming Foundation 2 Credits
Structural programming: QBASIC, program looping, loading and processing data, user data and nested loops. Input range testing and range tolerance. Output formatting (variables and functions). Introduction to Visual Basic programming and program design: basic controls, common controls, array controls and ActiveX controls. Application of simple variables, array variables and database technologies in program. Multimedia technologies, menu design and toolbar design.
15h (T), 45h (P); C

ICS 104 Elementary Skills in IT 2 Credits
Improving use of keyboard: focus on speed, accuracy, and other techniques. Word processing: spell and grammar check, thesaurus, tabs, insertion and manipulation of pictures and graphics. Spreadsheet: data input skills, formula creation and spreadsheet manipulation. Graphics skills (e.g. Microsoft Paint, Adobe Flash, Macromedia Fireworks, etc): using the basic tool bar functions. Presentation skills: slide creation and development.
15h (T), 45h (P); C

ICS 106 Information Literacy for the Digital Age 2 Credits
15h (T), 45h (P); C

ICS 204 Data Structures and Algorithms 3 Credits
Data representation and application. Use of data structures in programming languages. Data and file management using a high level language.
30h (T), 45h (P); C

ICS 205 Operating Systems 3 Credits
45h (T); C

ICS 206 Client Side Web Development 3 Credits

ICS 208 System Analysis and Design 3 Credits
Management requirements.

ICS 209 Information Storage and Retrieval 2 Credits
Overview. Information representation, organization and storage. Information retrieval systems: applications, search processes, retrieval models, performance evaluations, etc.

ICS 210 Business Environment in IT 2 Credits
Strategies, performance and markets of business organizations. Start-ups. IT Incubators. IT Products business models (Fremium, Premium and data). Funding sources (crowd sourcing, traditional methods etc). IT idea presentation (pitching).

ICS 211 Human Computer Interaction 3 Credits
Human Computer Interaction (HCI) as an interdisciplinary field. Current theories and practice in interface specification, design and evaluation. Methods, principles and tools for designing, programming, testing and evaluating interactive systems. Human factors and socio-cultural demands in user interface design. Usability and affordance. User-centered design: human cognitive and physical ergonomics. Information and interactivity structures, interaction styles, interaction techniques, and user interface software tools. Recent developments in HCI (emerging interaction styles and a variety of interaction techniques).

ICS 213 Database Development and Management 3 Credits
ICS 313 **Object-Oriented Programming** 3 Credits
15h (T), 90h (P); C

ICS 315 **Information Products and Services** 2 Credits
Information products and services: development and marketing, target groups, products development processes and issues of innovation. Success factors in products development and innovation: marketing approaches, evaluation and pricing.
30h (T); E

ICS 317 **Information Resources Management** 2 Credits
Information as a resource. Information manager roles. Information security (types and human factors). Integration of internal and external sources. Auditing methodologies. Information policies, value, quality and security. Record management and legal frameworks.
30h (T); E

ICS 319 **Management Information Systems** 2 Credits
30h (T); E

ICS 321 **Research Methods** 3 Credits
Types of research: survey, experimental, ex-post facto, historical, evaluative etc. Literature review, problem statement, research questions and hypotheses. Use of statistical software. Research proposal and final report writing. Research programme planning, data interpretation and outcome evaluation. Ethical issues in research.
45h (T); C

ICS 392 **Students’ Industrial Work Experience Scheme (SIWES)** 6 Credits
Students will work in an organization during the Rain semester and long vacation and produce a report to be presented at a 400 Level Seminar.
ICS 402  **Data Warehousing and Data Mining**  
Theories and practice for designing and constructing a data warehouse and implementing data mining. Issues and techniques involved in building an effective data warehouse: association, classification, clustering and prediction for on-line analysis.  
*30h (T), 45h (P); C*

ICS 405  **Software Engineering**  
*30h (T); C*

ICS 406  **IT Project-management**  
Issues in Information Technology Project: management, quality assurance, risk management, cost estimation, time management, human resource management, system reliability, system testing etc.  
*15h (T), 45h (P); C*

ICS 408  **Distributed Systems**  
*30h (T), 45h (P); C*

ICS 413  **Application Development for Mobile Devices**  
Information system applications on wireless infrastructure (multimedia messaging and mobile inventory control). Location aware services: wireless technologies, mobile information systems and applications. Wireless information system challenges and architectures. Mobile application. Thin and thick client mobile application development and business case studies.  
*15h (T), 45h (P); E*

ICS 414  **Knowledge Management**  
Knowledge management: organisation models, decision-making, strategic role of information/knowledge, theories, intellectual capital and globalization.  
*30h (T); E*
ICS 415  Professional Certification I  2 Credits
Preparation for certification in a relevant professional sequence from the university’s I.T. Academy.
15h (T), 45h (P); E

ICS 416  Professional Certification II  2 Credits
Preparation for certification in a second relevant professional sequence from the university’s I.T. Academy.
15h (T), 45h (P); E

ICS 417  Server Side Web Programming  3 Credits
Dynamic Content and the Web. Client/Server Architecture and Server applications. PHP Basics: introduction, conditional statements, Loops, Arrays, Functions, interactive Web Forms, server-side Form, validation, sessions and applications. MySQL basics. Database administration with MySQL. PHP communication with MySQL. Visual Basic and the .NET Framework. Visual Basic programming constructs: declaring and calling methods, handling exceptions, reading and writing files, creating new types, encapsulating data and methods, inheriting from Classes and implementing interfaces etc.
15h (T), 90h (P); Pr: ICS 206; C

ICS 418  Geographic Information Systems  2 Credits
15h (T), 45h (P); E

ICS 419  Data and Communities  2 Credits
30h (T); E

ICS 421  E-Business  2 Credits
30h (T); C

ICS 422  Decision Support Systems  2 Credits

30h (T); E

ICS 424 Privacy and Legal Issues in an Information Age 2 Credits
30h (T); C

ICS 426 Data Compression and Web-Based Multimedia 3 Credits
30h (T), 45h (P); C

ICS 499 Project 6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.
270h (P); C

SUMMARY
100 Level

Compulsory Courses: ICS 101 (2), 103 (2), 104 (2), 106 (2) = 8 Credits

Required Courses: MAC 101 (3), LIS 101 (2), 106 (2), CSC 111 (2), 112 (2)
TCS 111 (2), 112 (2), MAT 111 (3), 112 (3), STA 131 (2), 132 (2),
GNS 111 (2), 112 (2) = 29 Credits
Total = 37 Credits
200 Level
Compulsory Courses: ICS 204 (3), 205 (3), 206 (3), 208 (3), 209 (2), 210 (2), 211 (3), 213 (3)
= 22 Credits

Required Courses: TCS 221 (2), 208 (3), CSC 211 (3), 214 (2), LIS 218 (2), MAC 251 (2), GNS 211 (2), 212 (2)
= 18 Credits

Total = 40 Credits

Direct Entry students: GNS 111(2), 112(2)
= 4 Credits
Total = 44 Credits

300 Level
Compulsory Courses: ICS 313 (3), 321 (3), 392 (6)
= 12 Credits

Required Courses: TCS 321 (3), GNS 311(2), GSE 301(3)
= 8 Credits

Electives Courses: At least 4 Credits from the following:
ICS 315 (2), 317 (2), 319 (2)
= 4 Credits
Total = 24 Credits

400 Level
= 26 Credits

Required Courses: TCS 407 (2)
= 2 Credits

Electives Courses: At least 8 Credits from the following:
ICS 413 (2), 414 (2), 415 (2), 416 (2), 418 (2), 419 2), 422 (2),
TCS 428 (2), 429 (2)
= 8 Credits
Total = 36 Credits

Graduation Requirements:

UTME = 137
DE = 104
DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE
Course Description

B.Sc. Library and Information Science

LIS 101  Introduction to Information Professions  2 Credits
30h (T); C

LIS 102  Introduction to Libraries  2 Credits
30h (T); C

LIS 103  Library in its Social and Cultural Setting  2 Credits
Establishment and patterns of library services in developing countries. Library as medium of communication (relationship with other information and communications systems). Functions of different types of libraries. Oral traditions. Illiteracy concept and libraries. Intellectual freedom and censorship (copyright). The profession and professional responsibility.
30h (T); C

LIS 105  Basic Reference Sources and Services  2 Credits
Basic reference information sources and services. Bibliographic and access tools. Search strategy. Reference work. Online searching and use. Introduction to information literacy.
30h (T); C
LIS 106 The Information Users 2 Credits
30h (T); C

LIS 201 Organization of Knowledge I 2 Credits
15h (T), 45h (P); C

LIS 202 Organization of Knowledge II 2 Credits
Cataloguing of non-book materials. Classification schemes (LC, UDC). Application of computers to cataloguing: MARC formats, cataloguing software, online catalogues and LC subject cataloging.
15h (T), 45h (P); C

LIS 203 Library and Information Services to Rural Communities 2 Credits
30h (T); C

LIS 209 Introduction to Knowledge Management 2 Credits
Definitions. Importance of knowledge management in an organizational setting. Processes and theories, practices techniques and tools in knowledge management.
30h (T); C

LIS 211 School and Children Libraries 2 Credits
Selection and use of books and other media to meet the needs of children (kindergarten, junior and secondary school age). Brief surveys of the reading, viewing and listening experience of this group. Exploration of recreational, cultural, informational, and educational needs of children. Using resources in a variety of media formats to creatively provide information literacy activities for children.
30h (T); E
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIS 212</td>
<td>Information Sources and Services in Humanities, Social Sciences and Science &amp; Technology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Information sources and services. Information needs and seeking behaviours of experts. Relevant information systems. State of humanities, social sciences and science and technology in Nigeria. Agencies and stakeholders in Nigeria and Africa. Compilation of a bibliography.</td>
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<td>30h (T); E</td>
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<tr>
<td>LIS 213</td>
<td>Government Publications</td>
<td>2</td>
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<td>30h (T); E</td>
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<tr>
<td>LIS 214</td>
<td>Technical Services in Libraries &amp; Information Centers</td>
<td>2</td>
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<td></td>
<td>Survey of current operations and techniques in acquisition and organization for access. Physical processing. Maintenance of library materials. Management aspect of technical operations and services.</td>
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<td>30h (T); C</td>
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<tr>
<td>LIS 216</td>
<td>Information Ethics</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>LIS 218</td>
<td>Social Media and the Library</td>
<td>2</td>
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<tr>
<td></td>
<td>Introduction, definition and development. Distinction from other media. Classification, management and benefits of social media. Use of social media by the library. Creation of social media content for the library. Value of social networking in libraries and information centres.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>LIS 220</td>
<td>National and Public Libraries</td>
<td>2</td>
</tr>
</tbody>
</table>

30h (T); E

**LIS 222**  
**Academic and Special Libraries**  
2 Credits  

30h (T); E

**LIS 301**  
**Collection Development**  
2 Credits  

30h (T); C

**LIS 303**  
**Automation in Libraries and Information Centres**  
2 Credits  

15h (T), 45h (P); C

**LIS 305**  
**Reference and Information Sources and Services**  
2 Credits  

30h (T); R
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LIS 307</td>
<td>Management of Libraries and Information Centres</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>LIS 309</td>
<td>Research Methodology in Library and Information Science</td>
<td>2</td>
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<tr>
<td></td>
<td>Introduction to research. Research methodologies. Data collection instruments. Information resources in library and information science research. Writing a research proposal. Introduction to basic statistical concepts (descriptive and inferential statistics). Research proposal and report.</td>
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<td>45h (T); C</td>
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<tr>
<td>LIS 311</td>
<td>Publishing and Book Trade</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>LIS 312</td>
<td>Students’ Industrial Works Experiences Scheme (SIWES)</td>
<td>6</td>
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<td>Practical experience in libraries, archives and records management centres, publishing houses, information systems and information centres. Preparation of a detailed and analytical report for presentation and defence.</td>
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<td>270h (P); C</td>
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<tr>
<td>LIS 401</td>
<td>Indexing and Abstracting</td>
<td>2</td>
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<td></td>
<td>15h (T), 45h (P); C</td>
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<tr>
<td>LIS 402</td>
<td>Entrepreneurship in Information</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>LIS 403</td>
<td>Internet and Website Design</td>
<td>2</td>
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<tr>
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<td>Internet resources. Retrieval and searching techniques. HTML for designing WWW documents and pages. Aesthetic design principles. Consideration of potential users of web documents.</td>
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</tbody>
</table>
LIS 410  Records and Archival Management  2 Credits
30h (T); C

LIS 412  Preservation and Conservation of Library Materials  2 Credits
30h (T); C

LIS 415  Online information Retrieval  2 Credits
Theory and practice of information storage and retrieval in the online environment. History of online information industry. Types and structures of online databases. Basic search skills and search strategy development. Search techniques using commercial databases, CD-ROMs and Internet resources. 
15h (T), 45h (P); C

LIS 417  Desktop Publishing  2 Credits
30h (T); E

LIS 419  Database Management  2 Credits
30h (T); E

LIS 499  Project  6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project. 
270h (P); C
SUMMARY

100 Level

Compulsory Courses: LIS 101 (2), 102 (2), 103 (2), 155 (2), 106 (2) = 10 Credits

Required Courses: CSC 111 (2), CSC 114 (2), ICS 101 (2), ICS 106 (2), TSC 101 (2)
GNS 111 (2), GNS 112 (2) = 14 Credits

Additional courses from other Faculties:
BUS 101(3), BUS 102(3), BUS 103(3), BUS 108(3), SOC 102(2),
SOC 104(2), SOC 105(2), SOC 107(2), ECN 101(3), ECN 102(3),
STA 121(2), STA 124(2) = 16 Credits

Total = 40 Credits

200 Level

Compulsory Courses: LIS 201 (2), LIS 202 (2), LIS 203 (2), LIS 209 (2), LIS 213 (2),
LIS 214 (2), LIS 216 (2), LIS 218 (2) = 16 Credits

Required Courses: MAC 251 (2), MAC 236 (2), GNS 211 (2), GNS 212 (2) = 8 Credits

Electives Courses: At least 4 credits from:
LIS 211 (2), LIS 212 (2) LIS 220 (2) LIS 222 (2) = 4 Credits

Additional courses from other Faculties:
BUS 211(3), BUS 202(2), BUS 212(3), ECN 201(2), ECN 202(2),
ECN 205(3), ECN 206(2), SOC 204(2), SOC 205(2), SOC 206(2),
SOC 207(2), POS 211(2), POS 213(3), POS 214(3), PLB 202(3),
PLB 203(3), STA 204(2), STA 206(2) = 16 Credits

Total = 44 Credits

For Direct Entry Students: GNS 111 (2), GNS 112 (2) = 4 Credits

Total = 48 Credits
300 Level

Compulsory Courses: LIS 301 (2), LIS 303 (2), LIS 305 (2), LIS 307 (2), LIS 309 (2), LIS 311 (2), LIS 312 (6), = 18 Credits

Required Courses: GSE 30 (3), GNS 311 (2) = 5 Credits

Additional courses from other Faculties:
- BUS 302 (2), BUS 306 (3), BUS 308 (3), BUS 313 (3), BUS 321 (3),
- POS 314 (2), POS 315 (2), POS 322 (2), POS 324 (2), POS 325 (2),
- SOC 301 (2), SOC 303 (2), SOC 304 (2), SOC 305 (2), SOC 307 (2),
- SOC 308 (2) = 6 Credits

Total = 29 Credits

400 Level

Compulsory Courses: LIS 401 (2), LIS 402 (2), LIS 403 (2), LIS 410 (2), LIS 412 (2),
- LIS 415 (2), LIS 499 (6) = 18 Credits

Required Courses: MAC 312 (3) = 3 Credits

Electives Courses: At least 2 credits from:
- LIS 417 (2), LIS 419 (2) = 2 Credits

Additional courses from other Faculties:
- BUS 401 (3), BUS 402 (3), BUS 403 (3), BUS 406 (3),
- PLB 407 (3), PLB 409 (3), PLB 414 (3), POS 412 (2), POS 415 (2),
- POS 414 (2), POS 418 (2), SOC 401 (2), SOC 402 (2), SOC 406 (2),
- SOC 407 (2) = 14 Credits

Total = 37 Credits

Graduation Requirements:
- UTME = 150
- DE = 114
DEPARTMENT OF MASS COMMUNICATION
Course Description

B.Sc. Mass Communication

MAC 101  Introduction to Mass Communication  3 Credits
Definition and scope. Concepts, models, principles and challenges. Characteristics, functions, contents, operations and impact of
the mass media. National media systems and mass communication between and across nations.
45h (T); C

MAC 103  English Grammar and Journalistic Style  2 Credits
Development of journalistic style. Proficiency in grammar and the use of language. How to write for the print, broadcast and online
media.
30h (T); C

MAC 104  History of Nigerian Mass Media  2 Credits
Historical development of Mass Communication: nature, emergence and growth in Nigeria. Origin and development of print and
broadcast journalism in Nigeria. Multimedia and Online journalism.
30h (T); C

MAC 112  Writing for the Mass Media  2 Credits
The course is designed to expose students to all forms of writing for the Mass Media. It entails application of acquired writing
skills to writing news, advertising copies, press releases, broadcast scripts, and interviewing.
30h (T); C

MAC 113  African Traditional Communication Systems  3 Credits
Cultures of different African societies and their influence on mass media practice in Africa. Traditional modes of Mass
Communication: use of town-criers, markets, etc. Emergence of new modes of mass communication, modern media modes and
influence on information gathering and consumption.
30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 201</td>
<td>News Reporting and Writing</td>
<td>3</td>
<td>Basic requirements of news writing and reporting: news definition, general writing skills, types of lead. Preparing a mélange of basic journalism news stories, covering beats, journalism style and interview techniques for newspaper, magazine, radio and television. 30h (T); C</td>
</tr>
<tr>
<td>MAC 202</td>
<td>Theories of Mass Communication</td>
<td>3</td>
<td>Analysis of the different theories of Mass Communication and their application to media industry in Nigeria. Significant phenomena and principles of mass communication. Nature, perspectives, analysis and effects of mass communication. 45h (T); C</td>
</tr>
<tr>
<td>MAC 203</td>
<td>Introduction to Broadcast Production</td>
<td>3</td>
<td>Principles and techniques of writing and producing programmes for Radio and Television: writing and news production, public paid announcements, magazine, news commentaries, docUMEntaries, sports, discussion and interview programmes. Methods of producing television programmes: script writing, filming and directing. Duties of a producer. 30h (T), 45h (P); C</td>
</tr>
<tr>
<td>MAC 204</td>
<td>Feature Writing</td>
<td>2</td>
<td>Types of features: histories, backgrounders, obits, how-to and explanatory, consumer information, statistical pieces, first person, and participatory. Gathering and organising feature materials. Qualities and importance of good features. 30h (T); C</td>
</tr>
<tr>
<td>MAC 205</td>
<td>Introduction to Public Relations and its Techniques</td>
<td>2</td>
<td>Basic features and defining characteristics of Public Relations techniques. Emergence and growth of Public Relations. Public Relations theories. Place of the media in Public Relations practice. 30h (T); C</td>
</tr>
<tr>
<td>MAC 206</td>
<td>Specialised Reporting</td>
<td>2</td>
<td>Writing skills for different mass communication media: Journalism (print and electronic), advertising, public relations. Specialized beats in journalism: business and finance, crime, education, politics and law. 30h (T); C</td>
</tr>
<tr>
<td>MAC 207</td>
<td>Photo Journalism</td>
<td>3</td>
<td>Aspects of photography. Importance of photography in mass communication. Use of taking correct and illustrative shots, photo cropping and captioning. Field assignment, black-and-white processing with 35-mm camera technique.</td>
</tr>
</tbody>
</table>
MAC 208  Editing, Graphics and Desktop Publishing  3 Credits
Instructions in writing and editing copies in a style appropriate to the news media. Preparation of articles and photographs in phototyping for newspaper publication using editing symbols.
30h (T); 45h (P); C

MAC 209  Introduction to Advertising  2 Credits
Importance and relevance of advertising in industrial, commercial and governmental establishments. Creativity, planning and budgeting as relevant issues in advertising. Media selection and advertising.
30h (T); C

MAC 210  Basic Statistics for Communication and Information Sciences  2 Credits
Introduction to basic statistical techniques for data analysis in quantitative research. Techniques and/or tools of measures of central tendencies, measures of variations, correlation and various diagrams for data presentation.
30h (T); C

MAC 211  Foundation of Communication Research  2 Credits
Fundamentals of research procedure. Definition of scientific research, process of research, sampling procedure, design of research and research approaches.
30h (T); E

MAC 212  Advertising Media Planning  3 Credits
Relationship between advertising and marketing. Place of advertising and marketing theories and principles in industries, business and government functions. Marketing research, client service and consumer behaviour. Advertisers’ associations. Marketing and insurance. Marketing and entertainment.
30h (T), 45h (P); C

MAC 251  Communication and Information Basics  2 Credits
Fundamental knowledge relevant to the field of communication and information science. Basic practices in the field of Communication and Information Sciences. Discussion and practical tasks on the process of communication. ICTs, convergence of media communication, public speaking and writing skills for communication.
30h (T); R
MAC 301 Techniques of Radio and Television Production 3 Credits
Methods of producing programmes for radio broadcast. Operational techniques for script writing and recording. Approaches to programme production for television broadcast; scripting, editing (script and tape), directing, presentation and filming of programmes. Studio design, studio equipment and furnishing. 30h (T), 45h (P); C

MAC 302 Students’ Industrial Works Experience Scheme (SIWES) 6 Credits An opportunity for students to connect academic preparation with professional practice through a 6-month study tour in a media environment. 270h (P); C

MAC 303 Development Communication 2 Credits Origins, principles, strategies and application of Development Communication in the developing world. Comparative analysis of the strengths and weaknesses of development communication. 30h (T); C

MAC 305 Community Broadcasting 2 Credits Analysis of community needs and problems with regard to the role and qualities of radio and television. Planning of community development projects for implementation through special radio programmes. Programme production and evaluation research. 30h (T); E

MAC 307 Community Newspaper 2 Credits Writing, editing and publishing weekly or regular newspaper for the rural community, small municipalities and urban neighbourhoods. Content analysis, readership research, and business and management procedures. 30h (T); E

MAC 309 Public Relations and Advertising Research 3 Credits Research techniques used to carry out studies concerning Public Relations and Advertising processes. Procedure for carrying out research on Advertising messages as well as evaluation of Public Relations and Advertising campaign. 30h (T), 45h (P); C

MAC 311 International and Foreign Communication 2 Credits History, channels, contents, technologies, policies and regulations of international communication systems. Divergences in media development between developed and developing nations. New world information order and the emergence of global communication. Comparative analysis of national systems of broadcasting worldwide: ownership, control, programming purposes and effects or impact. International organisations dealing with technical facilities and programmes. Purposes and impact of external radio broadcasting stations.
MAC 313  Mass Media Management  3 Credits
45h (T); C

MAC 315  Mass Media and Society  2 Credits
Influence of communication technologies and media content on the society and its culture. Media representation and shaping of individual identity and values. Implications of contemporary technologies.
30h (T); C

MAC 317  Techniques of Speech Production  2 Credits
Effective speech writing and delivery. Skills required to anchor programmes and prepare speeches for Chief Executives. Various speech activities at both interpersonal and mediated levels to establish types of speech, styles of speech delivery and speech criticisms. Challenges to effective speech delivery (stage fright and anxieties). Building confidence. Guide to writing formal speeches and event planning and execution.
30h (T); C

MAC 321  Consumer Behaviour  2 Credits
Meaning of consumption, consumer behaviours and marketing strategy. Consumer motives, goals and involvements, consumption subculture and lifestyle. Consumer’s decision making process and attitude. Consumer association and pressure groups.
30h (T); E

MAC 401  Advertising and Public Relations Campaign Strategies  3 Credits
30h (T), 45h (P); C

MAC 402  Data Journalism  2 Credits
Precision journalism that entails specialized skills in investigating and reporting using quantitative research method of collecting and analyzing data for news stories and news analysis. Basic theory, methods and tools of data journalism. Collecting and analyzing data for opinion polls and how to contextualize findings and conclusion from data to specific situations. Creating small survey for a selected group of people, interpreting specific data set by using graphs and maps as news stories and news analysis.
MAC 403  Advanced Radio Production  3 Credits
Production of different programmes: news, current affairs, magazines, drama, poetry, interviews for broadcast on radio. Visits to radio stations to observe various aspects of radio production and broadcast.
30h (T), 45h (P); C

MAC 404  Advanced Television Production  3 Credits
Production of different programmes for broadcast on television. Visits to television houses for practical experience in various aspects of television production.
30h (T), 45h (P); C

MAC 405  Humanitarian Journalism  2 Credits
Critical debates on the media and the political economy of humanitarian interventions involving state and civil society actors. Comparing and contrasting human rights reporting and humanitarian or human rights journalism. National and international political, legal, economic and cultural structures that impact on the realization of the rights of people. Placing journalistic practice right at the heart of such structures. How to report various humanitarian crises in the world with a view to contributing to their quick resolutions and better understanding by the public. Critical role of the journalist (as a duty bearer) in the promotion and protection of human rights in times of peace or crisis.
30h (T); C

MAC 406  Political Communication  2 Credits
Classic works and fresh trends in political communication. Political organisation, electoral and legislative processes, civic engagement, media and politics, public deliberation and opinion formation. Political identity and discourse.
30h (T); E

MAC 407  Investigative Journalism  3 Credits
Techniques of investigative reporting. Use of high-tech record research and traditional approach. Acquiring skills in recognising corruption, conflict of interest and hypocrisy. Use of court records. Developing sources and examining advanced interview techniques.
30h (T), 45h (P); C

MAC 408  Editorial and Commentary Writing  2 Credits
Writing editorials and opinions. Writing newspaper editorials and columns in order to have an understanding of the gap between news and opinion content in journalism.
15h (T), 45h (P); E
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MAC 409</td>
<td>Media Law and Ethics</td>
<td>3</td>
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<td>45h (T); C</td>
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<tr>
<td>MAC 410</td>
<td>Critical Issues in Mass Media</td>
<td>2</td>
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<td></td>
<td>Critical analysis of significant events and personalities that have featured in and characterised the Nigerian mass media from the political, social and economic points of view. Dynamics of the mass media in Nigeria and their institutional roles.</td>
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<tr>
<td>MAC 411</td>
<td>Data Analysis in Communication Research</td>
<td>2</td>
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<td>Data analysis technique: use of tables, graphs and the measures of central tendency. Data presentation and interpretation.</td>
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<td>30h (T); C</td>
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<tr>
<td>MAC 412</td>
<td>Newspaper and Magazine Production</td>
<td>3</td>
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<td>Techniques of newspaper and magazine designs. Skills in newspaper and magazine production. Assessing newspaper layouts and contents. Processing of editorial materials;</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>MAC 413</td>
<td>Foreign Correspondence</td>
<td>3</td>
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<td>Knowledge, principles and practice of reporting from outside one’s country. History of foreign correspondence, establishing its needs and its continuous relevance in the age of globalization. Preponderance of international news agencies as well as technological advancement. Peculiarities of the practice of foreign correspondence that make it different from general journalistic practice within a nation.</td>
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<td>45h (T); C</td>
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<tr>
<td>MAC 414</td>
<td>Critical Review and Writing</td>
<td>2</td>
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<td>News writing or consent of instructor. Theory and practice of reviewing the lively arts for a daily newspaper. Writing reviews of plays, movies, television programmes, musical and dance events.</td>
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<td></td>
<td>30h (T); C</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>MAC 415</td>
<td>Drama and Documentary Production</td>
<td>2</td>
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<td>Problems involved in producing drama and documentary for radio and television, blocking, casting, budgeting and performance. Focus on drama or documentary for both radio and television or drama and documentary for only radio or television.</td>
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<td></td>
<td>15h (T), 45h (P); E</td>
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<tr>
<td>MAC 416</td>
<td>Media Policy in Nigeria-</td>
<td>2</td>
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<td>Media system in Nigeria during the military and democratic regimes. Deregulation and liberalisation of broadcasting (NBC). Regulation of media operation through various decrees and Acts. Press Freedom in Nigeria. Regulation of the film industry (NRVCB).</td>
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<tr>
<td>MAC 417</td>
<td>Global Journalism</td>
<td>2</td>
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<td>This course is designed as an analysis of global journalism issues and is intended to give the students a broad and critical understanding of the principles and practice of journalism on a global platform. It also introduces students to the ways through which they can better appreciate their local cultural contexts through the prism of a global narrative of journalistic practice.</td>
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<tr>
<td>MAC 418</td>
<td>Gender and Communication</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>MAC 419</td>
<td>Cross-cultural Communication</td>
<td>2</td>
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<td>Nature of communication between different cultures. Includes the processes as they occur in sojourns, immigration, negotiations, and conversations across national boundaries. Identity formation and expression, cross-cultural ties, profiling, prejudice, and group affiliation.</td>
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<tr>
<td>MAC 420</td>
<td>Educational Broadcasting</td>
<td>2</td>
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<td>Educational potentialities and limitations of radio and television. Pedagogic approaches and production techniques; radio forums and clubs. Planning and production of educational programmes. Production of supplementary materials and teaching aids.</td>
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<td>15h (T), 45h (P); E</td>
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</table>
### MAC 422  Organisation and Management of Advertising and Public Relations  3 Credits
Guidelines for starting an enterprise in Advertising or Public Relations. Organisation and management of the various departments of a full-service agency.
45h (T); C

### MAC 499  Project  6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.
270h (P); C

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**SUMMARY**

**100 Level**

**Compulsory Courses:**
- MAC 101 (3), MAC 102 (2), MAC 103 (2), MAC 104 (3), MAC 111 (2)
  = 12 Credits

**Required Courses:**
- GNS 111 (2), GNS 112 (2), ICS 101 (2), ICS 106 (2), LIS 105 (2), LIS 106 (2), POS 115 (2), POS 116 (2)
  = 16 Credits

**Elective Courses:**
- At least 8 credits
  = 8 Credits

**Total= 36 Credits**

**200 Level**

**Compulsory Courses:**
- MAC 201 (3), MAC 202 (3), MAC 203 (3), MAC 204 (2), MAC 205 (2), MAC 206 (2), MAC 207 (3), MAC 208 (3), MAC 209 (2), MAC 210 (2), MAC 211 (2), MAC 212 (2)
  = 29 Credits

**Required Courses:**
- MAC 251 (2), GNS 211 (2), GNS 212 (2)
  = 6 Credits

**Elective Courses:**
- At least 8 Credits
- MAC 211 (2), POS 213 (3), SOC 207 (2), ENG 203 (2),
ENG 205 (3), SOC 210 (2), MAC 214 (3), ENG 204 (2), ENG 210 (3)
  = 8 Credits
Total = 43 Credits

For Direct Entry Student:  GNS 111(2), GNS 112(2)
  = 4 Credits
Total = 47 Credits

300 Level
Compulsory Courses:  MAC 301 (3), MAC 302 (6), MAC 303 (2), MAC 309 (2),
MAC 311 (2), MAC 313 (2), MAC 315(2), MAC 317 (2)
  = 17 Credits
Required Courses:  GNS 311 (2); GSE 301 (3)
  = 5 Credits
Elective Courses:  At least 8 credits
MAC 305 (2), MAC 307 (2), MAC 321 (2), MAC 320 (2), MAC 322 (2)
  = 8 Credits
Total = 30 Credits

400 Level
Compulsory Courses:  MAC 402 (2), MAC 405 (3), MAC 409 (3), MAC 410 (2),MAC 411 (2),
MAC 413 (2), MAC 414 (2), MAC 416 (2), MAC 499 (6)
  =24 Credits
For Broadcast Sequence/Option:  MAC 403 (3); MAC 404 (3)
  = 6 Credits
For Print Sequence/Option:  MAC 407 (3); MAC 412 (3)
  = 6 Credits
For Public Relations & Advertising Sequence/Option:  MAC 401 (3), MAC 422 (3)
  = 6 Credits
Elective Courses:  At least 6 Credits from the following:
MAC 406 (2), MAC 415 (2), MAC 417 (2), MAC 419 (2),
MAC 418 (2), MAC 420 (2), MAC 422 (2)
  = 6 Credits
Total = 36 Credits

Graduation Requirements:
  UTME = 145
  DE = 113
DEPARTMENT OF TELECOMMUNICATION SCIENCE

Course Description

B.Sc. Telecommunication Science

TCS 111 Introduction to Telecommunications  2 Credits
30h (T); C

TCS 112 Telecommunication and Networks I  2 Credits
30h (T); C

TCS 204 Electromagnetic Fields and Waves  2 Credits
Electrostatics, Megnetostatics, Propagation of Em. wave in free space and in material media. Dielectric conductors and ionized media. Transmission line theory, including waveguide and resonators. Radiating elements and Antenna theory.
30h (T); C

TCS 205 Logic Circuit  2 Credits
Logic Circuit: binary system, Boolean algebra, Switching Circuit Design and analysis. Design of Combinational logic circuits. Flip Flops, Shift Registers
30h (T); C

TCS 207 Transmission Systems  2 Credits
30h (T); C
TCS 208  Wireless System and Cellular Communication I  
30h (T); 45h (P); C

TCS 221  Telecommunication and Networks II  
30h (T); C

TCS 222  Networking I  
15h (T), 45h (P); C

TCS 224  Workstation and Server Applications  
Installing, configuring, and administering server application using multiple standard operating system and Microsoft Windows utilizing the current commercial version of the product for both workstations and servers. Server applications include World Wide Web, FTP, software updates, mail, file sharing, DNS, DHCP, and terminal services. 
15h (T); 90h (P); C

TCS 310  Students’ Industrial Works Experience Scheme (SIWES)  
Exposure of students to practical aspects of telecommunication especially in telecom or related industry. Students should submit and defend report after the completion of the industrial attachment. 
270h (P); C

TCS 321  Wireless System and Cellular Communication II  
UMTS services offered, network requirements, evolution from GSM, technology underpinning UMTS, network architecture. 2G-3G links, wideband CDMA, chip rates and spreading codes, correlation and de-correlation techniques, processing gain and
effects on capacity and E/N of loading, sectorisation, introduction to handover in WCDMA, voice activity, capacity limitations, link budget and load factor, transport and physical channels

45h (T); C

TCS 323  **Pulse and Data Communication**  
3 Credits  
45h (T); C

TCS 325  **Broadband Wireless Network I**  
2 Credits  
15h (T), 45h (P); C

TCS 327  **Network Programming**  
3 Credits  
30h (T), 45h (P); C

TCS 329  **Networking II**  
2 Credits  
15h (T), 45h (P); C

TCS 331  **Research Methods**  
2 Credits  
TCS 407  Network Security I  2 Credits
Network security and cryptographic protocols. Network vulnerabilities, attacks on TCP/IP, network monitoring, security at the link, network and transport layers. Cryptography e.g. secret and public key schemes, message authentication codes and key management. WLAN security: IPSec, SSL, and VPNs. E-mail security (PGP, S/MIME), Kerberos, X.509 certificates, AAA and Mobile IP, SNMP security, firewalls, filters and gateways. Policies and implementation of firewall policies, stateful firewalls, firewall appliances. Network-related physical security, risk management and disaster recovery/contingency planning issues and housekeeping procedures.
15h (T), 45h (P); C

TCS 408  Network Security II  2 Credits
15h (T), 45h (P); E

TCS 410  Telecommunication Network Administration  2 Credits
Issues and concerns required to manage telecommunications networks and contemporary problems. Network management protocols, (in particular of SNMP and TMN network management principles, architectures and implementations. Discussion of systems analysis design and implementation of telecommunication system with a special emphasis on wide area networking and inter networking system.
15h (P); C

TCS 412  Multiservice Networks  2 Credits
Introduction to QoS and Integrated Services architecture. ATM, Packets vs. circuits, MPLS and media encoding. IntServ, scheduling, RSVP, IP Telephony and IPTV. Multicast, Network performance and scheduling. DiffServ and DiffServ-enabled MPLS. Multicast: protocols & implementation, research directions.
15h (T); 45h (P); C

TCS 421  Optical and Broadband Communication I  2 Credits
Light sources, light detectors, optical fibres, principles of light transmission, types of fibre and light transmission through a fibre. Attenuation, dispersion mechanisms and minimisation. DCF fibre and nUTMErical aperture. Fibre system testing and measurements: OTDR, power budgets, rise-time budgets and bit-error rate. Optical amplifiers: EDFA, Raman and semiconductors optical amplification architecture, operation, characteristics, noise and applications, fibre connectors, splices and couplers.
TCS 422  Optical and Broadband Communication II  2 Credits
WDM systems: system design and performance and multiplexing technologies. Transport technologies: PDH, SDH and FDDI. Broadband technologies: B-ISDN, WLL, xDSL, -theoretical concepts and comparison with fibre for use in local loop FTTC, FTTH, WAN/LAN  backbone and core. All-Optical networks including optical cross connects and optical ADMs. Network applications: Core/ Metro/ Access networks.
30h (T); C

TCS 423  Wireless System and Cellular Communication III  2 Credits
Sectorisation, voice activity, capacity limitations, adaptive multi-rate codec, traffic and noise related dynamic adaption. Inner loop and outer loop power control, handover (soft, softer and hard), intra-mode handover, radio link structure, multiplexing, modulation in different channels and, framing channels. Full description of all channels and data carried. Data interleaving, cell searching procedure, TDD system signals and call setup procedure. Network architecture. 2G-3G links. IP, IP mobility, Mobile IP, VOIP, and 4G proposal.
15h (T), 45h (P); C

TCS 424  Satellite Communication Systems  2 Credits
30h (T); C

TCS 425  Digital Signal Processing I  2 Credits
30h (T); C

TCS 426  Digital Signal Processing II  2 Credits
Infinite impulse response filters (IIR). Finite impulse response filters (FIR) and filter realizations. Hardware design using DSP Chips.
30h (T); C

TCS 427  Networking III  2 Credits
WAN technologies and devices required for Network and Internet Communications. Implementing Data Link Protocols Including

15h (T), 45h (P); E

**TCS 429 Multimedia Communication I**  
2 Credits


30h (T); C

**TCS 430 Telecommunication Project Management**  
2 Credits

Developing a business plan, estimating revenues and costs, sources of data, network costing issues, and interconnection. Theoretical background in economics and regulatory trends in international telecommunications.

30h (T); C

**TCS 499 Project**  
6 Credits

Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

270h (P); C
SUMMARY

100 Level

Compulsory Courses: TCS 111 (2), 112 (2) = 4 Credits

Required Courses: CSC 111(2) 112(2), ICS 101(2), 106(2), STA 124(2), 131(2), MAT 111(3), 112(3), 113(3), 114(3), PHY 115(2), 152(3), ECN 101(3), GNS 111(2), 112(2) = 36 Credits

Total = 40 Credits

200 Level

Compulsory Courses: TCS 221 (2), 222 (2), 204 (2), 205 (2), 207 (2), 208 (3), 224 (3) = 16 Credits

Required Courses: MAC 251 (2), CSC 211 (3), MAT 213 (2), ELE 201 (2) GNS 211 (2), ABE 263(3), CHE 264 (3), CSC 212 (3), ELE 202 (2), GNS 212 (2) = 24 Credits

Total = 40 Credits

Direct Entry Students: GNS 111(2), 112 (2) TCS 111 (2), 102(2) = 8 Credits

Total = 48 Credits

300 Level

Compulsory Courses: TCS 321 (3), 323 (3), 325 (2), 327 (3), 329 (2), 340 (2), 310 (6) = 21 Credits

Required Courses: GSE 301 (3) GNS 311 (2) MEE 361 (3) = 8 Credits

Total = 29 Credits

400 Level

Compulsory Courses: TCS 421 (2), 422 (2), 423 (2), 424 (2), 425 (2), 426 (2), 407 (2), 428 (2), 410 (6) 427 (2), 412 (2), 429 (2), 417 (2) = 30 Credits
Required Course: ICS 424(2) = 2 Credits

Elective Courses: At least 8 credits from the following:
TCS 408 (2), 414 (2) ICS 405 (2), 408 (2) 413 (2) 418 (2), ICS 313(3), 408(2), 418(2),
= 8 Credits

Total = 40 Credits

Graduation Requirements:
UTME = 149
DE = 117
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<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
</tr>
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<tbody>
<tr>
<td>A. A. Fajonyomi</td>
<td>B.Sc. (Ed.), M.Ed., Ph.D. (Ibadan)</td>
<td>Professor</td>
</tr>
<tr>
<td>E. K. Ola-Alani</td>
<td>B.Ed., M.Ed, Ph.D. (Ibadan)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>R. Abdulwahab</td>
<td>B.Ed., M.Ed.(UDUS)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Y. A. Kuranga</td>
<td>B.Sc., M.Ed. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>S. T. Kayode</td>
<td>B.Ed., M.Ed.(Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>R. M. O. Mohammed</td>
<td>B.Ed., M.Ed. (Maiduguri)</td>
<td>Graduate Assistant</td>
</tr>
<tr>
<td>A. K. Abdullahi</td>
<td>B.Ed. (Maiduguri)</td>
<td>Graduate Assistant</td>
</tr>
</tbody>
</table>

**DEPARTMENT OF ARTS EDUCATION**

R. A. Lawal  B.A.(Ed.) (ABU); M.Ed., Ph.D. (Ibadan)  Professor

A. G. A. S. Oladosu  B.A., M.A. (Cairo); Ph.D. (Ilorin)  Professor

S. B. Olajide  B.A.(Ibadan); PGDE, M. Ed., Ph.D. (Ilorin) Senior Lecturer

A. F. Oyelade

U. A. Ajidagba  B.Ed. (Jos); M.Ed., Ph.D. (OAU)

B.A. (Ed.), M.Ed., Ph.D. (Ilorin)  Senior Lecturer

Senior Lecturer

Zainab A. Abudu  B.A., PGDE, M.A., M.Ed., Matier FLE (Besancon) Lecturer I

A. Saidu  B.A. (Ed.), M.Ed., Ph.D. (Ilorin)  Lecturer II

M. I. Oniye  B.A. (Ed.) (Ilorin); M.Ed. (Ibadan)  Lecturer II


Aminat O. Aburime  B.A. (Ed.), M.Ed. (Ilorin)  Assistant Lecturer

Oyeyemi J. Jekayinfa  B.A., PGDE (Ilorin), M.A. (Ibadan), M.A. (Ed.) (Liverpool)  Assistant Lecturer

S. K. Olowookere  B.Th. (UMCA, Ilorin); PGDE, M.Ed. (Ilorin)  Assistant Lecturer

O. D. Ojo  B.A. (Ed.), M.Ed. (Ilorin)  Assistant Lecturer
DEPARTMENT OF COUNSELLOR EDUCATION

L. A. Yahaya  
B.Ed., M.Ed., MPA, Ph.D. (Ilorin)  
Reader & Ag. Head

A. I. Idowu  
B.Sc. (Ed.) (OAU); M.S.(Ed.) (UW - W); 
Ph.D. (Pittsburgh), FCASSON  
Professor

S. H. Umoh  
B.A. (UPS); M.Sc.(TSU); Ed.D. (UTK)  
Professor

A. A. Adegoke  
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FCASSON  
Professor

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Professor

Irene A. Durosaro  
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(Ilorin)  
Professor

Mary G. Fajonyomi  
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Ph.D. (Maiduguri)  
Professor

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Senior Lecturer

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Senior Lecturer

Falilat A. Okesina  
Lecturer II

S. K. Ajiboye  
Lecturer II

Foluke N. Bolu-Steve  
Lecturer II

Mulikat L. A. Mustapha  
Lecturer II

Aminat A. Odebode  
B.Ed., M.Ed. (Ilorin)  
Lecturer II
<table>
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<tr>
<th>Name</th>
<th>Education Details</th>
<th>Position</th>
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<tr>
<td>Mariam. B. Alwajud-Adewusi</td>
<td>B.Sc. (Ilorin); PGDE, M.Ed. (Ibadan)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>L. O. Adegboyega</td>
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<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Adenike Adeboye</td>
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<td>Assistant Lecturer</td>
</tr>
<tr>
<td>D. O. Adebayo</td>
<td>B.Ed., M.Ed. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
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</table>

**DEPARTMENT OF EDUCATIONAL MANAGEMENT**

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<thead>
<tr>
<th>Name</th>
<th>Education Details</th>
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<tbody>
<tr>
<td>Afusat T. Alabi</td>
<td>B.Sc. (Ed.), M.Ed., Ph.D. (Ilorin)</td>
<td>Senior Lecturer &amp; Ag. Head</td>
</tr>
<tr>
<td>A. O. Sofoluwe</td>
<td>B. Ed. (ABU); M.Ed., Ph.D. (Ilorin)</td>
<td>Reader</td>
</tr>
<tr>
<td>D. O. Durosaro</td>
<td>B.Ed. (Ilorin); M.Ed., Ph.D. (Ibadan)</td>
<td>Professor</td>
</tr>
<tr>
<td>Nike Y. S. Ijaiya</td>
<td>B.Ed. (ABU); M.Ed., Ph.D. (Cardiff), FNAEAP</td>
<td>Professor</td>
</tr>
<tr>
<td>N. B. Oyedeji</td>
<td>BB.Ed. (ABU); M.Ed., Ph.D. (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>A. Y. Abdulkareem</td>
<td>B.Ed. (Ibadan); M.Ed., Ph.D. (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>Rhoda O. Oduwaiye</td>
<td>B.A. (Ed.), M.Ed., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Y. A. Fasasi</td>
<td>B.Ed.(Ibadan); M.Ed., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>Patricia A.O. Etejere</td>
<td>B.A. (Ibadan); M.Ed., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
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<tr>
<td>Nimota, J.K. Abdullahi</td>
<td>B. Ed., M.Ed.(Ilorin), Ph.D. (Sokoto)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>A. A. Sheu</td>
<td>B.Sc. (Ed.), M.Ed., Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
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<tr>
<td>H. A. Umaru</td>
<td>B.Sc. (Ed.); BB.Ed, (ABU), M.Ed., Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
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<tr>
<td>A. A. Atolagbe</td>
<td>BSc. (Ed.), M.Ed., Ph.D. (Ilorin)</td>
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<td>A. A. Tijani</td>
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<td>D. J. Kayode</td>
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<tr>
<td>A. A. Lawal</td>
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<td>Lecturer II</td>
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<td>R. L. Abdulkareem</td>
<td>B.Ed., M.Ed. (Lagos)</td>
<td>Lecturer II</td>
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<tr>
<td>Habibat A. Yusuf</td>
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<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Ogbudinkpa C. Ijeoma</td>
<td>B. Ed., M.Ed. (Ilorin)</td>
<td>Assistant Lecturer</td>
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**DEPARTMENT OF EDUCATIONAL TECHNOLOGY**
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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>M. O. Yusuf</td>
<td>B.A. (Ed.), M.A. (Ed.) (OAU); Ph.D.</td>
<td>Professor &amp; Head (Ilorin)</td>
</tr>
<tr>
<td>O. O. Obielodan</td>
<td>NCE., B.A., M.Ed. (ABU), Ph.D. (Ilorin)</td>
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</tr>
<tr>
<td>M. A. Fakomogbon</td>
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</tr>
<tr>
<td>Oyeronke O. Ogunlade</td>
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</tr>
<tr>
<td>Nasifat A. Adedokun</td>
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</tr>
<tr>
<td>A. I. Issa</td>
<td>B.Tech. (FUTM); M.Ed., Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
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<tr>
<td>A. A. Falade</td>
<td>NCE (Tech) B.Tech.Ed. (FUT Yola); M.Ed., Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>A. A. Abd-Elaziz</td>
<td>B.Sc.(Ed.), M.Ed., Ph.D. (UNN)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>A. A. Amosa</td>
<td>B.Ed., M.Ed. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
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</table>
J. N. Alasan  B.A. (Ed.); (EKSU), MFA (ABU)  Assistant Lecturer
K. K. Oladosu  B.Ed. (Ilorin); M.Ed. (Lagos)  Assistant Lecturer
A. E. Alimi  B.Sc. (Ed.) (EKSU); M.Ed. (Ilorin)  Assistant Lecturer
T. A. Sanni  B.Tech. (FUTYola); M.Tech. (FUTM)  Assistant Lecturer
S. J. Obadoyin  B.Sc. (Ed.) (EKSU); M.Ed. (Benin)  Assistant Lecturer
S. A. Hamza  B.A. (ABU)  Graduate Assistant
K. J. Muhammed  B.Sc. (Ed.) (EKSU)  Graduate Assistant
A. M. Aderoju,  B. Ed. (Ilorin)  Graduate Assistant

DEPARTMENT OF HEALTH PROMOTION AND ENVIRONMENTAL HEALTH EDUCATION

R. A. Shehu  B.Sc. (Ed.), M.Ed. (Ilorin), Ph.D.  Senior Lecturer & Ag.Head (ABU)

E. A. Ogunsakin  B.Sc. (Fordham); NPS (Long Island); Professor M.Sc., Ed.D. (Columbia)

O. A. Onifade  B.Sc. (Port Harcourt); M.Ed., Ph.D.  Senior Lecturer (Ilorin)
<table>
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<tr>
<th>Name</th>
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<tr>
<td>O. L. Olaitan</td>
<td>B.Sc. (Ed.), M.Ed., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
</tr>
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<td>S. O. Oniyangi</td>
<td>B.Ed., M.Ed., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>I. Ologele</td>
<td>B.Sc.(Ed.), M.Ed., Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>D. A. Baba</td>
<td>B.Sc. (Ed.), M.Ed. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Kafayat A. Jidda</td>
<td>B.Sc.(Ed.), M.Phil. (Ibadan)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Adijat M. Elias</td>
<td>B.Sc. (Ed.), M.Ed. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>I. I. Kperogi</td>
<td>B.Sc. (Ed.), M.Ed. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Felicia J. James</td>
<td>B.Sc.(Ed.), M.Ed. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Q. O. Abdulrasaq</td>
<td>B.Sc.(Ed.) (Ilorin)</td>
<td>Graduate Assistant</td>
</tr>
<tr>
<td>S. N. Akorede</td>
<td>B.Sc.(Ed.) (Ilorin)</td>
<td>Graduate Assistant</td>
</tr>
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</table>

**DEPARTMENT OF HUMAN KINETICS EDUCATION**

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
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<tbody>
<tr>
<td>T. O. Ibraheem</td>
<td>B.Sc.(Ed.), M.Ed. (Ilorin); Ph.D. (Ibadan)</td>
<td>Senior Lecturer &amp; Ag. Head</td>
</tr>
</tbody>
</table>
A. A. Adesoye  
B.Ed. (ABU); M.Ed., Ph.D. (Ibadan)  
Professor

O. O. Obiyemi  
B.Sc. (OAU); M.Ed., Ph.D. (Benin)  
Professor

A. E. Talabi  
B.Sc., M.Ed., Ph.D. (Ibadan)  
Professor

Olufunmilola L. Dominic  
B.Sc. (Ed.), M.Ed. (Ilorin); Ph.D. (ABU)  
Senior Lecturer

S. T. Bakinde  
Lecturer II

Memunat T. Ajadi  
B.Sc. (Ed.), M.Ed., Ph.D. (Ilorin)  
Lecturer II

B. S. Adebayo  
B.Ed., M.Ed., Ph.D. (Ibadan)  
Lecturer II

M. G. Aina  
NCE, B.Ed., M.Ed. (Ilorin)  
Assistant Lecturer

Y. O. Abdulraheem  
B.Sc. (Ed.), M.Ed. (Ilorin)  
Assistant Lecturer

M. O. Ibraheem  
B.Sc. (Ed.) (Ilorin), M.Ed.(Ibadan)  
Assistant Lecturer

S. A. Adeoye  
B.Sc. (Ed.) (Ilorin)  
Graduate Assistant

DEPARTMENT OF SCIENCE EDUCATION

Medinat F. Salman  
B.Ed. (ABU); M.Ed., Ph.D. (Ilorin)  
Professor & Head
M. O. Fajemidagba  B.Sc.(Ed.) (OAU), M.Sc., Ed.D. Professor
(SUNY-Albany)

I. O. Abimbola  B.Sc.(Ed.) (OAU); M.Sc., Ph.D. Professor
(Wisconsin)

A. S. Olorundare  B.Sc. (Ed.), M.Ed. (ABU); Ph.D. Professor
(Wisconsin)

Esther O. Omosewo  B.Sc.(Ed.), M.Ed., Ph.D. (Ilorin)  Professor

Mulkah A. Ahmed  B.Ed. (ABU); M.Ed., Ph.D. (Ilorin)  Lecturer I

G. Bello  B.Sc.(Ed.), M.Ed., Ph.D. (Ilorin)  Lecturer I

O. S. Oyelekan  B.Ed.(Ibadan); M.Ed., Ph.D. (Ilorin)  Lecturer I


M. A. Akanmu  B.Sc.(Ed.), M.Ed., Ph.D. (Ilorin)  Lecturer II

J. E. Upahi  B.Sc.(Ed.), M.Ed. (Ilorin)  Assistant Lecturer

S. B. Jimoh  B.Agric. (ABU), M.Sc. Agric. Assistant Lecturer
(Ilorin), PGDE (EKSU)

K. O. Afolabi  B.Sc.(Ed.), M.Sc. (UNN)  Assistant Lecturer

R. E. Mohammed  B.Sc. (Ed.), M. Ed. (Ilorin)  Assistant Lecturer

Hafsat I. Alabi  B.Sc.(Ed.), M.Ed. (Ilorin)  Assistant Lecturer

Saidat M. Salaudeen  B.Sc. (Ed.) (Ilorin)  Assistant Lecturer

DEPARTMENT OF SOCIAL SCIENCES EDUCATION

Alice A. Jekayinfa  B.A. (Ed.), M.Ed., Ph.D. (Ilorin)  Professor & Head
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.O. Daramola</td>
<td>B.Sc.(Ed.)(UDUS); M.Ed. (Jos), Ph.D. (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>O. E. Abdullahi,</td>
<td>B.A. (Ed.), M.Ed. (BUK), M.Ed. (Ibadan), Ph.D. (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>Felicia A. O. Olasehinde-Williams</td>
<td>B.Ed. (ABU), M.Ed. (Madras), Ph.D. (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>A. A. Ogunlade</td>
<td>B.Sc., B.Ed., M.Ed.(Madras), Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Bolanle O. Olawuyi</td>
<td>B.Ed., M.Ed. (Ibadan), Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>Olufunmilayo Mowaye-Fagbemi</td>
<td>B.A.(Ed.), M.Ed., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>R.W. Okunloye</td>
<td>B.A. (Ed.) (Lagos), M.Ed., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>O. O. Amali</td>
<td>B.Ed., M.Ed. (Jos), Ph.D. (Maiduguri)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Muslimat A. Nuhu</td>
<td>B.Ed. (ABU), M. Ed., Ph. D. (Ilorin)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Muinat B. Bello</td>
<td>NCE, B.Ed. (ABU), M.Ed. (UDUS), Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
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</table>
**Course Description**

**FACULTY COURSES**

**EDU 111**  
*Introduction to the Teaching Profession*  
2 Credits  
Awareness and basic information about teacher’s role in communities and nation building, professionalization of teaching, ethics of teaching, unionism and other professionals in education.  
30h (T); C

**EDU 112**  
*Foundations of Education*  
2 Credits  
Educational development and institutions from ancient times to the present with particular reference to the evolution of modern education in Nigeria. Introduction to major sociological, philosophical and psychological ideas which have influence on education.  
30h (T); C

**EDU 211**  
*Educational Psychology*  
2 Credits  
Theories and conditions of learning and teaching with emphasis on individual differences: motivation; retention; transfer of learning.  
30h (T); C

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Ifeoma P. Okafor  
Lecturer II

Dorcas S. Daramola  
B.Ed., M.Ed. (Ilorin)  
Assistant Lecturer

M. I. Jimoh  
NCE, B.Sc.(Ed.) (Jos); M.Ed. (Ilorin)  
Assistant Lecturer

A. O. Balogun  
B.Sc.(Ed.), M.Ed. (Ilorin)  
Assistant Lecturer

Obiageli E. Uyanne  
B.Ed., MPA, M.Ed. (Ilorin)  
Assistant Lecturer
EDU 212  Tests and Measurement  2 Credits
30h (T); C

EDU 213  Method Courses I  2 Credits
Aims and objectives of teaching a selected subject; approaches to teaching the selected subject; trends in curricular reforms in the selected subject; lesson notes preparation and appropriate peer teaching exercise.
30h (T); C

EDU 214  Educational Technology  2 Credits
Eclectic approach to the design process, application and effects of technique in the teaching and learning situation. Knowledge on the systematic production, effective use and evaluation of inexpensive and locally made instructional materials for instructional purpose.
15h (T), 45h (P); C

EDU 215  Sociology of Education  2 Credits
Basic concepts in sociology of education and social psychology. Social structures and the socialization of the child. Dynamics of school groups, group influence, attitudes, motivation and achievement. Sociology of school education, social stratification, social mobility, social change and social problem solving.
30h (T); C

EDU 216  History and Policy of Education in Nigeria  2 Credits
30h (T); C

EDU 311  Teaching Practice I  2 Credits
Observational teaching in post-primary institutions. Well coordinated peer teaching in relevant subject combinations.
90h (P); C, PR: EDU 213

EDU 312  Curriculum and Instruction I  2 Credits
Fundamental concepts of curriculum development: objectives, contents, learning opportunities and evaluation. Knowledge and skills in curriculum development. Basic theories of curriculum planning and development: agencies of curriculum development; resources and constraints in curriculum planning and development; curriculum change and evaluation. Analysis of curriculum in terms of relevance and National goals. Relationship between curriculum and instruction: objectives specification; selection of learning experiences; learning materials; methods and media of instruction and evaluation. An overview of curriculum innovation in a subject matter area with particular reference to the Nigerian experience.

**30h (T); C**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDU 313</td>
<td>Method Courses II</td>
<td>2</td>
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<tr>
<td></td>
<td>Examination of a school certificate syllabus in appropriate subjects. Textbooks and curriculum material selection; major curricular innovations and teaching strategies in appropriate subjects. Post-analysis of previous peer teaching experiences; problems and prospects of teaching in the Nigerian school system.</td>
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<td>30h (T); C, PR: EDU213</td>
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<tr>
<td>EDU 314</td>
<td>First Aid, Hygiene and Safety Education</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>EDU 315</td>
<td>Philosophy of Education</td>
<td>2</td>
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<td></td>
<td>30h (T); C</td>
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<tr>
<td>EDU 316</td>
<td>Research Methods and Statistics</td>
<td>3</td>
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<tr>
<td></td>
<td>Definition and types of research; basic steps in research; writing research proposals and reports; methods of citation, references and bibliographic styles. Foundations and applications of statistical inference and probability in education; hypothesis testing and significance tests in educational research; correlation, chi-square, analysis of variance and their uses.</td>
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<td>45h (T); C</td>
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<tr>
<td>EDU 411</td>
<td>Teaching Practice II</td>
<td>2/4</td>
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| 365 |
Practical implementation of teaching and learning strategies in the classroom as applied to the subject area. Placement in post-primary institutions for the purpose of acquiring practical experiences in classroom teaching and management in major and minor teaching subjects.

90/180h (P); C, PR: EDU 311

**EDU 412 Principles and Practice of Instruction** 2 Credits
30h (T); C

**EDU 413 Special Education** 2 Credits
Meaning and nature of special education; history of special education; basic concepts of special education and their categories. Identification and education of people with special needs. Basic use of assistive technology for teaching.
30h (T); C

**EDU 414 Information and Communication Technology in Education** 2 Credits
Application of the principles of information and computer technology to education. Principles of integrating information and communication technology to strengthen standards-based curricula, instruction, and assessment. Integrating computers and various software applications (word processors, databases, spreadsheets and graphics) with instruction to facilitate learning and performance. Open educational resources and other educational software integration in instruction. Use of computer as a tool in educational research statistics.
15h (T), 45h (P); C

**EDU 415 Management in Education** 2 Credits
Abroad overview of the basic principles, theories, goals and techniques of management studies in education. Concept of educational management functions of Educational Management principles, leadership in school administration, Decision-Making in schools, staff motivation, classroom management, suspension in schools, record keeping in schools e.t.c.
30h (T); C

**EDU 416 Guidance and Counselling in Education** 2 Credits
30h (T); C
EDU 417  Developmental Psychology  2 Credits
Human development concepts and processes from conception, with emphasis on physical, intellectual, social, and emotional development. Genetic, endocrinal and environmental pre-pester and post-methyl influences on development, personality and adjustment.
30h (T);C

EDU 499  Research Project  4 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.
180h (P); C
DEPARTMENT OF ADULT AND PRIMARY EDUCATION STUDIES

B.Ed. Adult Education Studies

AES 101  Introduction to Adult Education  2 Credits
30h (T); C

AES 102  Introduction to Foundation of Adult Education  2 Credits
Philosophical and sociological conceptual bases of adult education. Agencies, programmes and trends in the practice of adult education. Social forces bearing upon the need for and content of adult education. Factors influencing adult learning and choices.
30h (T); C

AES 103  Introduction to Community Development  2 Credits
30h (T); C

AES 104  Introduction to Continuing Education  2 Credits
30h (T); C

AES 105  Introduction to Population Education  2 Credits
30h (T); C

AES 106  Introduction to Basic Education  2 Credits
Meaning, purposes and components of basic education. Relationships among the components. Agencies of Basic Education. Basic education and agency building.
AES 107 **Introduction to Life-long Education** 2 Credits

30h (T); C

AES 201 **Philosophy of Adult Education** 2 Credits
Nature and scope of philosophy. Formation of an educational philosophy. Philosophical analysis of concepts in adult education. Intensive study of the ideas of relevant philosophers such as Paulo Freire. Merits and demerits of such ideas.

30h (T); C

AES 202 **Psychology of Adult Education** 2 Credits
Adult developmental stages and the characteristics of adult learner. Cognitive development from young adulthood through old age. Current learning theories and variables of intellectual growth. Self-ego, social and personality changes from young adulthood to senescence. Learning environment and the study skills of adults.

30h (T); C

AES 203 **Sociology of Adult Education** 2 Credits
Sociology and its relevance to adult education. Structure of Nigerian society and its implications for adult education. Adult social behaviour, social relations of adults in the family, work place and educational setting. Equality and democratisation of educational opportunities.

30h (T); C

AES 204 **Historical Development of Adult Education** 2 Credits

30h (T); C

AES 205 **Management of Adult Education** 2 Credits
Functions of management: planning, staffing, organising, controlling, motivation and coordination. Management strategies and application in adult education. Leadership style, student personal and programme sustenance. Equipment, physical plant and crises
management. Organisational and instructional supervision. Training of administrators and supervisors of adult education.

30h (T); C

AES 206 Resources and Services for Adult Education 2 Credits
Varieties of adult education resources: museums, libraries, exhibitions, seminars, excursions, radio, films, television. Their primary and supportive roles. Advantages and limitations of each for adult education and strategies for their effective utilization.
30h (T); C

AES 207 Policy, Programme Design and Implementation 2 Credits
Policy making process. Principles of programme design, implementation and evaluation. Role of the private sector in policy making and programme development. Constraints in the implementation of adult education programmes in Nigeria.
30h (T); C

AES 208 Open and Distance Education 2 Credits
Concept of Open and Distance Education. Goals, theories and practice of Open and Distance Education. Approaches and delivery strategies. Problems of distance learning. Role of Open and Distance Education in personal and societal development. Best practices and implications for its development in Nigeria.
30h (T); C

AES 209 Introduction to Computer Education 2 Credits
Aims, objectives and concepts of computer education. Introduction to computer-assisted instruction. Basic appreciation of selected computer applications. Practical demonstration of the use of related computer applications.
15h (T), 45h (P); C

AES 301 Guidance and Counseling in Adult Education 2 Credits
30h (T); C

AES 302 Principles and Methods of Teaching Adults 2 Credits
AES 303  Curriculum Development and Education in Adult Education  2 credits
30h (T); C

AES 304  Pre-retirement Education  2 Credits
Concepts of retirement and pre-retirement; objectives, scope and programmes of pre-retirement education. Retirement policies and planning for retirement and post active service programmes.
30h (T); C

AES 305  Media and Technology in Adult Education  2 Credits
30h (T); C

AES 306  Economics of Adult Education  2 Credits
Concepts of economics and economics of adult education. Definitions of related concepts such as benefits, cost, age earning profile, economic growth and depreciation. Measures of efficiency and productivity. Issue of demand and supply of labour and skills.
30h (T); C

AES 307  Social Management and Adult Education  2 Credits
30h (T); C

AES 308  Comparative Adult Education  2 Credits
Adult education practice in selected societies with focus on historic, demographic, political and economic factors. Examination of selected ideological issues practical problems and innovations in adult education.
30h (T); C

AES 309  Research Methods and Data Processing in Primary and Adult Education  2 Credits
Importance and place of research in primary and adult education. Types of research. Research samples and sampling techniques. Types of data and variables; procedure and tools for data collection and processing. Guidelines for writing reports.

**AES 310**  
**Test and Measurement in Primary and Adult Education**  
2 Credits  

**AES 401**  
**Adult Education and Development**  
2 Credits  
Nature and concepts of development. Theories of development and policy implications; Contemporary issues in development: poverty, diseases, peace, gender, debt burden, corruption and democracy. Relationship between adult education and development.

**AES 402**  
**Community Education**  
2 Credits  
Concept of community education. Philosophical and sociological bases of community education. Approaches to community development. Assessment of community training needs and development of corresponding learning programme. Methods of community education.

**AES 403**  
**Vocational Training in Adult Education**  
2 Credits  
Concept and nature of vocational training. Factors influencing selection and retention of a workforce and employability of workers. Use of adult and non-formal education techniques in forming developing and supporting income generating skills for rural and urban communities. Case studies and evaluation of experiences.

**AES 404**  
**Problems and Issues in Adult Education**  
2 credits  
Emerging problems and issues in adult education in Nigeria and other countries of the world. Examples: Scope and definition of adult education; measurement of literacy; participation and retention of adults in learning programmes; democratisation of educational opportunities; quality, equality and access and the role of adult education; increasing demand for education and the mounting cost of schooling; etc.

**AES 405**  
**Planning and Financing of Adult Education**  
2 credits
Definition and meaning of planning and financing. Planning techniques and their applications in adult education. Sources of fund for adult education programmes. Generation and conservation of resources through budgeting, budgetary control and planning. Book-keeping and preparation of simple final accounts and financial statements.

30h (T); C

AES 406 Special Education for Adult 2 credits
Meaning and objectives of special learning needs of adult. History and development of special education of adult. Categorisation and characteristics of adults with special needs. Educational programmes for the adults with special needs. Qualities of facilitators of special education. Counselling of parents and relation of special need in youths and adults.
30h (T); E

AES 407 Politics and Adult Education 2 credits
30h (T); C

AES 408 Family Life and Women Education 2 Credits
30h (T); C

AES 409 Practicum 2 Credits
Internship programme for six weeks. Students are required to submit a written report of their experiences at the end of the programme.
90h (P); C
Summary

100 Level

Compulsory Courses: EDU 111(2), 112 (2), AES 101(2), 102(2), 103(2), 104(2), AES 105(2), 106(2), 107(2)
= 18 Credits

Required Courses: GNS 111(2), 112(2)
= 4 Credits

Elective Courses: At least 8 credits in the teaching subject
= 6 Credits

Total = 28 credits

200 Level

Compulsory Courses: EDU 211(2), 212 (2), 213(2), 214(2), AES 201(2), 202(2), 203(2), 204(2), 205(2), 206(2), 207(2), 208(2), 209(2)
= 18 Credits

Required Courses: GNS 211(2), 212(2)
= 4 Credits

Elective Courses: At least 8 Credit in the teaching subject
= 6 Credits

Direct Entry Students: GNS 111(2), 112(2)
= 4 Credits

Total = 36 credits

300 Level

Compulsory Courses: EDU 311(2), 312(2), 313(2), 314(2), 315(2), 316(3) AES 301(2), 302(2), 303(2), 304(2), 305(2), 306(2), 307(2), 308(2), 309(2), AES 401(2), 402(2), 403(2), 404(2), 405(2), 407(2), 408(2), AES 409(2)
= 29 Credits

Required Courses: GNS 311(2), GSE 301(3)
= 5 Credits

Elective Courses: At least 8 Credit in the teaching subject
= 6 Credits

Total = 40 credits

400 Level

Compulsory Courses: EDU 411(4), 412(2),413 (2), 414(2), 415(2), 416(2), 499(4)
AES 401(2), 402(2), 403(2), 404(2), 405(2), 407(2), 408(2), AES 409(2),
= 34 Credits

Total = 34 Credits

Graduation Requirements:
\textbf{UTME} = 114  \\
\textbf{DE} = 138
B.Ed. Primary Education

PES 101  Introduction to History of Nursery/Primary Education  2 Credits
History and development of formalized early childhood education in the Western world and Nigeria. Development and relevance of different epochs in the Western world and Nigeria to the education of children at the Nursery and Primary levels.
30h (T); C

PES 102  Introduction to the Sociological Foundations of Nursery/Primary Education  2 Credits
30h (T); C

PES 104  Introduction to Childhood Education Teaching Methods  2 Credits
Meaning, history, basic principles and methods of Nursery/Primary Education. Problems of early childhood education (ECE) in Nigeria and methods of helping children learn effectively despite these problems. Learners’ needs, diagnosis and remediation. Classroom management. Multicultural setting and background of learners as factors affecting ECE curriculum.
30h (T); C

PES 201  Philosophy of Early Childhood Education  2 Credits
Survey of the philosophy of early childhood education in Nigeria. Analysis of the national policy on nursery and primary education. Analysis of current ideas on education at nursery and primary school levels. Childhood and classification of relevant concepts.
30h (T); C

PES 202  Introduction to the Nursery Education Curriculum  2 Credits
Overview of nursery education curriculum in Nigeria. Analysis of different approaches to curriculum planning vis-à-vis changing concepts of nursery education.
30h (T); C

PES 203  Introduction to the Primary Education Curriculum  2 Credits
Analysis of primary school curriculum. Examination of issues in implementing primary school curriculum.
30h (T); C

PES 204  Childhood Education  2 Credits
Learning styles in early childhood education and principles of teaching nursery/primary school children. Theories of teaching and the organisation of learning in Nursery/Primary education. Analysis of methods of teaching specific primary school subjects.

30h (T); C

**PES 205**  
**Development of Instructional Resources for Nursery/Primary Education**  
2 Credits

Uses of instructional media for teaching and learning in Nursery/Primary education. Methods of design and development of Instructional materials for classroom application. Exposure to various media equipment.

30h (T); C

**PES 206**  
**Mother Tongue Education**  
2 Credits

Alphabets, vowels and consonants, morphological and syntactic process. Grammatical categories and semantics for effective use of mother-tongue for communication.

30h (T); C

**PES 301**  
**Issues in Nursery/Primary Education in Nigeria**  
2 Credits

Issues affecting Nursery/Primary education in Nigeria, including the family, paid employment, gender and urbanisation.

30h (T); C

**PES 302**  
**Youth Leadership**  
2 Credits

Leadership styles and authority relationships. Roles of young leaders in national integration and development. Group study of dynamics as related to some youth organisations in Nigeria including concepts of role models and ethics.

30h (T); C

**PES 303**  
**Evaluation of Achievement in Nursery/Primary Education**  
2 Credits

Development of instrUMENTs for measuring achievement of Nursery/primary school pupils. Study of alternative methods of test administration, interpretation and reporting.

30h (T); C

**PES 304**  
**Creative Arts in Primary Education**  
2 Credits


30h (T); C

**PES 305**  
**Elementary Mathematics**  
2 Credits
Nursery/Primary school curriculum in Mathematics. Aims, objectives and methods of teaching specific components of the curriculum.
30h (T); C

PES 306 Elementary Language Arts Curriculum and Methods 2 Credits
Nursery/Primary school curriculum in English Language. Aims, objectives and methods of teaching specific components of the English language curriculum. Language skills and basic approaches to the teaching of reading in nursery/primary schools.
30h (T); C

PES 308 Elementary Social Sciences Curriculum and Methods 2 Credits
Nursery/primary school Curriculum in Social Sciences. Aims, objectives and methods of teaching different components of the curriculum.
30h (T); C

PES 309 Elementary Science Curriculum and Methods 2 Credits
Nursery/Primary school curriculum in Elementary Science. Aims, objectives and methods of teaching components of the curriculum.
30h (T); C

PES 401 Comparative Studies of Nursery/Primary Education Projects 2 Credits
Comparison of pre-primary and primary education projects in Nigeria with those of advanced and developing societies including USA, UK, Australia, China, Korea, Republic of South Africa, Brazil.
30 h (T); C

PES 403 Practicum in Nursery/Primary Education 2 Credits
Internship programme for six weeks. Students are required to submit a written report of their experiences at the end of the programme.
30h (T); C

PES 404 Assessment of Non-cognitive Variables 2 Credits
Methods of developing instrUMENTs for use in measuring non-cognitive variables among Nursery/Primary school children. Observation techniques, including interview and checklist.
30h (T); C

PES 405 Nursery/Primary School Organisation and Administration 2 Credits
Concepts and issues in nursery/primary school organisation and administration. Duties of the school administrator: liaising with statutory bodies, school-community relations, community participation, education laws, leadership, finance, record keeping and related problems.
30h (T); C

PES 407 Teaching Reading in the Elementary School 2 Credits
Basic approaches in teaching reading in elementary schools. Methods of assessing students’ needs in reading and using developmental schemes.
30h (T); E
Summary
100 Level
Compulsory Courses: EDU 111(2), 112 (2), PES 101(2), 102(2), 104 (2), 114(2) = 12 Credits
Required Courses: GNS 111(2), 112(2), CED 101(2) = 6 Credits
Electives Courses: At least 12 Credits from a teaching subject = 12 Credits
Total = 30 Credits

200 Level
Compulsory Courses: EDU 211(2), 212 (2), 213(2), 214(2), 215(2), 216(2) PES 201(2), 202(2), 203(2), 204 (2), 205 (2), 206(2) Total = 24 Credits
Required Courses: GNS 211(2), 212 (2) Total = 4 Credits
Electives Courses: At least 10 Credits from a teaching subject = 10 Credits
Total = 38 Credits
For Direct Entry Students: GNS 111(2), 112(2) = 4 Credits

300 Level
Compulsory Courses: EDU 311(2), 312(2), 313(2), 314(2), 315(2), 316(3) PES 301(2), 302(2), 303(2), 304(2), 305(2), 306(2), 308(2), 310(2), 311(2) = 31 Credits
Required Courses: GNS 311(2), GSE 301(3), PES 309(2) = 7 Credits
Electives Courses: At least 8 Credits from a teaching subject = 8 Credits
Total =46 Credits

400 Level
Compulsory Courses: EDU411(2), 412(2),413(2), 414(2), 415(2), 416(2), 499(4) PES 402 (2), 406(2),403 (2), 404(2), Total=24 Credits
Required Courses: PES 421(2), 432 (2), 433(2), 452(2) = 8 Credits
Electives Courses: At least 10 Credits from a teaching subject = 10 Credits
Graduation Requirements:

UTME = 120 Credits
Direct Entry = 90 Credits

Total = 42 Credits
DEPARTMENT OF ARTS EDUCATION
Course Description

B.A.Ed. Arabic Education

AED 311  Primary and Secondary Education in Nigeria  2 Credits
Overview of the contemporary primary and secondary educational institutions in Nigeria. Aims, objectives, structures, curricula, methods and problems of primary and secondary education in Nigeria.
30h(T); E

AED 408  Comparative Education  2 Credits
Meaning and scope of comparative education. Concepts of educational system. Comparison of selected educational system. Factors affecting the character of educational system, drawing comparisons from Europe, Asia, Africa and America.
30h (T); C

AED 411  Post-secondary and Higher Education in Nigeria  2 Credits
Contemporary forms and structures of post-secondary and higher education in Nigeria. Aims, objectives, curricular, organization management, methods and problems of post-secondary and higher education in Nigeria. Roles of science, technology and the humanities in national development.
30h (T); E
## Summary

### 100 Level

**Compulsory Courses:**
EDU 111(2), 112 (2)
= 4 Credits

**Required Courses:**
GNS 111(2), 112(2), ARA 121(3), 122(3), 123(3), 124(3), 125(2), 126(2)
= 20 Credits

**Electives Courses:**
At least 6 Credits from: RIS 121(2), 122(2), 123(1), 125(3), 126(2), 127(2)
= 6 Credits

**Total = 30 Credits**

### 200 Level

**Compulsory Courses:**
EDU 211(2), 212 (2), 213 (2), 214 (2), 215(2), 216 (2)
= 12 Credits

**Required Courses:**
GNS 211(2), 212 (2), ARA 222 (2), 223 (2), 224 (2), 226 (2) 228(2), 229 (2)
= 16 Credits

**Electives Courses:**
At least 6 Credits from: RIS 224(1), 225(2), 227(2), 228(2), 229(2)
= 6 Credits

**Direct Entry Students:**
GNS 111(2), 112(2)
= 4 Credits

**Total = 34 Credits**

### 300 Level

**Compulsory courses:**
EDU 311(2), 312(2), 313(2), 314,(2), 315 (2), 316 (3)
= 13 Credits

**Required courses:**
GNS 311(2), ARA 321(2), 325(2), 326(3), 327(2), 328(3), 332(2), 338(2), GSE 301 (3)
= 21 Credits

**Elective courses:**
At least 6 Credits from: RIS 332(2), 326(2), 332(2), AED 311(2)
=6 Credits

**Total = 40 Credits**

### 400 Level

**Compulsory Courses:**
EDU 411 (4), 412 (2), 413 (2), 414 (2)415 (2), 416 (2), 417 (2) 499 (4)
= 20 Credits

**Required Courses:**
ARA 423 (2)424(2), 427(2), 430(2), 434(2), 434(2), 435(3), 436(2),
Graduation Requirement:

**UTME** = 143
**DE** = 117

---

Find details of other courses in the Department of Arabic, in the Faculty of Arts

B.A. (Ed.) Christian Studies

Summary

100 Level

**Compulsory Courses:** EDU 111(2), 112 (2) = 4 Credits

**Required Courses:** GNS 111(2), 112(2), RCS 121(3), 122(2), 123(2), 124(2), 125(2), 126(2) = 17 Credits

**Electives Courses:** At least 6 Credits from the following: RIS 121(2), RCR 121(2), 122(2), 123(2), 124(2) = 6 Credits

**Total** = 27 Credits

---

200 Level

**Compulsory Courses:** EDU 211(2), 212 (2), 213 (2), 214 (2), 215(2), 216 (2) = 12 Credits
Required Courses: 
GNS 211(2), 212 (2), RCS 223 (2), 224 (2), 226 (1), 227 (2)228(2),
(3) = 18 Credits

Electives Courses: At least 6 Credits from the following: RCR 223(3), 224(1), 229(2),
221 (2), 225(2), 226(2) = 6 Credits

Total = 36 Credits

Direct Entry Students: = 4 Credits

300 Level
Compulsory Courses: EDU 311(2), 312(2), 313(2), 314,(2), 315 (2), 316 (3) = 13 Credits
Required Courses: GNS 311(2), RCS 321(2), 322(2), 326(2), 325(3), 328(3), 339(1)
GSE 301(3) = 17 Credits
Electives Courses: At least 6 Credits from: RCR 321(3),323(2), 324(1), 325(2), 328 (2),
AED 311(2) = 6 Credits
Total =37 Credits

400 Level
Compulsory Courses: EDU 411 (4), 412 (2), 413 (2), 414 (2) 415 (2), 416 (2), 417 (2) 499 (4)
=20 Credits
Required Courses: RCS 432 (2) 423(3), 425 (2), 424(3), 434(2),
=11 Credits
Total = 31 Credits

Graduation Requirements:
UTME = 122
DE = 99

Find details of other courses in the Department of Religions, in the Faculty of Arts
**B.A. (Ed.) ENGLISH**

### 100 Level

**Compulsory Courses:**
- EDU 111(2), 112 (2)

**Required Courses:**
- GNS 111(2), 112(2), ENG101 (2), 102(2), 103(2), 105(2), 106(3)
- 114(2), 115 (3), 116(3), 117(3)

**Elective Courses:**
- At least 6 credits from: ENG 118(3), 119(3)

**Total** = 36 Credits

### 200 Level

**Compulsory Courses:**
- EDU 211(2), 212 (2), 213 (2), 214 (2), 215(2), 216 (2)

**Required Courses:**
- GNS 211(2), 212 (2), ENG 203 (2), 204 (2), 216 (2), 218 (2)219(2),
- 220 (2), 223 (2), 226 (2)

**Electives Courses:**
- At least 6 Credits from: ENG 205(3), 206(3), 209(2), 222(2)

**Total** = 38 Credits

**Direct Entry** = 4 Credits

### 300 Level

**Compulsory Courses:**
- EDU 311(2), 312(2), 313(2), 314,(2), 315 (2), 316 (3)

**Required Courses:**

**Electives Courses:**
- AED 311(2)

**Total** =40 Credits

### 400 Level

**Compulsory Courses:**
- EDU 411 (4), 412 (2), 413 (2), 414 (2)415 (2), 416 (2), 417 (2) 499 (4)

**Required Courses:**
- ENG 421(3), 425(2), 424(3), 426(3),

**Total** =40 Credits
Electives Courses: At least 2 Credits from AED 411(2), AED 408 = 2 Credits
Total = 36 Credits

Graduation Requirements
UTME = 144
DE = 115

Find details of other courses in the Department of English, in the Faculty of Arts

B.A. (Ed.) FRENCH
100 Level
Compulsory Courses: EDU 111(2), 112(2) = 4 Credits
Required Courses: GNS 111(2), 112(2), FRE 117(2), 115(2), 119(2), 127(2), 129(2), 116(2) = 22 Credits
Electives Courses: LIN 101(2), 102(2) = 4 Credits
Total = 32 Credits

200 Level
Compulsory Courses: EDU 211(2), 212(2), 213(2), 214(2), 215(2), 216(2) = 12 Credits
Required Courses: GNS 211(2), 212(2), FRE 229(3), 231(3), 234(2), 239(3), 236(2), 230(3), 240 = 23 Credits
Electives Courses: At least 3 Credits LIN 201(3), 202(2), 204(3) = 3 Credits
Required Courses: GNS 211(2), 212(2); = 4 Credits

Direct Entry Students: GNS 111(2), 112(2) = 4 Credits
= 38/42 Credits

300 Level
Compulsory Courses: EDU 311(2), 312(2), 313(2), 314(2), 315 (2), 316 (3) = 13 Credits

Required Courses: GNS 311(2), FRE 307(2), 309(2), 329(2), 333(2), 308(2), 332(2), 331(2), (3)
= 19 Credits

Electives Courses: At least 3 Credits from: LIN 301(3), 302(3), 313(3), AED 311(2)
= 3 Credits
Total = 35 Credits

400 Level
Compulsory Courses: EDU 411 (4), 412 (2), 413 (2), 414 (2), 415 (2), 416 (2), 417 (2) 499 (4)
= 20 Credits

Required Courses: FRE 429 (2), 433(2), 431(2), 437(2), 430(2), 432(2), 436(2) 438(2)
= 16 Credits

Electives Courses: AED 408 (2), 411(2) = 4 Credits
Total = 38 Credits
B.A. (Ed.) HISTORY

100 Level

Compulsory Courses: EDU 111(2), 112 (2) = 4 Credits

Required Courses: GNS 111(2), 112(2), HIS 101(3), 122(3), 123(2),125(3),127(3), 128(3) = 21 Credits

Electives Courses: At least 6 Credits from RCR 123(3), 121(2), RCS 123 (1), 122(2), 122 (2) = 6 Credits

Total = 31 Credits

200 Level

Compulsory Courses: EDU 211(2), 212 (2), 213 (2), 214 (2), 215(2), 216 (2) = 12 Credits

Required Courses: GNS 211(2), 212 (2), HIS 201 (3), 222 (3), 205 (3), 210 (3), 204 (3), 206 (3) = 22 Credits

Electives Courses: RCR 224(2), RCS 226(1) or RIS 222 (3) = 3 Credits

Required Courses: GNS 211(2), 212(2); = 4 Credits

Direct Entry Student: GNS 111(2), 112(2) = 4 Credits

= 37/41 Credits

300 Level

Compulsory Courses: EDU 311(2), 312(2), 313(2), 314(2), 315 (2), 316 (3) = 13 Credits

Required Courses: GNS 311(2), HIS 301(3), 302(3), 304(3), 306(3), 309(3), 312 (3), G S E 3 0 1 (3), = 20 Credits

Electives Courses: RCR 305(2), 303 (2) = 4 Credits

Total =37 Credits
400 Level

**Compulsory Courses:**
EDU 411 (4), 412 (2), 413 (2), 414 (2), 415 (2), 416 (2), 417 (2), 499 (4)

= 20 Credits

**Required Courses:**
HIS 401 (3) 404 (3), 403 (3), 413 (2)

= 11 Credits

**Electives Courses:**
AED 408 (2), 411 (2)

Total = 35 Credits
B.A. (Ed.) ISLAMIC STUDIES

100 Level

Compulsory Courses: EDU 111(2), 112 (2) = 4 Credits

Required Courses: GNS 111(2), 112(2), RIS 121(2), 122(2), 123(2), 124(1), 125(3), 127(2) = 16 Credits

Electives Courses: ARA 141(2), 143 (3), 144 (3), 145(2), RCR 124(2), RCS 123(2) = 14 Credits
Total = 34 Credits

200 Level

Compulsory Courses: EDU 211(2), 212 (2), 213 (2), 214 (2), 215(2), 216 (2) = 12 Credits

Required Courses: GNS 211(2), 212 (2), RIS 222 (3), 223 (2), 225(2), 227 (2), 229 (2), 230(2), 232 (2) = 21 Credits

Electives Courses: At least 6 Credits from:
   RCS 226 (1), ARA 241(2), 242(3), 243 (3) = 6 Credits

Required Courses: GNS 211(2), 212(2); = 4 Credits

Direct Entry Students: GNS 111(2), 112(2) = 4 Credits
Total = 39/43 Credits

300 Level

Compulsory Courses: EDU 311(2), 312(2), 313(2), 314(2), 315 (2), 316 (3) = 13 Credits

Required Courses: GNS 311(2), RIS 321(2), 322 (2), 324(3), 326(2), 331 (2), 332(3), 327 (3) = 24 Credits

Electives Courses: At least 2 Credits from:
   RCR 304(1), RCS 329(1), AED 311(2), ARA 321(2) = 2 Credits
Total = 39 Credits

400 Level
Compulsory Courses:  
EDU 411 (4), 412 (2), 413 (2), 414 (2), 415 (2), 416 (2), 417 (2) 499 (4)  
= 20 Credits

Required Courses:  
RIS 428 (2), 431(2), 432 (2), 434(2), 421(2)  
=10 Credits

Electives Courses:  
At least 6 Credits from:  
RCR 401 (3), 404 (2), AED 411(2), RIS 425 (2), 427(1), 437(2),  
RCS 432 (2)  
= 6 Credits

Total = 36 Credits
B.A. (Ed.) YORUBA
100 Level

Compulsory Courses: EDU 111(2), 112 (2) = 4 Credits

Required Courses: GNS 111(2), 112(2), LIY 101(3), 102(3), 103(3), 104 (3), 107(2)
= 18 Credits

Electives Courses: LIN 101(3), 102 (2), 105(3), 107(3)
= 11 Credits

Total = 33 Credits

200 Level

Compulsory Courses: EDU 211(2), 212 (2), 213 (2), 214 (2), 215(2), 216 (2)
= 12 Credits

Required Courses: GNS 211(2), 212 (2), LIY 201 (2), 202 (3), 203 (3), 205 (3), 207(3), 206 (3), 207(3)
= 24 Credits

Electives Courses: At least 3 Credits from the following:
LIN 203(3), 204(3), 206(3), 207 (2), 201(3)
= 3 Credits

Direct Entry Students: GNS 111(2), 112(2)
= 4 Credits

Total = 39 Credits

300 Level

Compulsory Courses: EDU 311(2), 312(2), 313(2), 314(2), 315 (2), 316 (3)
= 13 Credits

Required Courses: GNS 311(2), GSE 301(3) LIY 301(3), 302(3), 303(3), 305(3), 307(3)
= 20 Credits

Electives Courses: At least 6 Credits from the following LIY 308(3), 321(3), LIN 301(1), 302(2), 308 (3), 313 (3)
AED 311(2)
= 6 Credits

Total = 39 Credits

400 Level

Compulsory Courses: EDU 411 (4), 412 (2), 413 (2), 414 (2), 415 (2), 416 (2), 417 (2), 499 (4)
= 20 Credits
Required Courses: LIY 403 (3) 407(3), 401 (3),405 (3), 406(3),408 (3) = 18 Credits

Electives Courses: AED 411(2) = 2 Credits
Total = 40 Credits

Graduation Requirements
UTME = 151
DE = 142

NOTE: Detailed course description relating to B.A. (Ed.) Arabic, Christian Studies, Islamic Studies, English, French, and Yoruba may be found in the appropriate sections of the Undergraduate Academic Programme in the Faculty of Arts,
DEPARTMENTAL OF COUNSELLOR EDUCATION
Course Description

B. Ed. Counsellor Education

CED 101 Historical Development of Counselling 2 Credits
Development of Counselling as a field of human interaction and course of study. Origins of counselling in the USA and Nigeria; Psychological basis of counselling.
30h (T); C

CED 102 Introduction to Guidance and Counselling 2 Credits
30h (T); C

CED 103 Basic Principles of Counselling 2 Credits
Principles of counselling, stages of counselling and interaction with clients, parents and school administrators. Importance of counselling. Typical clients’ problems in Nigeria and other parts of the world.
30h (T); C

CED 104 Biological Psychology 2 Credits
Biological basis of human behaviour. The role of the central nervous system and hormones in human behaviour. Effect of other biological systems on behaviour. Relevance of biology and psychology to counselling. Counselling needs of Students: Biological and environmental problems. Counselling as means of equipping clients with coping skills.
30h (T); R

CED 105 Fundamentals of Counselling 2 Credits
30h (T); C

CED 106 Teenage Counselling 2 Credits
Characteristics of teenagers, nature and forms of the needs and problems of teenagers. Various counselling psychological approaches involved in resolving teenage problems.
30h (T); R

CED 107 Psychology of Deviant Behaviour 2 Credits
30h (T); R

CED 108  
Student Personnel Work and Services 2 Credits
Current trends and objectives of student services in higher educational institutions. Personal concerns of students of higher institutions and the organizational patterns of student services. Stress factors among higher education students.
30h (T); R

CED 201  
Counselling Techniques and Practice 2 Credits
Techniques of effective counselling: goal setting, directive and non-directive approaches. Selection of strategies: interviewing, keeping of records and evaluation of results.
15h (T), 45h (P); C

CED 202  
Adolescent Development and Counselling 2 Credits
Meaning and nature of early and late adolescence. Developmental tasks at the various age levels. Application of counselling principles to social problems of age groups. Concerns of adolescents. Ways of handling adolescents’ problems.
15h (T), 45h (P); C

CED 203  
Family Life Counselling 2 Credits
Meaning and types of family. Family as a basic unit of society. Elements of family life: sex, marriage and counselling. Obstacles to effective family counselling.
30h (T); C

CED 204  
Introduction to Practicum in Counselling 2 Credits
Visits to and interviews with personnel in various counselling settings: correctional homes (prisons), social welfare offices, mental health institutions, marriage registries, rehabilitation centres, elementary and secondary schools. Exploration and demonstration of skills utilised in these settings for effective counselling and interviewing.
15h (T), 45h (P); C

CED 205  
Counselling for Special Needs Clients/Population 2 Credits
Identification of special needs clients in Nigeria. Types of disabilities; problems and needs of handicapped and exceptional children. Place of counselling in fostering growth and development of students in regular and special schools.
30h (T); R
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CED 206</td>
<td>Role of Religion in Counselling</td>
<td>2</td>
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<tr>
<td></td>
<td>Religious beliefs and sociology of religion as applied to the three major religions in Nigeria. Attribution theory and traditional belief systems in Nigeria. Moral and religious, development of adolescents. Role of religion in counselling.</td>
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<tr>
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<td>30h (T); E</td>
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<tr>
<td>CED 301</td>
<td>Theories of Career Counselling</td>
<td>2</td>
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<td></td>
<td>Theories of career counselling; trait-and-factor, developmental and psychoanalytic theories; careers and the work-place. Behavioural, environmental, religious and other related factors in career development.</td>
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<td>30h (T); C</td>
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<tr>
<td>CED 302</td>
<td>Group Procedures and Group Dynamics in Counselling</td>
<td>2</td>
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<tr>
<td></td>
<td>Principles and techniques of group counselling: group procedures and dynamics. Leadership and followership in groups; individual versus group counselling</td>
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<td>30h (T); C</td>
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<tr>
<td>CED 303</td>
<td>Rehabilitation Counselling</td>
<td>2</td>
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<td>Psychological and vocational rehabilitation of handicapped and disadvantage people, diagnostic methods and techniques for categorizing the handicapped and for identifying the type of counselling and vocational training needed.</td>
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<td>30h (T); E</td>
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<tr>
<td>CED 304</td>
<td>Practicum in Counselling</td>
<td>2</td>
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<tr>
<td></td>
<td>Observation of counselling sessions. Requirements for effective counselling; Case study procedures and analysis of tape-recorded interviews. Record keeping, role playing and supervised counselling experience. Application of principles and techniques of counselling in clinical settings.</td>
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<tr>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>CED 305</td>
<td>Communication in Counselling</td>
<td>2</td>
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<tr>
<td></td>
<td>Communication techniques and processes in counselling. Verbal and non-verbal communication as they relate to counselling. Ingredients of effective communication. Importance of communication in Counselling.</td>
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<td>30h (T); C</td>
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<tr>
<td>CED 306</td>
<td>Quantitative Methods in Counselling</td>
<td>2</td>
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<tr>
<td></td>
<td>Analysis and appraisal of statistical data in educational counselling. Evaluation of statistical packages applicable to interpretation of counselling data. Relevance of computer and other Information Technology (IT) devices to counselling.</td>
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<tr>
<td></td>
<td>30h (T); R</td>
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</tbody>
</table>
CED 307  Programme Development and Evaluation in Counselling  2 Credits
30h (T); R

CED 308  Sex, Marital and Family Counselling  2 Credits
Pre-marital and post-marital interactions. Influence of parents on children and vice versa. Strategies for the psychological, emotional and personality disturbance originating from childhood as a result of dysfunctional patterns of parent-parent and parent-child interaction. Family and marital counselling techniques and strategies.
30h (T); E

CED 309  Managing Aged and Disabled Persons  2 Credits
30h (T); E

CED 401  Counselling Theories and Models  2 Credits
Theoretical bases and approaches to counselling; to include Psychoanalytic, Behavioural, Existential, Phenomenological and Eclectic approaches.
30h (T); C

CED 402  Principles and Practice of Test Construction and Development  2 Credits
General principles of test construction; psychometric properties; item generation, selection and analysis; test-score analysis and interpretation; Uses of tests in counselling. Administration of group and individual tests.
15h (T), 45h (P); C

CED 403  Theories of Personality Development and Adjustment  2 Credits
Personality and adjustment theories and their integration for counselling purposes. Cultural influences on personality development and adjustment processes.
30h (T); C

CED 404  Practicum in Counselling  2 Credits
Group and individual counselling procedures and applications. Supervised experiences in group and one-to-one counselling in educational settings.
90h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CED 405</td>
<td>Organization of Guidance and Counselling Services in Schools</td>
<td>2</td>
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<tr>
<td></td>
<td>Concepts of organization and administration. Basic requirements for</td>
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<tr>
<td></td>
<td>organization of counselling services. Examination of counselling</td>
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<td>programmes and models; selection criteria and supervision; use of</td>
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<td>paraprofessionals and other support personnel.</td>
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<td><strong>15h (T), 45h (P); R</strong></td>
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<tr>
<td>CED 406</td>
<td>Behaviour Modification</td>
<td>2</td>
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<td></td>
<td>Counselling and teaching as processes of behavioural change. Application</td>
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<td>and evaluation of counselling and teaching techniques to facilitate and</td>
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<td>modify behaviour; role of teachers, parents and significant others as</td>
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<td>behaviour change agents; shaping behaviour; principles of successive</td>
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<td></td>
<td>approximation and schedules of reinforcement.</td>
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<td><strong>30h (T); C</strong></td>
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<tr>
<td>CED 407</td>
<td>Practice in Continuous Assessment and Keeping of Cumulative Records</td>
<td>2</td>
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<tr>
<td></td>
<td>Continuous Assessment as diagnostic and prescriptive tools in teaching</td>
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<tr>
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<td>and learning. Cumulative record-keeping: continuous assessment and</td>
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<td></td>
<td>various test scores. Use of test scores for inter and intra-school</td>
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<td>decision making especially at the end of junior and senior secondary</td>
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<td>schools.</td>
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<td></td>
<td><strong>15h (T), 45h (P); C</strong></td>
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<tr>
<td>CED 408</td>
<td>Occupational Information, Job Analysis And Job Evaluation</td>
<td>2</td>
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<tr>
<td></td>
<td>Nature of jobs and their demands on workers. Methods of determining</td>
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<td></td>
<td>relative importance of jobs. Sources of occupational information; types,</td>
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<td></td>
<td>classification, choice and need for career and vocational counselling in</td>
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<td></td>
<td>the work place. Counselling in the work place.</td>
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<td></td>
<td><strong>30h (T); R</strong></td>
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<tr>
<td>CED 409</td>
<td>Abnormal Psychology</td>
<td>2</td>
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<td></td>
<td>Nature, causes, diagnosis, prevention and management of mal-adjustment</td>
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<td>and related behaviour disorders. Influence of culture and environment on</td>
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<td></td>
<td>mal-adjustment and behaviour disorders.</td>
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<td></td>
<td><strong>30h (T); E</strong></td>
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<tr>
<td>CED 410</td>
<td>Educating Handicapped and Disadvantaged Children</td>
<td>2</td>
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<td></td>
<td>Special education and characteristics of exceptional children. Psychological problems: mental retardation, giftedness, emotional disturbance and socio-economic problems as they affect the education of special children.</td>
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<tr>
<td></td>
<td><strong>15h (T), 45h (P); E</strong></td>
<td></td>
</tr>
<tr>
<td>CED 411</td>
<td>Human Behaviours in Organisations</td>
<td>2</td>
</tr>
</tbody>
</table>
Assessing human behaviours in organizations. The organizational environment: structure, design, technology and individuals in the organization, formal organizations. Motivation patterns, leadership and organizational development, Communication and reward systems in organisations.

30h (T); R

CED 412  Counselling in Out-of-School Settings  2 Credits
Counselling people of all ages and diverse needs. Developing positive relationships with clients; provision of support and guidance to enhance clients’ development. Counselling out-of-school clients; identification and management of their problems. Counselling in prisons, rehabilitation centres, hospitals, displacement centres etc.

30h (T); E

CED 413  Conflict and Conflict Resolution in Work Places  2 Credits
Nature of conflict and its various forms. Sources of conflicts and conflict resolution in work places, effects of conflicts between the employer and employees. Case study of conflicts work places in Nigerian.

30h (T); E

CED 414  Introduction to Culture and Psychopathology  2 Credits

30h (T); E
Summary
100 Level

Compulsory Courses: EDU 111(2), 112(2), CED 101(2), 102(2), 103(2) and 105(2) = 12 Credits

Required Courses: CED 104(2), 106(2), 107(2), 108(2); GNS 111(2), 112(2) = 12 Credits

Total = 30 Credits

Elective Courses: At least 6 credits from the following:
- ACC 101(3), 102(3), 104(3)
- PLB 101(3), 108(3)
- CHM 101(3), 115(2), 132(2), 112(2), 131(1)
- ECN 101(3), 102(3), 103(2)
- ENG 101(2), 103(2), 106(3)
- GPE 122(3), 131(3), 193(3)
- HIS 101(3), 104(3), 123(3)
- LIY 101(3), 102(3) 105(3)
- MAT 112(3), 113(3), 114(3)
- PHY 114(2), 124(3), 142(2), 152(3)
- RAL 122(3), 123(3)
- RCR 121(3), 124(3), 127(2)
- RCS 121(3), 122(2), 125(2)
- RIS 121(2), 122(2), 123(2), 127(2)

200 Level

Compulsory Courses: EDU 211(2), 212(2), 213(2) 214(2) 215(2) 216(2); CED 201(2), 202(2) 203(2), 204(2) = 20 Credits
Required Courses: CED 205(2), GNS 211(2), 212(2) = 6 Credits

Direct Entry Student: GNS 111 (2) and GNS 112 (2)

Electives Courses: At least 8 credits from minor courses:
- ACC 201(3), 204(3), 205(3) 224(3)
- PLB 201(3), 202(3), 203(3), 204(3)
- CHM 212(3), 213(3), 235(3), 236(3)
- ECN 201(2), 202(2), 203(2), 204(2) 205(2)
- ENG 205(3), 206(3), 207(3), 209(3)
- GPY 221(2), 231(3), 232(3), 296(3)
- HIS 201(3), 202(3), 210(3), 212(3)
- LIY 201(2), 204(3), 205(2), 209(3)
- PHY 215(2), 224(2), 243(2), 253(2), 291(2), 293(3)
- RCR 204(1), 205(1), 224(2)
- RCS 221(3), 222(2), 224(2), 226(1) 229(2)
- RIS 224(1), 225(2), 227(2), 228(2), 229(1)
- CED 206 (2)

Total = 34 Credits
Total = 38 Credits

300 Level

Compulsory Courses: EDU 311(2), 312(2), 313(2), 314(2), 315(2), 316(3); CED 301(2), 302(2) 304(2), 305(2) = 21 Credits

Required Courses: CED 306(2), 307(2); GNS 311(2), GSE 301(3) = 9 Credits

Electives Courses: At least 6 credits from minor courses:
ACC 301(3), 302(3), 305(3), 308(3)
CHM 324(3), 329(2) 331(3)
ECN 301(2), 302(2), 303(2), 304(2)
ENG 304(2), 327(2), 329(2), 334(2)
FRE 300(3), 316(2), 324(2)
GPE 322(2), 326(2), 331(3) 335(2), 342(3)
HIS 321(3), 332(3), 328(3), 327(3)
LIY 303(3), 306(3)
MAT 306(3), 311(3), 324(3), 327(3)
PHY 314(3), 331(3), 332(3), 357(2)
PLB 307(3), 308(3), ZLY 308(3)
RCR 324(1), RCS 321(2), 328(2), 329(1), 332(2)
RIS 324(3), 331(3), 332(2), 327(2)
CED 303(2) 308(2), 309(2)  

Total = 36 Credits

400 Level

Compulsory Courses: EDU 411(2), 412(2), 413(2), 414(2), 415(2), 416(2), 417(2) 499(4)  
CED 401(2), 402(2), 403(2), 404(2), 406(2) and 407(2),  

= 30 Credits

Elective Courses: CED 409(2), 410(2), 412(2), 413(2) and 414(2)  

= 10 Credits

Required Courses: CED 405(2), 408(2), 411(2)  

= 6 Credits

Total = 46 Credits

Graduation Requirement: UTME = 146

DE = 120
Course Description

B.Sc. Ed. (Business Education) with the following specializations:

(i) B.Sc. Ed. Business Education (Office Technology and Management)

(ii) B.Sc. Ed. Business Education (Marketing)

(iii) B.Sc. Ed. Business Education (Accounting)

**BED 101**  
*Introduction to vocational and Technical education*  
2 Credits  
Definition, scope, philosophy and objectives of Vocational and Technical Education. Funding of VTE programmes. Development of Vocational and Technical Education in Nigeria. The role of Vocational Technical Education in National Development. Youth leadership development. Public speaking, time Management, leadership styles, organizational skills, group Dynamics, professional meetings. etc. Characteristics of Vocational and Technical Education. Problems and prospects of Vocational and Technical Education. Place of Vocational and Technical Education in Universal Basic Education.  
30h (T); C

**BED 102**  
*Commerce I*  
2 Credits  
30h (T); C

**BED 103**  
*Introduction to Business Mathematics*  
2 Credits  
Fractions, decimals, approximations. Progressions; Geometric and Arithmetic. Simultaneous equations (by graph, elimination, and Cramer’s Rule), Algebraic expressions (fractions and graphs).  
30 (T); C

**EMA 103**  
*Basic Theory of Management*  
2 Credits  
Overview of the historical development of management theories. Classical school of management. Behavioural school of management. Management functions at various managerial levels and managerial skills.
<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BED 104 Office Practice 1</strong></td>
<td>2</td>
</tr>
<tr>
<td>Structure of office. Postal service. Communications in the office e.g. office Memo, mail handling.</td>
<td></td>
</tr>
<tr>
<td><strong>BED 105 Basic Accounting Concepts</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>EMA 105 Record Keeping in Schools</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>BED 106 Principles of Economics</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>EMA 106 Introduction to Human Resources Management</strong></td>
<td>2</td>
</tr>
<tr>
<td>Fundamental principles and practices of recruiting and selecting, placing and inducting, developing, appraising, rewarding performance and utilizing human resources. Appropriate employment practices and implications for education managers.</td>
<td></td>
</tr>
<tr>
<td><strong>BED 107 Introduction to Computer Keyboarding and Words Processing</strong></td>
<td>2</td>
</tr>
<tr>
<td>Meaning of typewriting. Types of typewriters and computers. Sitting, finger placing, insertion and removal of paper, margin setting, erasing, placing of fingers and typing techniques. Care/handling of typewriters. Sizes of paper.</td>
<td></td>
</tr>
<tr>
<td><strong>BED 108 Introduction to Shorthand (Shorthand Theory)</strong></td>
<td>2</td>
</tr>
</tbody>
</table>

30h (T); C

BED 109 Consumer Education
Basic economic principles; problems of consumption and buying choices. Elements of personal financial affairs: budgeting, saving credit, insurance and investment of funds. Knowledge of sources of aids for consumers and to make wise choice between true and false information. Government’s part in protection and advancement of consumer welfare and rights.

30h (T); C

BED 110 Introduction to National Policy on Education and Historical Development of Business Education in Nigeria

30 (T); E

BED 201 Business Education Law

30h (T); C

EMA 201 Introduction to Administrative Theories
Development of administrative theories from the classical approach to the behavioural approach (Theory X and Y, Contingency Theory etc.). Organizational design. Element of Administrative behavior, decision making, planning, organizing, assembling resources, supervising, controlling, appraising and evaluating.

30h (T); C

BED 202 Principles of Marketing
BED 203  Introduction to Financial Accounting  2 Credits
Accounting terms: assets, liabilities, debit, credit. Basic principles of accounting: receipts, payment, income and expenditures.
30h (T); C

BED 204  Office Practice II  2 Credits
30h (T); C

BED 205  Principles of Small Business Management  2 Credits
30h (T); E

BED 206  Business and National Development  2 Credits
Concepts and constitute of elements of political and economic dimensions of national development. Introduction to the comparative analysis of relations between business, political and economic system. Case study of the relationship between business and development planning in some selected countries.
30h (T); C

BED 207  Use of Computer in Business Education  3 Credits
Types and components of computers: hardware and software. Basic computer operations: data and information processing and transmission. Computer Programming.
45h (T); C

EMA 210  Collective Bargaining and Nigeria’s Educational Institutions  2 Credits

30h (T); E

(i) Office Technology and Management Option (Specialization)

At least 6 credits including the compulsory ones must be passed from this area of specialization.

BET 201 Office Systems and Procedures 2 Credits
Systems: reprographic, word processing, data processing, mailing, shipping, manufacturing, customer service and accounting.
30h (T); E

BET 202 Business and its Environment 2 Credits
Job and work standards. Business ethics and policies. Legal system in business organization; characteristics and types.
Environmental law and energy regulation. Legal implications of electronic communications and information systems on business.
Common international standards of measurement for solving business problems. Characteristics and features of an entrepreneurship: ethics, forms and ownership of ventures.
30h (T); E

BET 203 Information Technologies and Business Functions 2 Credits
Major components of marketing information technologies, accounting/finance, manufacturing, information, human resource management and their interrelationships.
30h (T); E

BET 204 Stenography and Transcription I 2 Credits
Theory and practical components of Stenography and Transcription: 24 consonants, P, B, T, D, - H; vowels; two forms of R; diphthongs; 5 Circle; ST & STR loops. Halving, downward L and double consonants. Short forms and phrases.
15h (T), 45h (P); C

BET 205 Keyboarding and Word Processing II 2 Credits
Printers sign and abbreviations, words and figures, layout of business letters, Carbon paper, layout of memos, column heading, speed and accuracy development.
15h (T), 30h (P); C
BET 206  Office Information and Communication Technology  2 Credits
Advanced word processing and revise keyboarding principle. Health and safety principles when operating computers. Word processing: proof-reading, editing, formatting, graphics, records management in the office, processing mail, electronic mail, stimulation productivity, equipment use, data security, entering and verifying computer literacy and internet technology.
30h (T); E

(ii) Marketing Option (Specialization)

At least 6 credits including the compulsory ones must be passed from this area of specialisation

BEM 201  Principles of Marketing  2 Credits
Reasons why customers return to the same business. Ways by which companies show concern for customers. Factors that influence customer-business relationship: return policies, pricing and advertising. Successful marketing strategy and positive customer relationships. Elements of the marketing mix: price, plan and promotion. Importance of marketing in a global economy.
30h (T); E

BEM 202  Commerce II  2 Credits
Concept of foreign trade, import and export. Terms of trade and terms of payment. Documents used in foreign trade. Concepts of warehousing, transportation, types of transport and communication. Bank s: types and role in commerce insurance, meaning, purpose and terms. Types and importance to economy stock exchange.
30h (T); E

BEM 203  International Trade Relations  2 Credits
30h (T); E

BEM 204  Market Research  2 Credits
Role of research in the solution of marketing problems. Available data and methods on the field of investigation.
30h (T); E
(iii) Accounting Option (Specialization)

At least 6 credits including the compulsory ones from the area of specialisation.
(See Department of Accounting for detailed course outlines)

BED 301  Case Studies in Business Education  2 Credits
Administrative and organizational theories as applied to the analysis of the purposes, functions and norms of education systems. Principles and practices in Business education. Actual and hypothetical cases to Business Education.
30h (T); C

BED 302  Business Statistics  2 Credits
30h (T); E

BED 303  Supervision in Business education  2 Credits
30h (T); E

EMA 303  Managerial Decision-Making  2 Credits
30h (T); E

BED 304  Management Information System  2 Credits
BED 305  Company Law in Business Education 2 Credits

30h (T); C

BED 305  Company Law in Business Education 2 Credits

30h (T); C

BED 306  Computer Skill Applications 2 Credits
In-depth activities in PowerPoint, Excel and adds Access to round out the complete the Microsoft Office Pro suite. These activities will integrate databases, spreadsheets and graphics.

30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EMA 306</td>
<td>Change and Innovation Processes in Formal Organization</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Deliberate and non-deliberate types of change. Administrative Strategies for promoting desired changes in organizations such as Schools, universities the military business forms, and public Bureaucracies. Focus on structural design, human relations strategies, evaluation process, long range strategic planning, political and economic dynamics. Evaluation of programmes and institutions.</td>
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<td></td>
<td>30h (T); E</td>
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<tr>
<td>BED 307</td>
<td>Business Finance</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>BED 308</td>
<td>Sales Management</td>
<td>2</td>
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<tr>
<td></td>
<td>Sales management and control: sales policies and formulating personal selling strategy, organizing sales efforts, Sales executive job and distribution network relations. Sales force management: placing and conducting sales travelling programme, motivating the individual sales person, evaluating and supervising sales personnel. Sales bid fiat, control and analysis.</td>
<td></td>
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<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>BED 309</td>
<td>Office Management</td>
<td>2</td>
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<td></td>
<td>Office organization. Office planning and layout. Modern office management. Record management, form design and control.</td>
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<td></td>
<td>30h (T); E</td>
<td></td>
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<tr>
<td>BED 310</td>
<td>Business Communication I</td>
<td>2</td>
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<tr>
<td></td>
<td>Communication Skills and communication process. Organizational Communications. Organizational structures for communicating. Communicating with the public. Barriers to communication.</td>
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<td></td>
<td>30h (T); E</td>
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<tr>
<td>BED 311</td>
<td>Economics and Administration of Co-operative Societies in Nigeria</td>
<td>2</td>
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<td></td>
<td>Concept and principles of cooperative. Types and roles of cooperatives. Organisational structure. Sources of finance. Problems and prospect of cooperative.</td>
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<td></td>
<td>30h (T); E</td>
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<tr>
<td>BED 320</td>
<td>S.I.W.E.S. (Industrial Attachment)</td>
<td>4</td>
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<tr>
<td></td>
<td>Students will be attached to business and industrial organization for a period of 6 months to acquire practical experience in their area of specialization</td>
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<td></td>
<td>60h (P); C</td>
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</tbody>
</table>
**Note:** At least 4 credits must be passed from the 300 Level elective courses.

(i) **Office Technology Option (Specialization)**

At least 6 credits including the compulsory ones must be passed from this area of specialization

**BET 301 Administrative Office Management** 2 Credits
30h (T); E

**BET 302 Stenography and Transcription II** 2 Credits
Drills on basic transcription techniques. Students’ typing and English skills and knowledge determined. Typing and transcribing rates on straight copy. Use of comma, semicolon and full stop. Drills on spelling words, remedial drill on English problems. Use of dash, apostrophe and quotation marks. Capitalization rules.
15h (T), 15h (P); C

**BET 303 ICT Office Applications I** 2 Credits
This course provides a solid background in developing a higher level of proficiency in computer, application software and keyboarding skills; more advanced applications in Microsoft Office, including Word, Excel and PowerPoint. This is purely office application.
15h (T), 15h (P); C

**BET 304 Desktop Publishing** 2 Credits
Concept of word processor and applications in designing brochures (2-fold and 3 – fold), flyers, business cards, pamphlets and posters. Importance of using the right software that is appropriate for each task in the office. Difference between Word processors and desktop publishing. Basic competencies in using desktop publishing concepts to produce a simple publication. Identification and use of appropriate software.
30h (T); E

**BET 305 Professional Ethics and Social Responsibility** 2 Credits
Concept of profession and professionalism. Concepts, ethics and professional work ethics. Ethical standards and behaviours in the office. Distinction between ethics and morals. Roles of professional bodies in promoting ethical practices. Roles of government in regulating ethical practices.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BET 306</td>
<td>Web Page Design</td>
<td>2</td>
<td>Types of websites and information delivery using the Internet. Concepts of e-commerce and e-business and the role of successful webpage production to achieve online business success and delivering information online.</td>
</tr>
</tbody>
</table>

**Marketing Option (Specialization)**

At least 6 credits including the compulsory ones must be passed from this area of specialization

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEM 302</td>
<td>Distributive Finance</td>
<td>2</td>
<td>Determining cash needs. Projecting the total cash needed to start a business: start-up, ongoing operational expenses and cash reserves. Sources and types of funding. Types of funding for an entrepreneur: mortgage, short-term loan, long-term loan and credit line. Interpreting financial statements. Factors that cause changes in the financial picture of a business.</td>
</tr>
<tr>
<td>BEM 304</td>
<td>Distributive Management</td>
<td>2</td>
<td>Establishing a vision including creating and developing strategies for achieving a personal vision. Goals and objectives for a planned business. Hiring employees. Organisational structure of a planned business. Alternatives to hiring permanent full-time employees. Building teams including importance of motivation, leadership and trust to members of a team. Monitoring achievement. Managing risks.</td>
</tr>
<tr>
<td>Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>BEM 305</td>
<td>Global Markets</td>
<td>2</td>
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<td></td>
<td>30h (T); E</td>
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<tr>
<td>BEM 306</td>
<td>e-Commerce</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>(iii)</td>
<td>Accounting Option(Specialization)</td>
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<td></td>
<td>At least 6 credits including the compulsory ones must be passed from this area of specialisation</td>
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<td>(See Department of Accounting for detailed course outline)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BED 401</td>
<td>Business Communication II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Communication theory and practice in oral, written and non-verbal situations, communication model. Analysis of business communication and the strategies of application including take-over, merger. Distinction between acquisition and merger accounting. Review of the various SSAP statements and their impact on accounting principle and practices. Accounting for pension funds. Accounting for local authorities and Governments.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>BED 402</td>
<td>Policy Analysis in Business Education</td>
<td>2</td>
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<tr>
<td></td>
<td>Analysis of the decision-making process in complex business organizations. Impact of power, resources, organizational structure, information and enrolment on decision making models and their implications for business and educational administration. A critical analysis of business and educational policy documents and reports in Nigerian. Role of interest groups in the process of policy formation and review. Issues of business education in the Universal and Basic Education.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>EMA 402</td>
<td>Economics of Education</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

30h (T); E

**BED 403** Personnel Administration and Evaluation in Business Education 2 Credits

30h (T); C

**BED 404** Contemporary issues in Business Education 2 Credits
Discussion of current issues and problems in Business Education with a view to providing solution.

30h (T); E

**EMA 408** Educational Finance 2 Credits

30h (T); C

**BED 499** Research Project in Business Education 4 Credits
A research project in Business education involving collation, analysis and interpretation of data or other types of evidence for an empirical or historical research.

60h (T); C

**Note:** At least 4 credits must be passed from the 400 Level elective courses

(i) **Office Technology Option(Specialization)**

At least 6 credits including the compulsory ones must be passed from this area of specialization

**BET 401** ICT Office Applications II 2 Credits
Advanced word processing and keyboarding principles and techniques. Application of health and safety principles when operating computers at work. Developing skills using spreadsheet applications and keyboarding techniques to enter data accurately.

15h (T), 30h (P); C
BET 402  Advanced Stenography and Transcription  2 Credits
Develop ability to take down dictation passages for production work and varied materials at irregular speed of not less than 80 wpm. Compose business and other relevant documents from limited information or instructions. Know how to plan, organize and produce mail able documents. Techniques for covering meeting and recording the proceedings of a meeting; Acquire the skills for collecting relevant information from source documents.
15h (T) 30h (P); E

BET 403  Exploring Business Technologies  2 Credits
Nature of business organisation in an international economy. Careers in entrepreneurship, financial services, information technology, marketing, office systems technology, public relations and promotion, and travel and tourism. Computer applications in such careers including relevant skills: problem solving, thinking skills, communication and mathematics skills
30h (T); E

BET 404  Advanced Keyboarding and Words Processing  2 Credits
Alphabetic sentence drills and remedial exercise. Procedure and layout of Business. Personal and official letters and memos. Manuscript, Insert matter Roman numerals
15h (T); 45h (P); C

(ii)  Marketing Option(Specialization)

At least 6 credits including the compulsory ones must be passed from this area of specialization

BEM 401  Markets and Prices  2 Credits
Effects of different prices on buying and selling decisions of consumers and producers. Role of market in determining what, how and for whom economic goods and services are produced in the Nigerian economy. Equilibrium price changes and changes in supply or demand. Market reaction to governmental intervention.
30h (T); E

BEM 402  Market Structures  2 Credits
How competition among sellers of a good or service generally results in lower price for buyers and lower profit for sellers. Characteristics of monopoly, natural monopoly and identity example in the market. Major barriers to new firms entering a market and barrier effects on level of competition in an industry. Examples of positive and negative externalities and government’s role in correcting market failures including tax policies, subsidies and regulations.
30h (T); C

BEM 403  Productivity  2 Credits
Effects of investment in research and development on productivity. Distinction between fixed, variable and explicit costs. Principle of diminishing returns and how it relates to productivity. Differentiating between lowest costs, marginal cost and average cost per unit. Short-run average costs and long-run average costs.

BEM 404 Production Management 2 Credits
30h (T); E

BEM 405 International Marketing 2 Credits
30h (T); C

BEM 406 International Finance 2 Credits
Currency and exchange including international financial strategies: hedging, third-party help, pooling risk and diversification to manage foreign exchange risks. Financial institutions and trade agreements: growth, regulations and the impact of international banking on global business, payment methods and reporting and payment options available in international trade given situations. Risk management.
30h (T); E

(iii) Accounting Option (Specialization)

At least 6 credits including the compulsory ones must be passed from this area of specialization
(See Department of Accounting for detailed course outline)
SUMMARY

100 LEVEL

Compulsory Courses: 
BED101 (2), BED102 (2), BED103 (2), EMA103 (2), BED104 (2), 
BED107 (2), BED108 (2), BED109 (2) = 18 Credits

Required Courses: 
EDU 111 (2), 112 (2), 116 (2), GNS 111 (2), GNS 112 (2) = 10 Credits

Elective Courses: 
At least 2 credits must be passed from the following: 
BED 105 (2), EMA 105 (2), BED 106 (2), (BED 110 (2) = 8 Credits 
Total = 32 Credits

200 LEVEL

Compulsory courses: 
BED 201 (2) EMA 201 (2), BED 202 (2), BED 203 (2), BED 204 (2), BED207 (3) 
= 13 Credits

Required Courses: 
EDU 201 (2), 202 (2), 203 (2), 204 (2), GNS 211(2), GNS 212 (2) 
= 12 Credits

Direct Entry Students: 
GNS 111 (2), 112 (2) = 4 Credits

Elective Courses: 
At least 2 Credits must be passed from the following: 
BED 205 (2), BED 206 (2), EMA 210 (2) = 4 Credits

TOTAL = 29 Credits
Direct Entry = 33 Credits

Options (Specialisation)
At least 6 credits from each of the following area must be passed:
(i) BET 201 (2), 202 (2), 203 (2), 204 (2), 205 (2), 206 (2) = 6 Credits
(ii) BEM 201 (2), 202 (2), 203 (2), 204 (2) = 6 Credits
(iii) ACC 201 (3), 204 (3), 205 (3), 214 (3) = 6 Credits

300 LEVEL

Compulsory Courses: 
BED301 (2), BED302 (2), BED305 (2), BED306 (2), EMA 306 (2) 
BED 308 (2), BED 320 (2) = 14 Credits
Required Courses: EDU 301(2), 302(2), 303(2), 304(2) 305(2), GNS 311(2), GSE 301 (2)  
= 14 Credits

Elective Courses: At least 4 credits must be passed from the following:  
EDU 302 (2), BED 303 (2), EMA 303 (2), BED 304 (2), BED 307 (2), BED 308 (2) BED309 (2), BED 310 (2), BED 311 (2)  
= 16 Credits

Total = 44 Credits
Options (Specialisation)

At least 6 credits including the compulsory ones from each area of the following specialization must be passed

(i) Compulsory Courses: BET 302 (2), 303 (2)
    Elective Courses: BET 301 (2), 304 (2), 305 (2), 306 (2)

(ii) Compulsory Courses: BEM 301 (2)
    Elective Courses: EMA 303 (2), BEM 304 (2), 305 (2), BEM 306 (2), BEM 302 (2), BEM 303 (2)

(iii) Compulsory Courses: ACC 301 (3)
     Elective Courses: ACC 302 (3), 303 (3), 308 (3), 310 (3), 316 (3)
     = 18 Credits

400 LEVEL

Compulsory Courses: BED 403 (2), BED 404 (2) EMA 408 (2), BED 499 (4) = 10 Credits

Required Courses: EDU 411 (2), 412 (2), 413 (2) 414 (2), 415 (2) 416 (2), 417 (2)
     = 14 Credits

Elective Courses: At least 4 credits must be passed from the following:
     BED 401 (2), BED 402 (2) EMA 402 (2), BED 403 (2), BED 404 (2)
     = 10 Credits
     TOTAL = 34 Credits

At least 6 credits including the compulsory ones from each area of the following specialization must be passed

(i) Compulsory Courses: BET 401 (2), 404 (2)
    Elective Courses: BET 402 (2), 403 (2)

(ii) Compulsory Courses: BEM 402 (2), 405 (2)
    Elective Courses: BEM 401 (2), 403 (2), 404 (2), 406 (2)

(iii) Compulsory Courses: ACC 408 (3)
     Elective Courses: ACC 401 (3), 402 (3), 403 (3), 404 (3), 418 (3)
     =18 Credits
B.Ed. Educational Management

EMA 101 Evolution of Educational Management in Nigeria 2 Credits
Origin and development of Educational Management in Nigeria from traditional education to the Western education and the contributions of Education Ordinances and Commissions to the development of education in Nigeria since 1882.
30h (T); C

EMA 102 Introduction to the National Policy on Education 2 Credits
30h(T): C

EMA 103 Basic Theories of Management 2 Credits
Overview of the historical development of management theories. Classical school of management. Behavioural school of management. Management functions at various managerial levels and managerial skills.
30h (T); C

EMA 104 Introduction to Curriculum Management 2 Credits
30h (T); E

EMA 105 Record Keeping in Schools 2 Credits
30h (T); C

EMA 106 Introduction to Human Resources Management 2 Credits
Fundamental principles and practices of recruiting and selecting, placing and inducting, developing, appraising, rewarding performance and utilizing human resources. Appropriate employment practices and implications for education managers.
30h (T); C

EMA 107 Introduction to Computers in Educational Administration 2 Credits
Overview of computers as tool, tutor, tutee. Current major uses of computers in educational management tasks. Types of computers. Hardware and software. Components of computer hardware. Operating a computer system for administrative tasks.

15h (T), 45h (P); C

**EMA 108**  
*Introduction to Pupil Personnel Administration*  
2 Credits  
Organization and implementation of the student services for a sound instructional programme. Administration and supervision of student activities. Student participation in school management.

30h (T); C

**EMA 109**  
*Introduction to School-Community Relations*  
2 Credits  
Development of school and community relations. Participation of laymen in planning school programmes. Cooperation through appropriate agents and agencies. Relationship of school personnel with the public.

30h (T); E

**EMA 110**  
*Introduction to Conflict Management in Education*  
2 Credits  
Sources of organizational conflicts. Procedures and techniques of conflict management in Education.

30h (T); E

**EMA 201**  
*Introduction to Administrative Theories*  
2 Credits  
Development of administrative theories from the classical approach to the behavioural approach (theory X, theory Y and contingency theory).

30h (T); C

**EMA 202**  
*Introduction to Educational Planning*  
2 Credits  
History of educational planning. Types of planning: manpower requirements, social demand, and rate of return / cost benefit analysis approaches. Conditions for success in educational planning. Relationship between educational planning and economic planning. Political and economic functions of educational planning. Problems and issues in planning education in Nigeria.

30h (T); C

**EMA 203**  
*School Management Laws and Standard Procedures*  
2 Credits  

30h (T); C

**EMA 204**  
*Education and National Development*  
2 Credits
Concepts and constituent elements of political and economic dimensions of educational and national development. Introduction to the comparative analysis of the relationship between educational system and the political and economic system. Case study of the relationship between educational planning and development planning in one selected country from any of the following regions of the world: Africa, Asia, North America, Latin America and Western Europe.

**30h (T); E**

**EMA 205** **Historical Development of Educational Management in Nigeria**  
2 Credits  
Development of educational administration in Nigeria before Lugard’s period. Development of British colonial education policy in West Africa in general and Nigeria in particular.  
30h (T); E

**EMA 206** **School Plant Planning, Operation and Management**  
2 Credits  
Critical approach to the problems of school plant planning: design, siting, building materials, ventilation, space accommodation and utilization.  
30h (T); C

**EMA 207** **Use of Computer in Educational Management**  
2 Credits  
Computer and the information age. Current major uses of computers in educational management functions: data and information processing, information storing and retrieval and data transmission. Introduction to programming principle.  
30h (T); C

**EMA 208** **Elements of Financial Accounting in Education**  
2 Credits  
Accounting terms e.g. assets, liabilities, debit, credits, etc. Basic principles of accounting including receipts and payments, income and expenditure accounts. Double entry book-keeping. Balance sheet, cash book, petty cash system.  
30h (T); C

**EMA 209** **School-Community Relations**  
2 Credits  
Development of school and community relations. Participation of community members in planning school programmes. Cooperation through appropriate agents and agencies. Relationship of school personnel with the public.  
30h (T); E

**EMA 210** **Collective Bargaining and Nigeria’s Educational Institutions**  
2 Credits  
30h (T); E
EMA 211 Communication in Education 2 Credits
Communication skills, communication process, organizational communications, organizational structures for communicating.
Communicating with the public. Barriers to communication.
30h (T); E

EMA 212 Professional Ethics in Education 2 Credits
Concept of profession in teaching. Role of training in the development of teacher professional ethics. Laws (sources, types and implications) guiding teaching profession in Nigeria. Teachers codes of conduct and discipline.
30h (T); C

EMA 301 Case Studies in Educational Management 2 Credits
Administrative and organizational theories as applied to the analysis of the purposes, functions, and norms of educational systems. Principles and practices in educational administration. Actual and hypothetical cases to illustrate theoretical analysis.
30h (T); E

EMA 302 Quantitative Methodology in Educational Planning 2 Credits
Analysis and appraisal of statistical data in Education. Evaluation of techniques used in educational planning. Projections, programming and detailed allocation of costs. Feasibility testing and consideration of alternatives.
15h (T), 45 (P); C

EMA 303 Managerial Decision-Making 2 Credits
30h (T); E

EMA 304 Practicum in Educational Management I 2 Credits
Uses of simple techniques: histogram, progression table, flow charts etc. Enrolment forecasting and other techniques for administrative and policy problem solving in Education.
15h (T), 45 (P); C

EMA 305 Leadership in Formal Organization 2 Credits
Concepts of power and authority. Problems of leadership in complex organizations: schools, universities, hospitals, business firms, the military and public bureaucracies with emphasis on role of major executives.
30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EMA 306</td>
<td>Change and Innovation Processes In Formal Organization</td>
<td>2</td>
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<tr>
<td></td>
<td>Deliberate and non-deliberate types of change. Administrative strategies for promoting desired changes in organizations: schools, universities, military, business firms, and public bureaucracies with focus on structural design, human relations strategies, evaluation process, long range strategic planning, political, and economic dynamics. Evaluation of programmes and institutions.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>EMA 307</td>
<td>School Mapping</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>EMA 308</td>
<td>Supervision of Instruction</td>
<td>2</td>
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<td>Aims, purposes, patterns and processes of supervision. Functions and duties of a supervisor. Curriculum development, analysis of classroom activities and improvement of instruction through supervisory techniques. Trends in supervision and accepted procedures for observation.</td>
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<td></td>
<td>30h (T); C</td>
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<tr>
<td>EMA 309</td>
<td>Trends in Nigerian Education</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Overview of major forces influencing educational change and innovation in Nigeria. Recent trends in the development of primary, secondary and university education in Nigeria. The National Policy on Education of 1977 and other reforms in the educational system.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>EMA 310</td>
<td>Introduction to Group Dynamics in Education</td>
<td>2</td>
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<tr>
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<td>Meaning and importance of groups. Types of groups. Rationale for group formation. Technology and work group in education.</td>
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<td>30h (T); E</td>
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<tr>
<td>EMA 401</td>
<td>Politics of Education</td>
<td>2</td>
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<tr>
<td></td>
<td>Politics of educational reform and policy making. Case study of the politics of educational innovation in selected countries. Inter-organizational relations among local school boards, ministries of education and other governmental bodies responsible for educational policy making and implementation. Education, political recruitment and merit.</td>
<td></td>
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<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>EMA 402</td>
<td>Economics of Education</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Human resources development. Problems of manpower planning. Social and economic implications of educational planning.</td>
<td></td>
</tr>
</tbody>
</table>

30h (T); C

**EMA 403**  
**Policy Analysis in Education**  
2 Credits  
Analysis of the decision-making process in complex organizations. Impact of power, resources, organizational structure, information and enrolment, decision making models and their implications for educational administration. A critical analysis of policy documents and reports in Nigerian education. Role of interest groups in the process of policy formation and review. Issues of Universal and Basic Education.

30h (T); C

**EMA 404**  
**Practicum in Educational Management II**  
2 Credits  
Management techniques in Educational planning and administration. Practical work on PPBS, Pert, System Analysis, Delphi and Model Building. Analysis and grading of jobs in various sections of the educational system.

15h (T), 45h (P); C

**EMA 405**  
**Administration of Primary and Secondary Education in Nigeria**  
2 Credits  

30h (T); C

**EMA 406**  
**Personnel Administration and Evaluation**  
2 Credits  

30h (T); C

**EDU 415**  
**Educational Planning and Management in Education**  
2 Credits  
A broad overview of the basic principles, theories, goals and techniques of management studies in education. Concept of Educational Management, functions of Educational Management, Management Principles, leadership in school administration manager, decision making in schools, staff motivation, supervision in schools etc.

30h (T); C

**EMA 408**  
**Educational Finance**  
2 Credits
30h(T); C

**EMA 409  Contemporary Issues in Educational Management**  
2 Credits 
Conflict and conflict resolution. Discussion of current issues and problems of the educational system with a view to proffering solutions. 
30h (T); C

**EMA 410  Internship in Educational Management**  
2 Credits 
Attachment to educational organizations. Students will write and submit individual reports for grading. 
90h (P); C

**EMA 411  Administration of Early Childhood and Primary Education in Nigeria**  
2 Credits 
30h (T); E

**EMA 412  Establishing New Schools**  
2 Credits 
30h (T); E

**EMA 413  Administration of Post-Secondary Education**  
2 Credits 
Types of post-secondary educational institutions: polytechnic, colleges of technology, universities and colleges of education. Organizational and administrative structures in each type of institution. Academic and manpower factors responsible for differences in structures. Staff, student, financial and physical plant administration. Functions of major executive in these institutions. 
30h (T); C
SUMMARY

100 Level

Compulsory Courses: EMA 101(2), 102(2), 103(2), 105(2), 106 (2), 107(2), 108(2)
= 14 Credits

Required Courses: EDU 111(2), 112(2), 116(2), GNS 111(2), 112(2)
= 8 Credits

Electives Courses: A: At least 4 Credits from the following:
EMA 104 (2), 109 (2), 110 (2)
= 4 Credits

B: At least 6 Credits from the following teaching subjects:
(i) ACC 101(3), 102(3), 104(3)
(ii) PLB 101(3), 108(2), ZLY 101 (2)
(iii) CHM 101(3), 112(2), 115 (2), 116 (1), 132(2)
(iv) ECN 101(3), 102(3), 103(2), 104(2), 105(2), 106(2)
(v) ENG 101(2), 102(2), 105 (2), 114(2)
(vi) GPE 121 (3), 122(2), 131(3), 132 (3), 141(3), 193 (3), 195 (3)
(vii) HIS 101 (3), 102 (3), 105(3), 106 (3)
(viii)L1Y 101(3), 103(3), 104(3), 107(3)
(ix) MAT 111(3), 112(3), 114(3), 117(3)
(x) POS 111 (3), 112(3), 114(3), 117(3)
(xi) ARA 121 (3),122(2),124(3), 125(3)
(xii) RCS 121(3), 122(2), 123(2), 124(2)
(xiii) RIS 121(2), 122(2), 123(2), 124(1), 125(3)
= 6 Credits

Total = 34 Credits

200 LEVEL

Compulsory Courses: EMA 201(2), 202(2), 203(2), 206(2), 207(2), 208(2), 212(2) = 14 Credits

Required courses: EDU 201 (2), 202 (2), 203(2), EDU 214(2), GNS 211(2), 212(2)
= 12 Credits

Direct Entry Students: GNS 111(2), 112( 2)
= 16 Credits

Elective Courses: A: At least 4 Credits from the following:
EMA 204 (2), 205 (2), 209 (2), 210(2), 211(2) = 4 Credits

**B:** At least 6 Credits from teaching subjects:
(i) ACC 201 (3), 204(3), 205(3), 214 (3)
(ii) ANP 205 (3), 206(2), 207 (2)
(iii) PLB 201 (3), 202 (3), 203 (3), 204 (3), ZLY 201 (3), 202 (3), 206 (2)
(iv) CHM 235 (3), 236 (3), 212 (3), 213 (2)
(v) ECN 201 (3), 202 (3), 205 (2), 206 (2)
(vi) ENG 205 (3), 206 (3), 219(2), 223 (3)
(vii) GPE 221 (2), 222(2), 223(2), 231 (3), 232(2), 294 (2)
(viii) HED 204(3), 205(3), 206(3), 207(3)
(ix) HIS 201 (3), 202 (3), 205 (3), 207 (3)
(x) LIY 201 (2), 202 (3), 203 (3), 205(3), 207(3)
(xi) MAT 201 (3), 203(3), 206(3), 208 (2), 212 (3)
(xii) POS 211 (3), 213 (3), 214 (3), 218 (3)
(xiii) ARA 222 (3), 223(2), 224(2), 227( 2), 228(2)
(xiv) RCS 221(3), 224(2), 226(1), RCR 201(3), 204(1)
(vx) RIS 221 (2), RIS 222 (3), 223(2), 224 (1)

= 6 Credits

Total = 36 Credits
Direct Entry = 40 Credits

**300 LEVEL**

**Compulsory Courses:**
EMA 302(2), 304(2), 305 (2), 306 (2), 308 (2) =10 Credits

**Required Courses:**
EDU 301 (2) 302 (2), 303 (2), 304 (3), 305 (2), GNS 311(2), G S E
= 18 Credits

**Elective Courses:**

**A:** At least 4 Credits from the following:
EMA 301 (2), 303(2), 307(2), 309(2), 310(2)= 4 Credits

**B:** At least 6 Credits from the following teaching subjects:
(i) ACC 301 (3), 302 (3), 303 (3), 305 (3), 308 (3)
(ii) ANP 301 (2), 302 (2), 305 (3)
(iii) PLB 301 (3), 302 (3), ZLY301 (2), 302 (3), 303 (3)
(iv) CHM 301 (3), 302 (2), 324 (3), 325 (2), 329 (2), 331 (3)
(v) ECN 309 (2), 310 (2), 312 (2), 314 (2)
(vi) ENG 304 (2), 325(2), 326(2), 328 (2), 329 (2)
(vii) EDU 301 (3), 303(3), 304 (3), 307 (2)  
(viii) HIS 301 (3), 302 (3), 303 (3), 304 (3),305 (3) 308 (3), 309 (3), 312 (3)  
(ix) LIY 301 (2), 303 (3), 305 (3), 306 (3), 309 (3), 310(3)  
(x) MAT 306 (3), 311 (3), 313 (3), 327 (3), 332 (3)  
(xi) POS 311 (2), 312 (2), 314 (2), 315 (2), 318 (2), 323(2)  
(xii) ARA 321 (2), 325(2), 326 (3), 328 (3)  
(xiii) RCS 321 (2), 322 (2), 325 (3), 328 (2), 329(1), 330(2)  
(xiv) RIS 321 (2), 322 (2), 323 (2), 324 (3), 325 (2), 326 (2)  
(xv) GPY 221 (2), 222 (2), 223 (2), 231 (3), 232 (2), 294 (2)  
(xvi) RCR 321 (3), 324 (1), RCS 332 (2)  

= 6 Credits  
Total = 38 Credits

400 LEVEL

Compulsory Courses:  
EMA 403 (2), 404(2), 405(2), 406(2), 408(2), 409(2), 410(2), 413 (2) , 419(4), EDU 415 (2),  
= 22 Credits

Required Courses:  
EDU 411(2), 412(2), EDU 413(2), SSE 414(2), 416(2), EDU 417(2) 
=12 Credits

Electives Courses:  
At least 4 Credits from the following:  
EMA 401(2), 402 (2), 411(2), 412 (2)  
= 4 Credits

Graduation Requirement:  
UTME = 146 Credits  
DE = 116 Credits

Total = 38 Credits

DEPARTMENT OF EDUCATIONAL TECHNOLOGY
Course Description

B.A. (Ed.)/ B.Sc. (Ed.) Educational Technology

EDT 111  Introduction to Historical and Philosophical foundations of Educational Technology  2 Credits

Historical and philosophical background and effects of educational technology at the global and local levels. Various philosophical schools of thought and their impact on the theory and practice in Educational Technology.

30h (T); C

EDT 112  Science, Technology and Sustainable Development  2 Credits

Impact of scientific and technological development on the cosmic and human environment and their interaction with the total environment. Impact of technology on socio-cultural and economic development: poverty alleviation, maintenance culture, agriculture, industrialization, community development, health education, sport, water supply and urbanization. Sustainability principles and ecological balance of technology. Social responsibilities of technologist to the six human needs: food, water, energy, shelter, education and health.

30h (T); C

EDT 113  Introduction to Graphics in Education  2 Credits

Fundamentals and concept development on typography, composition, and color. Differences between ordinary images and powerful and effective graphics for instruction. Color and its implications for instructional designers; ideas of space and the use of color to solve spatial problems Color quality, combination harmony and interaction for instructional purposes.

15h (T); 45h (P); E

EDT 114  Computers in Education  2 Credits

Background, types, functions, components and other relevant features of the computer and its role globally in education. Practical operations of computer in teaching and training. Integrating Microsoft Word, Excel, PowerPoint, and database software tools into teaching and learning.

15h (T); 45h (P); C

EDT 115  Introduction to Photography in Education  2 Credits

Concept and history of photography in education. Types of camera. Light and the human eye. Photographic lenses, exposure control, ISO, apertures, depth of field and shutter speeds; aperture setting, darkroom activities, processing of pictures, and post processing. Filters, extension tubes and supplementary lenses, light meter and exposure methods. Elements for good instructional photographs.
EDT 116  Educational Technology in Pre-Primary and Primary Education  2 Credits
Integration strategies and skills for using instructional technology and educational software, digital media, and information
technologies appropriate to pre-primary and primary school teaching environments. Selection of appropriate instructional
technologies for use in the classroom; production for technology-based instructional materials, evaluation and validation of a
variety of instructional materials.
30h (T); E

EDT 117  Principles of Distance Education  2 Credits
Theories, paradigms, and the history of distance education. Distance learning technologies. Critique of current research and
assessment of online learning (blended and fully online delivery). Accessibility issues, open source, best practices to facilitate
learning, global trends, and mass higher education. MOOC paradigm, synchronous versus asynchronous platforms.
30h (T); E

EDT 118  Psychological and Sociological Foundation of Educational Technology  2 Credits
Various psychological and sociological schools of thought in educational technology; effects on the theory and design of the school
curriculum and welfare of the society generally.
30h (T); C

EDT 119  Introduction to Instructional Materials Design, Production and Utilization  2 Credits
Project management and basic skills in instructional design and development. Project design based on major learning theories;
constructivism, cognitivism, and behaviorism. Determination of instructional content, accurate identification of learner
characteristics and effective instructional strategies. Class activities, collaboration and reflection on situations for which learning or
other solutions may be required.
15h (T), 45h (P): C

EDT 120  Introduction to E-Learning  1 Credit
Concepts of e-learning, means of delivering e-learning, maintenance and evaluation of e-learning system, e-learning technique,
advantages and disadvantages. Designing for the virtual classroom. Planning: technology, products, budget and marketing.
Limitations and challenges of e-Learning.
15h (T); E

EDT 121  Instructional System Design  2 Credits
Concepts and principles of instructional design (ISD). Complexities of designing instruction in the context of educational and corporate training environments. Classic ISD theories and models; application of ISD theories and models to educational or corporate context.

30h (T); E

EDT 122  **Introductory Computer Graphics and Imaging**  2 Credits
Image input and output devices: cameras displays, graphics hardware and software, input technologies and interactive techniques. Typography, page layout, light, colour representations, tone reproduction, image composition, imaging models, digital signal processing, aliasing and anti-aliasing, compression, 2-D and 3-D geometry and transformations. Modeling techniques: curves, surfaces, reflection and illumination algorithms. Digital graphic software application.
15h (T); 45h (P); E

EDT 123  **Educational Technology in Secondary Education**  2 Credits
Developing integration strategies and acquiring skills for using instructional technology and educational software; information technologies appropriate to basic school and secondary school teaching environments. Selection of appropriate instructional technologies for use in the classroom; production of technology-based instructional material, evaluation and validation of media resources.
30h (T); E

EDT 124  **Production Practical I**  2 Credits
90h (P); C

EDT 205  **Introduction to Educational Technology**  2 Credits
15h (T), 45h (P); C

EDT 211  **Audio-Visual Techniques**  2 Credits
Audio and visual techniques and their synchronization principles and practices. Practical demonstration: audio-graphics, audio-transparency, audio-pictorial, audio-slide production. Video recording and evaluation of the production.
15h (T), 45h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDT 212</td>
<td><strong>Introductions to Library Studies</strong></td>
<td>2</td>
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<tr>
<td></td>
<td>Growth and development of the library: types, functions, diversion and roles. Personnel and management of the library. Visit to university, school, state and other libraries. Alternative strategies to the library in rural communities.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>EDT 213</td>
<td><strong>Educational Audio and Radio Production</strong></td>
<td>2</td>
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<td>Scriptwriting for educational audio/radio production. Format and style of each type of writing. Overview of the recording studio. Basic studio electronics and acoustic principles: sound in recording, sound reinforcement, waveform analysis, microphone design and placement techniques, studio set up and signal flow. Recording console theory, signal processing concepts, tape machine principles and operation. Overview of mixing and editing.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>EDT 214</td>
<td><strong>Instructional Communication Models, Media, Principles and Techniques</strong></td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>EDT 215</td>
<td><strong>Designing Instruction for Distance Education</strong></td>
<td>2</td>
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<td>Learning styles, learning theory, social networking and collaborative group influences, assessment, global perspectives, and diversity. Effective online educational experiences from education and the workplace. Developing, field testing, and revising a web-based unit. Engaging instructional electronic strategies to enhance design and development.</td>
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<tr>
<td>EDT 216</td>
<td><strong>Learning Theories and Educational Technology</strong></td>
<td>2</td>
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<td>Learning theories and their application to educational technology: behaviourism, cognitivism, constructivism and connectivism. Use of a variety of theories: multiple intelligences, constructivism. Computers as mind tools, brain-based learning, and connectivism to learn how technology facilitates learning. Challenges regarding the use of constructivist and collaborative activities for learning and solutions for overcoming these barriers.</td>
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<td>30h (T); E</td>
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<tr>
<td>EDT 217</td>
<td><strong>Internet in Education</strong></td>
<td>2</td>
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<td>Use of the Internet and the World Wide Web in educational settings; strategies for effective student and teacher use. E-mail, web-browsing, videoconferencing, implementation, ethics and issues. Alternatives in web development.</td>
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</tbody>
</table>
EDT 218  Leading and Managing Educational Technology  2 Credits
Leadership in the integration of technology in business and education. Strategic planning, administrative functions, systems
acquisition, coordination, implementation, technology management and its implications for teaching and learning. Policies on
human resource development, staff development, information access, security, management control, and evaluation.
30h (T); E

EDT 219  Print Media: Design and Technology (Printing Technology)  2 Credits
Historical background and development of print technology from its inception in Egypt, Mesopotamia and China to the present age
of computer technology. Case studies and visit to printing press and associated sectors. Desktop publishing for education. Digital
printing software. Colour: colour settings, balance, saturation and printer profiles, preparing files for print out; resolution, pixel
dimensions, interpolation, print preview. Preview, prediction and proofing using profiles, and creative hand-printing techniques.
Montage/composite prints, masking, pen tools and processes. High-resolution cut-outs: paths, keyboard short cuts, conversion to
selections. Layers and smart filters.
15h (T), 45h (P); C

EDT 220  Media Literacy  2 Credits
Media literacy applied in critical thinking skills for analyzing the source of information. Media: awareness of the impact on
individual and society; process of communication; critical approaches to analyze and discuss media messages; awareness of media
content and the cultivation of an enhanced enjoyment, understanding, and appreciation of media content.
30h (T); E

EDT 221  Educational Technology in Teaching (Educational Technology I)  2 Credits
Introduction to the field of educational technology and its impact on teaching and learning. Skills, insight, and practice in selecting,
using, producing, and managing instructional technology tools in the primary, secondary and higher institution setting. Strategies for
integrating technology into all aspects of teaching and learning. Emerging trends and issues in educational technology for teaching.
30h (T); C

EDT 222  Cinematography Educational Video and Television Production  2 Credits
Storyboard and script writing, graphic design, editing, instructional design and directing; film, video and audio production. Sound
engineering, animation, film editing, digital media, cinematography. Practical hands-on experience: operation of large format
computer-automated mixing console and multi-track recording and computer. Production and post-production of audio and
television production. Camera setup and operation, field audio, television directing, in-camera/basic continuity editing.
15h (T), 45h (P); C
EDT 223  Technologies for Special Education (Diverse Learners and Technology)  1 Credits
Technology to bridge achievement gap for students from culturally, economically, and linguistically diverse backgrounds. Technology for varying ability levels; assistive technologies for students with special needs; and technology as a tool to engage and motivate gifted students. Case study scenarios to demonstrate students’ understanding of course content, and adaptation of curriculum to meet needs of diverse learners.
30h (T); E

EDT 224  Introduction to Edutainment  2 Credits
Overview of instructional elements in technology-based edutainment: cartoons, TV programmes, movies, digital games, and smart phones. Research on practical application of edutainment in classroom settings through experimentation and play.
30h (T); E

EDT 225  Educational Games and Simulations  2 Credits
Theory and implementation of implementation of games, simulations, and virtual environments for improved instructional engagement. Include evaluation methods and socio-cultural implications
30h (T); E

EDT 226  Production Practical II  2 Credits
Production of Audio, Visual and Audio-Visual materials for specific area of discipline. Practical demonstration of skills in tools manipulation, projection techniques and audio-visual techniques. Integration of theory and practice to simple tools maintenance.
90h (P); C

EDT 227  Design, Development and Evaluation of Educational Software  2 Credits
Overview of computer aided instruction (CAI): types of CAI, features, advantages and limitations of different CAI modes, strengths and weaknesses, and effective CAI. Learning theories application in courseware design and authoring. Planning and managing CAI projects. Designing and producing CAI. Evaluation and revision of CAI.
15h (T), 45h (P); E

EDT 228  E-Learning Programme Planning and Implementation  2 Credits
Instructional design processes in the planning and implementation of Web-based, e-learning programmes. Project-development cycle, identification of appropriate learning technologies and strategies, use of content-management systems, curriculum development and evaluation strategies. Different types of e-learning environments, and accessibility and usability for a wide range of learners.
15h(T), 45h (P); E

EDT 229  Learning Theories, ISD Models, and E-Learning  2 Credits
Overview of learning theories and their relevance to e-learning, e-learning theories and methodology, evaluation of e-learning models and learning theories, three categories of ISD (Classroom Orientation, Product Orientation, and System Orientation) in e-learning.

30h (T); E

**EDT 230 ICT and Teacher Education**

ICT in teacher education (pre-service and in-service), ICT and teachers’ skills for the 21st century, teachers’ ICT skills (UNESCO ICT Competency Framework for Teachers [ICT-CFT], ISTE Educational Technology Standards for Teachers, guidelines for teacher training and professional training in ICT.

30h (T); E

**EDT 311 Microteaching and Observation**

Practical observation of expertise and microteaching to develop skills in equipment manipulation and teaching events. Skills acquisition in sequencing, questioning, synchronization, overlaying, scripting and designing.

15h (T), 45h (P); C

**EDT 312 Educational Technology I: Software**

Categories of instructional software: components, design, production strategies, utilization principles and evaluation techniques. Production of instructional.

15h (T), 45h (P); C

**EDT 313 Low-Cost Technology in Education**

Design and production of improved instructional materials using locally available inputs. Basic design principles and production strategies based on the ASSURE and ADDIE and other known models. Production, utilization and evaluation of low-cost instructional packages and for use of community resources.

15h (T), 45h (P); C

**EDT 314 Instructional Materials Design and Multimedia Application**

Instructional hardware design, components, structures operation and care in line with current situations in Nigeria. Interactive multimedia application of presentation software: Power point, digital editing and use of Liquid Crystal Display.

15h (T), 45h (P); C

**EDT 315 Distance Learning Models and Technologies**

2 Credits
Comparative approaches to distance learning models: historical background, open models and their technologies, associated problems, merits and philosophy. Situation similar to Nigeria will be explored closely; Youth and adult education skills, certification and technology used.
15h (T), 45h (P); C

**EDT 316**  
**Administration and Management of Learning Resource Centres**  
2 Credits  
The basic planning, administration and management principles will be applied to resource centre. Emphasis on the different types of budgeting, theories and practices of leadership, organizational structures and functions will be related to resource centres in Nigeria.
30h (T); C

**EDT 317**  
**Podcasting: Delivering Content with Audio and Video Podcasts**  
2 Credits  
Basics of podcasts (definition, searching for, subscribing to, listening to/watching). Audio and video editing skills for creating podcasts. Creation of audio and video podcasts. Advanced video projects containing PowerPoint slides, video, still shots, text and more.
15h (T); 45h (P); E

**EDT 318**  
**Managing Technology Resources for Education**  
2 Credits  
Installation, maintenance and troubleshooting of a variety of operating systems, data networks and distance learning systems in educational context. Focus on management, support, and delivery options.
30h (T); E

**EDT 319**  
**Internship in Educational Technology**  
2 Credits  
Guided and supervised observation and practice in the applications of technology to a specified educational setting. Emphasis on a practical application of knowledge and skills gained throughout the programme. Real-world, problem-solving project within work environment.
90h (P); E

**EDT 320**  
**Educational Broadcasting**  
2 Credits  
History, philosophy and techniques of education broadcasting are as related to radio and television in Nigeria. Design of storyboard and use of natural effects, editing and editorial processes and the structure of the broadcast media in Nigeria and other nations.
15h (T), 45h (P); C

**EDT 321**  
**Low-Cost Technology I**  
2 Credits
Basic assumption, instructional systems, basic processes of learning and instruction, intellectual skills and strategies, learning capabilities, tasks and job analysis, instructional sequence and events, media selection, performance assessment, instructional delivery systems and instructional evaluation.

15h (T), 45h (P); C

**EDT 322 Principles of Instruction**
2 Credits

30h (T); C

**EDT 323 School Resource Management**
2 Credits
Sources and uses of fiscal resources in education including underlying concepts from economic theory, the impact of values on fiscal policy, state funding formulas, and school budgeting and accounting practices on school resource management.

30h (T); E

**EDT 324 Computer Art, Animation and Visual Effects**
2 Credits
Advanced digital applications for producing educational films. Computer animation and visual effects, Working with 2-D and 3-D computer graphics within computer animation, visual effects and motion graphics in modeling, lighting, texturing, dynamics, character animation and motion capture. Visual effects feature in digital video, greenscreen studio production, compositing, rotoscoping and VFX animation.

90h (P); E

**EDT 325 Learning Management System (LMS)**
2 Credits
Concept of Learning Management System (LMS). Relevance of LMS to learners, teachers and institutions. Categories of LMS: proprietary (e.g. Blackboard) and free and open source (e.g.) Moodle. Practical hands-on experience on the application of LMS. Integration of other e-resources in LMS to create a communities of practice environment. LMS and Web 2.0.

15h (T) 45 (P); E

**EDT 326 Social Media in the Classroom**
2 Credits
Use of social media in education, including creating and maintaining social media, Nature and purpose of social media; Types of social media, social media promotion, social media disclosure guidelines, and ethics in educational use of social media.

15h (T), 45h (P); E

**EDT 327 Production Practical III**
2 Credits
Skills and attitudes acquired in the course and designed to identify and solve any related educational problem through the principles and practices of educational technology. Production seminar on approved topic with a view to producing the final creative instructional package.

90h (P); C

EDT 328 **Advanced Digital Capturing and Streaming** 2 Credits
Concepts of digital capturing and manipulations. Digital imaging and traditional photographic ideas with digital media. Use and functions of digital cameras, shooting techniques, editing operations and output options. Time-based media capture techniques and music streaming techniques. Application of photography software for online streaming
15h (T), 45h (P); E

EDT 329 **Fundamentals of Interactive Design** 2 Credits
Imaging software. Development of the basic skills needed to create digital graphic design. Software for the design solutions for various media applications such as print, web, and multimedia. Developing, designing and maintaining Web pages
15h (T), 45h (P); E

EDT 411 **Advanced Library Studies** 3 Credits
Ordering, documentation, indexing, classification, borrowing procedure, inter-library services, computerisation and other library machines, including ultra-forms, micro forms and internet/website as elements of globalise libraries.
15h (T), 45h (P); C PR: BET 202

EDT 412 **Instructional Materials Evaluation Techniques** 2 Credits
Overview of concepts of assessment, measurement, and evaluation. Evaluation approaches, techniques, tools, and philosophies as they apply to current and future applications of technology in educational environments. Evaluation for variety of technologies, strategies for evaluation, evaluation models, and identification of past and current trends in the use of technology to support learning.
30h (T); E

EDT 413 **Information Management and Technology** 2 Credits
Theories, principles and practises; gathering, processing, transmission and consumption, journalistic demands and ethics of information management will be examined. All forms of information storage and retrieval systems including the trade media, modern, photographic and reprographic systems are important requirement of the course.
30h (T); C

EDT 414 **Web-Based Multimedia Instruction** 2 Credits
Principles of design and development of multimedia for online education. Knowledge and skills on how to create, capture, prepare, and publish multi-media (textual, audio, video) products using a variety of multimedia authoring tools. Multi-media streaming.

15h (T), 45h (P); C

**EDT 415**  
**Mobile Appliances for Teaching and Learning**  
2 Credits
Introduction to mobile learning (m-learning). Types of mobile devices, types of mobile apps (Free and Commercial, Installed and cloud based SaaS, integrated, etc.), advantages and limitations of mobile learning, Web 2.0 technologies and mobile learning.

15h (T), 45h (P); C

**EDT 416**  
**Social Media for Learning**  
2 Credits
Collaborative and emergent pedagogies, tools, and theory related to the use of social media in learning environments. Hands-on experience with a variety of social media tools, create community of practice for learning, create a community-based resource, and have an opportunity to develop a global professional network for educational technologists.

30h (T); E

**EDT 417**  
**Research and Statistics in Educational Technology**  
2 Credits
Types of research in educational technology; design and development, descriptive, experimental. Methodological factors in educational technology research, and data collection in educational technology research. Analysis of educational technology research data (measure of central tendency and variability, one and two sample tests, confidence intervals, chi-square, etc.), using statistical software, and reporting educational technology research.

15h (T), 45h (P); E

**EDT 418**  
**Production Seminar**  
2 Credits
Relevant knowledge, skills and attitudes acquired in the course and designed to identify and solve any related educational problem through the principles and practices of educational technology. Production seminar on an approved topic with a view to producing the final creative instructional package.

90h (P); C

**EDT 419**  
**Community Resources and Development**  
2 Credits
Community resources identification, mobilization, recruitment and utilization principles and techniques; human and non-human resources as related to education and development. Practical approach to this course will be adopted based on mini-project techniques.

15h (T), 45h (P); C

**EDT 420**  
**Educational Technology III: Processes and Settings**  
2 Credits
Combined effects of technological processes and settings on the learning audience, given technological hardware and software. Associated theoretical background, moderating effects of newer technologies and human interference are important; man-machine interaction and requirements for technological evolution.

**EDT 421 Computer Mediated Communication and Collaboration**  2 Credits
Use of computer-mediated communication (CMC) and computer-supported collaborative learning (CSCL) in online learning environments. Exploration, assessment, and utilization of a variety of current and emerging Web 2.0 technologies to collaborate, share, and deliver effective instructional resources and instruction to f2f, blended or virtual learners.

**EDT 422 Emerging and Future Technology in Education**  2 Credits
Exploration of new scholarship, collaborative tools, social networking, wireless and mobile technologies, creative commons, fair use, user-created content, and virtual worlds. Multi-media presentation to analyze obsolete technology, assess new technology, and explore projections regarding future technological movements.

**EDT 423 Special Issues in Education Technology**  2 Credits

**EDT 424 Digital Video Fundamentals**  2 Credits
Introduction to video production. Skills needed for video production. Videography and video editing for the creation of video based projects (docUTMEntaries, independent films, training videos and broadcasting/electronic news gathering.

**EDT 425 Practices and Applications in Online Learning and ICT in Education**  2 Credits
Critical review of research in technology-supported education, development and design of successful education programmes, student success factors, creation and use of online courses. Solutions, best practices and emerging trends in integrating technology into the traditional and online classroom.
Summary

100 Level

Compulsory Courses: EDU 111(2), 112 (2), EDT 111 (2), EDT 112 (2), EDT 114 (2), EDT 118 (2), EDT 119 (2), EDT 124 (2)  
= 16 Credits

Required Courses: GNS 111 (2), GNS 112 (2) EDT 113 (2), EDT 115 (2), EDT 116 (2)  
= 10 Credits

Elective Courses: At least 8 Credits from the following: EDT 117 (2), EDT 120 (2), EDT 121 (2), EDT 122 (2), EDT 123 (2)  
= 8 Credits
Total = 34 Credits

200 Level

Compulsory Courses: EDU 211 (2), EDU 212 (2), EDU 213 (2), EDU 214 (2), EDU 215 (2), EDU 216 (2), EDT 203 (2), EDT 205 (2), EDT 214 (2), EDT 219 (2), EDT 221 (2), EDT 222 (2), EDT 226 (2)  
= 16 Credits

Required Courses: GNS 211 (2), GNS 212 (2) EDT 211 (2), EDT 212 (2), EDT 213 (2)  
= 10 Credits

Elective Courses: At least 6 Credits from the following: EDT 215 (2), EDT 216 (2), EDT 217 (2), EDT 218 (2), EDT 220 (2), EDT 221 (2), EDT 222 (2), EDT 223 (2), EDT 225 (2), EDT 224 (2), EDT 227 (2), EDT 228 (2), EDT 229 (2), EDT 230 (2)  
= 6 Credits
Total = 32 Credits

300 Level

Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2), EDT 303 (2), EDT 311 (2), EDT 312 (2), EDT 313 (2)  
= 22 Credits

Required Courses: EDT 314 (2), EDT 315 (2), EDT 316 (2), EDT 320 (2), GNS 311 (2)  
= 12 Credits

Electives Courses: Any 4 Credits out of the following: EDT 321 (2), EDT 322 (2),
EDT 327 (2) EDT 317 (2), EDT 318 (2), EDT 319 (2), EDT 323 (2),
EDT 324 (2) EDT 325 (2), EDT 326 (2), EDT 328 (2), EDT 329 (2)
= 4 Credits

Total = 38 Credits

400 Level

Compulsory Courses: EDU 411 (4), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2),
EDU 416 (2), EDU 499 (4), EDT 411 (2), EDT 413 (2), EDT 414 (2),
EDT 422 (2),

EDT 415 (2), EDT 418 (2), EDT 419 (2), EDT 420 (2),
= 34 Credits

Elective Courses: At least any 6 Credits out of the following:
(2), EDT 416 (2), EDT 417 (2), EDT 421 (2), EDT 423 (2),
EDT 412 (2), EDT 424 (2), EDT 425 (2),

= 6 Credits

Total = 40 Credits

Graduation Requirements

UTME = 144
DE = 114
B.Sc. (Ed.) Technology Education

TED 111 Introduction to Metal Working 2 Credits
Careers in metal work, safety rules and precautions in metal work laboratory. Basic hand tools and processes. Measuring and marking out.
30h (T); C

TED 112 Introduction to Woodworking Technology 2 Credits
Nature of wood; chemistry of wood; classification of wood into soft and hard wood; wood defects; hand tools, care and maintenance; annual rings and wood grains.
30h (T); C

TED 113 Building Construction I 2 Credits
30h (T); C

TED 114 Basic Technical Drawing 2 Credits
Basic drawing tools and equipment; uses and care. Basic drawing board practice. Free-hand sketching principles and processes. Roles of free-hand sketching in designing and communication in workshops. Drawing as a means of communication; Signs; Conventional representation Types of drawing; Lettering; Dimensioning; Construction; Reduction and Enlargement of Basic Geometric Shapes.
15h (T), 45h (P); R

TED 115 Electrical Technology 2 Credits
Nature of electricity, Electrical Units, Resistance and calculations-Ohms law, conductors and insulators, DC and DC circuits, concepts, components, units and theory. Circuit’s analysis, power concepts and use of instrUTMEnts, unit symbols and abbreviation.
30h (T) C

TED 116 Basic Fundamentals of Industrial and Technology Education 2 Credits
Types of industrial technology education at various levels of Nigerian educational system and a few selected countries e.g. Subjects offered in Nigeria schools such as Junior Secondary School (J.S.S) which Basic Technology and Senior Secondary School (S.S.S) Technical subjects such as Technical Drawing, Woodwork, Electronics/Electricity; Technical Colleges – Electrical installation, Painting, Painting and Decoration, etc; Polytechnics – Civil Engineering, Mechanical Engineering, etc. including Vocational Technical Education Courses (Courses Offered at Colleges of Education and Universities).
TED 117  Introduction to Automobile Technology  2 Credits
Chassis: Purpose, Types, and Construction of various vehicle layouts. Engine: Different parts of engines and their functions. Types of Engine, Working principles of spark-ignition; Engine Dismantling; cleaning and assembling of simple components. The basic principles of automobile engines; its power source, transmission and compression.
30h (T); C

TED 118  Introduction to Electronics  2 Credits
Thermionic values, semiconductor diodes, Power supplies – Rectification, filters, Amplification, Oscillators, Multi-vibrators, Radio Transmission and Receptions.
30h (T); C

TED 119  Introduction to Technology Education  2 Credits
Foundation of technical education: rationale, history and philosophy, vocational technical education. Vocational and technical institution and programmes. Career education, vocational and technology education in Nigeria; Prospects for National Development. Role of technology and its impact on educational development. Introduction to technology culture, requirements and expectations, the need for technology education for individual survival in the modern competitive world.
30h (T); E

TED 211  Building Construction II  2 Credits
Basic knowledge and skills in construction and finishing of simple building. Basic principles and methods of construction of foundation, methods of wall, floor, roof and stairway constructions. Introduction to parties associated with construction, introduction to methods of building (traditional building, conventional building, component building) building trades and roles, construction team and roles. Introduction to structural behavior, structural forces. Design factors in building, construction drawing and tools (site plan, plot plan, foundation plan, the elevations, electrical plan e.t.c.) shelters, sheds, and basic building operations.
30h (T); C

TED 212  Metalwork Technology II  2 Credits
Metal Precision measuring instrument and inspection gauges. Properties of metal, basic metal working processes. Introduction to machine tools.
30h (T); C

TED 213  Principles of Electricity  2 Credits
TED 214  Woodwork Technology II  
Carpentry and joinery. Machine wood working techniques; design of works and tools maintenance.  
30h (T); C

TED 215  Auto-Engines  
Principles of automotive technology. Types of automobile engines; construction of vehicle chassis and engines; engine cylinder arrangement. Differentiation of petrol and diesel engine, air and water cooled engines. Clutch and gearbox component and operating mechanisms. Functions of propeller shaft and universal joints. Introduction to engine problems, faults diagnosis and maintenance required. Decarburization of cylinder head, engine and valve timing.  
30h (T); C

TED 216  Technical Drawing II  
Fundamental concepts of pictorial, Isometric and oblique drawings; the characteristics and general application. Orthographic projection in first and third angles, multi-views and dimensioning.  
30h (T); C

TED 218  Industrial Safety Measures  
Safety measures in industrial layouts, accidents prevention, classes of fire and control, use of colours in the in industry in relation to safety. Equipment installation and operation repair and maintenance (types of maintenance). Safe handling of industrial materials. Pollution control chemicals and storage methods of promoting safety in the industry. Safety regulations and enforcement strategies.  
30h (T); C

TED 219  Electrostatics/ Electromagnetism  
Properties of electrostatics field, conductors in electrostatics field examples of potential difference, magnetic materials and their permeability, laws of electromagnetic induction, inductance, energy in inductors. Maxwell coulombs law.  
30h (T); E

TED 220  Materials Technology  
Introduction to types of materials for technological applications. Appropriate uses of wood, metals, plastics. Solid, liquid and gases for various technological applications. Ceramics, rubber, glass. Knowledge of various sources and properties of ceramics, rubbers and glass; methods of producing ceramics, rubbers and glass from their different sources known, the different constituents of glass and their different functions.  
30h (T); C
**TED 221**  Management of Technology Education Workshop                      2 Credits  
Planning, organizing and management of school workshop, organization structure and behavior principles and techniques of planning, organizing technical activities, manufacturing activities, utilization of resources for production including people; company structure, inventory of materials and tools/equipment, short and long term planning, human relation and industrial psychology, communication. Principles and Practices involved in the planning, organizing and control of school laboratories; responsibility of the school administrator and the teacher, selection and purchase of machine tools, equipment and materials; maintenance storage and control of machines.  
30h (T); C

**TED 222**  Land Surveying                                                2 Credits  
Instruments for chain surveying, chain surveying procedure, leveling principles and methods of reducing level readings, application of leveling construction, transverse surveying types and uses, chain and compass methods of transverse surveying. Theodolites types, uses and operation reporting survey findings and inferences.  
30h (T); C

**TED 223**  Quality Control                                               2 Credits  
30h (T); C

**TED 224**  Students Industrial Work Experience Scheme (SIWES)          3 Credits  
Basic principles and practice of organization of occupational experience programmes in an any established organization.  
135h (P); C

**NOTE:** All Courses and Summary of 100 level and 200 levels are the same for Automobile, Building, Metal work, Wood work, and Electrical/Electronic Options =79 Credits

**Automobile Option**

**TED 311**  Methods of Teaching Technology Education Courses             2 Credits

15h (T); C

TED 312 **Occupational Analysis**
2 Credits
Analysis – needs and uses, operation-basic analysis. Division of work-major/minor divisions, related information. Analysis and cause of study, vehicle of instruction, progress charts, instruction sheets, operation, assignment and information sheets. Dictionary of occupational titles.
30h (T); C

TED 313 **Improvisation of Laboratory Equipment**
2 Credits
Identification of typical laboratory equipment and their principle; construction and operation. Methods of replication with available materials. Design and production of simple laboratory equipment by use of available materials in the workshops. Use of alternative unavailable equipment and instruments (Students are to submit comprehensive typed report).
30h (T); C

TED 314 **Computer Application in Industry/ Technology**
3 Credits
Introduction to the basic principles and use of computer; types of systems used in production/ manufacturing-computer aided design, computer nUTMErical control, computer-aided manufacturing system, computer integrated manufacturing, computer controlled tools (equipment). Robotics technology. Advantages and disadvantages of computer use in industry
15h (T), 45h (P); C

TED 315 **Engineering Drawing**
3 Credits
15h (T), 45h (P); C

TED 316 **Architectural Graphics I**
3 Credits
Pencil types, uses and sharpening. Scale rule-reading, the scales and application, layout. Architectural signs and symbols. Architectural representation of various parts and elements of the building from foundation to the roof, representation of various
views of the building fronts, plan, sides, section. Basic concepts in design-direction of opening of doors and position of doors, levels of floor, beam representation, basic principles of dimensioning and lettering.

15h (T), 45h (P); C

TED 321 Auto-Technology Fundamentals and Transmission System 2 Credits
Introduction to operation, construction, and maintenance of clutch and gearbox (manual and automatic). Drive-shaft and transfer, differential and rear axles. Demonstrations on each component required. Functions and construction of transmission system: clutch, gearbox, propeller-shaft, universal-joints and rear-axles. Types of each component: faults, diagnosis and repairs.
30h (T); C

TED 322 Engine Lubrication and Cooling System 2 Credits
Introduction to engine lubrication and cooling systems. Principles of operations, testing methods, maintenance, service and repairs. Types of cooling and lubrication system. Lubricants: properties and applications in engines, gearboxes. Viscosity, viscosity-index and additives.
30h (T); C

TED 323 Fuel System and Carburetion 2 Credits
30h (T); C

TED 324 Auto-Shop Safety and High-Way Code 2 Credits
Fundamentals of automobile shop safety to include good and safe auto jacks, free air movement, control of used engine oil on the shop floor. Road signs and highway codes. Attention to manual and electrical signals when driving, proper overtaking and parking. Road communication and courtesy.
30h (T); C

TED 325 Braking, Steering and Suspension System 2 Credits
15h (T), 45h (P); C

TED 326 Power Engines 2 Credits

TED 304  
**Computer Application in Industry/ Technology**  
3 Credits  
Introduction to the basic principles and use of computer; types of systems used in production / manufacturing-computer aided design, computer numerical control, computer-aided manufacturing system, computer integrated manufacturing, computer controlled tools (equipment). Robotics technology. Advantages and disadvantages of computer use in industry.

15h (T); 45h (P); C

TED 411  
**Entrepreneurship in Technology Education**  
2 Credits  

30h (T); C

TED 412  
**Administration of Technology Education**  
2 Credits  
Philosophical, historical, social and psychological foundations underlying the organization, Administration and teaching of technology and practical arts education. Examination of existing patterns in Nigeria.

30h (T); C

TED 413  
**Emergent Problems in Technology Education**  
2 Credits  

30h (T); C

TED 414  
**Introduction to Financial Management**  
2 Credits  
TED 415  
**Course Construction for Technology Education**  
2 Credits  
Competency based and individualized approach to principles of course construction for technology education. Planning and preparing philosophical basis for instructional programmes. Techniques for selecting and organizing the essential materials for a course. Analysis for jobs and operation to determine the skills and related technical information needed for the processes of determining the course content. Writing and organizing the course of study, scheme of work and other instructional plans.  
30h (T); C

TED 416  
**Practical Project**  
3 Credits  
A practical project should be designed early in the beginning of the final year and should be executed within the full session. The design should be innovative design of educational and technical value that could be replacement of some imported technology. A well written report should be submitted along with drawings, sketches, photographs and other graphic representations or models as necessary.  
45h (P); C

TED 421  
**Compression Ignition Engines**  
2 Credits  
Compression ignition engines: four and two stroke cycles, merits and demerits. Types of combustion chambers and principles of operation of injector, pumps and nozzles.  
30h (T); C

TED 422  
**Thermodynamics**  
2 Credits  
30h (T); E

TED 423  
**Auto-Workshop Practice**  
2 Credits  
Engine re-conditioning and testing, use of cylinder-boring, honing machines. Uses of exhaust gas analysis, dwell-meter, vacuum-gauge, compression-gauge, stroboscopic tinning-light. Precision measurement of engine components (dial-indicator, vernier calipers, fault diagnosis and repairs, use of sensor and scan tools).  
30h (T); C

TED 424  
**Auto-Electrical System and Air Conditioning**  
2 Credits

30h (T); C

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TED 331</td>
<td>Building Construction</td>
<td>2</td>
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<tr>
<td></td>
<td>Excavation, soil survey: foundation, site explore trial pits and boreholes, soil classification, grading components classification of concrete foundation, detailing of reinforcement, preparation of bar bending schedule, layout of reinforcement, damp proof course, core floors, materials and purposes, basic substructure operation.</td>
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<td>TED 332</td>
<td>Building Services</td>
<td>2</td>
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<td>Drainage and sewage drawings and construction - open and close drainage and sewage testing , design, inspection, maintenance terms and applications, plumbing, water supply, treatment, electrical installation, lift installation and security service, fire risks and fighting.</td>
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<tr>
<td>TED 333</td>
<td>Building Construction Super Structures</td>
<td>2</td>
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<td>Basic superstructure operations, Bonds; manufacture of wall materials, types of walls, doors, windows, lintel, columns and beams, staircases, roofs ceiling, site construction; theory and practice. Doors and windows schedules.</td>
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<tr>
<td>TED 334</td>
<td>Building Finishes</td>
<td>2</td>
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<td></td>
<td>Wall plastering, Rendering, painting and decoration, materials tyro lean floor finishes- materials grading, mixing, construction methods, filing, ceiling finishes stair finishes, roof finishes.</td>
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<tr>
<td>TED 335</td>
<td>Building Materials</td>
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<td>Timber for building types, properties, conversion, preservation, uses of stones for building types, uses of terrazzo, marble, ceramics etc. brick and blocks, cement and concrete, setting, manufacture, components, materials for building, rubber and plastics etc.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>TED 336</td>
<td>Building Environments and Man</td>
<td>2</td>
</tr>
</tbody>
</table>

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456
Course is designed to equip the students with the necessary knowledge and skills that will enable them to teach and undertake the construction of simple buildings and the values of building environment to man including the aesthetics, convenience and the comfort that buildings provide. This will include planning, organization and preparation of site for simple projects.

**Ted 431 Advanced Building Technologies**  
2 Credits  
Maintenance, renovation and alterations in building including electrical, plumbing and structural faults and remedies, repairs and preventive measures. Administration and management of building construction sites, contracts and contracts and contracting-concepts and tendering, type and procedure. The Portland cement, types, characteristics and uses including laboratory tests for setting time, soundness, firmness, chemical composition test for concrete – strength, compression, tensile. Reinforcement in concrete. Pre and post tensioning of concrete structure, framed roof trusses in steel and timber. Pre-fab construction.

**Ted 432 Maintenance Technologies in Building**  
2 Credits  
Building maintenance geological faults which cause defects in foundation of building; effect of foundation failure on the walls defects in brick, sand-crate wall, block wall, masonry wall and penetrating damp on structure and fabric e.g walls, floors, roofs.

**Ted 433 Architectural Graphics II**  
2 Credits  
Drawing instruments, tools and equipment. Presentation drawing (isometric, oblique and perspective) projection plan, block plan, site plan, front elevation, rear elevation, right side elevation, left side elevation, roof plan, water fall, assess road, e.t.c) sectioning and Architectural model.

Electrical / Electronic Option

**Ted 341 Electrical Machines I**  
2 Credits  
Principles of operation and construction. Types (DC and AC) and application, single and poly phase machines. Construction and operational principles, types e.g. DC and dc motors etc. series, compound and about motors and the applications, inductive motors, motor stating circuits. Principles of construction, types and functions of transformers. Iron and copper losses and their control, transformer cooling systems. Power factor corrections and transformer efficiency. Current and voltage transformers and their applications.

**Ted 342 Electrical Machines II**  
2 Credits
Power and supply systems, economics of system (current and voltage relationships in a transmission line) substation distribution, booster transformers, switch gears, power utilization. Detailed study of main features of DC machines. Generated e.m.f and terminal voltage speed/torque, characteristics of generators/motors, installing lamp High voltage lamps, public address systems and alarm system.

15h (T), 45h (P); C

TED 343  Electrical Measurements and Instrumentation  2 Credits
Principles of operation, uses and care of various electrical and electronics measuring instruments both analogue and digital. Such as moving coiled motors, electrostatics voltmeters, dynamometers, etc.
30h (T); C

TED 344  Electrical Installation  2 Credits
Safety and fundamental knowledge and experiences required to function and survive within and outside the workshop while handling electrical tools and equipment. Formularization with use and care of installation tools. Electrical regulations and its importance in electrical installation. Electricity conductors and insulators. Cable- size, types, selection, joints, and maintenance. Lighting sub-circuits in domestic buildings, wiring systems generally. PVC insulated and sheathed systems, sheathed cable in wood casing, faults, protective devices- diversity factor, rating factor, fuse, circuit breakers, earthing etc.
15h (T), 45h (P); C

TED 345  Electrical Communication Network  2 Credits
Telephone – basic transmission theory, the construction of telephone cables (internal and external), the effect of cables on analogue and digital signals. Function and trunk circuits. Mobile systems example, ship radio, telephone, satellite dishes. Data transmission Telephony, Multiplex systems, Radio transmission – propagation of radio, radio receivers. Logic circuits, switching logic, digital mathematics logic circuit, synthesis, electronic switches and memory devices.
15h (T), 45h (P); C

TED 346  Radios and Television Servicing  2 Credits
30h (T); C

TED 347  Semiconductor Devices  2 Credits
Detailed treatment of semi-conductors material, (types and operation) dropping, single and multistage amplifiers BJT operation, characteristics and equivalent circuits.
TED 441  Electronic Technologies  2 Credits
Transistors as an amplifier, biasing arrangements, classes of amplifier (A, B, and C), push pull, and complimentary circuits, amplifier coupling methods, operational amplifiers, impedance matching, integrated circuits, field effect transistors, uni-junction transistors, measuring instrument, oscilloscope, ammeter, voltmeter, multi-meter and transistor tester. Transducers – microphone, loudspeakers, photosensitive devices, and photograph pick up. Electric control circuits, definition and remote control for doors and T.V. Negative and positive feedback, oscillators, multi-vibrators, and logic circuits.
30h (T); C

TED 442  Electronic Communications Network  2 Credits
Basic principle of electronics communication, amplitude modulation FM band systems, waveguide, ionosphere/troposphere, Dipole/antenna, reflectors/directors, MW propagation.
30h (T); C

TED 443  Transmission and Generation of Electricity  2 Credits
Types of generating hydro-electric, thermal, solar and nuclear power Plants
Transmission parameters, selection of transmission voltage principles of transmission conductors and insulators their properties and use. Overhead lines, supports, wood and concrete poles, pylons, consumer service and distribution. General layout from generation to consumer.
30h (T); C

TED 444  Electrical Installation II  2 Credits
30h (T); C

TED 445  Digital Electronics  2 Credits
The number system, logic symbols, functions and conventions; basic Boolean operations; integrated logic circuits, flip-flops and latches; counters, shift register, and shift register counters, computer arithmetic; interfacing. Industrial visitation is one of the requirements to earn a grade in this course.
30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TED 446</td>
<td>Electrical Drafting</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Electrical symbols, design of lighting features in buildings, costing estimating. Electrical regulatory bodies. The IEE Regulations, method of installing High voltage lamps, public address systems, alarm systems.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>TED 447</td>
<td>Radio and Television</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Electronic Communication systems, modulation and demodulation, RF &amp; IF amplifiers, Transmission and propagation or electromagnetic waves AM &amp; FM receivers, television fundamentals, pictures transmission colour standards trouble-shooting and servicing of radio and television receivers.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>TED 351</td>
<td>Welding Processes</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>TED 352</td>
<td>Mechanics of Machine</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>15h (T), 45h (P); C</td>
<td></td>
</tr>
<tr>
<td>TED 353</td>
<td>Manufacturing Processes (Metals)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Understanding of mass production including automatic processes and procedures, jigs and fixtures, interchangeable parts, time and motion study, economics of scale, quality control flow of materials, limits and fits, precision measuring equipment production-general procedure in producing typical metal products-design, estimating and purchasing of materials, and stages involved in changing the materials to a finished product.</td>
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</tr>
<tr>
<td></td>
<td>30h (T); C</td>
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</tr>
<tr>
<td>TED 354</td>
<td>Elements of Design</td>
<td>2</td>
</tr>
</tbody>
</table>
Philosophy and practice of mechanical design, and nature of design activity, the design process,- identification, definition, form, analysis, optimization, evaluation and presentation. Factors affecting design-strength, materials, aesthetics, costs, etc. introduction to design for manufacture, standard machine. Elements and production techniques, case study and projection.

30h (T); C

TED 355 Foundry Technology  2 Credits
Foundry tools, equipment and processes, pattern, materials designs and making. Safety in casting power metallurgy. Various metal casting processes.
15h (T), 45h (P); E

TED 356 Machine Operation I  2 Credits
Skills of operations and safety precautions regarding workshop power machines in doing jobs. Power Hack saw: its operation and use for cutting. The Drill Press: its operation and drilling procedure. The main parts of the drill press. Lathe operations: facing, turning between centers, centre drilling, boring etc. care and maintenance of each machine. Safety rules and precaution in the use of power machines. The names and functions of the main parts of the machines should be studied.
15h (T), 45h (P); R

TED 357 Machine Tool Processes I  2 Credits
Basic lathe work and milling operations. Safety precautions and maintenance of machine tools. Work holding techniques, jigs and fixtures.
15h (T), 45h (P); C

TED 358 Machine Tool Processes II  2 Credits
15h (T); 45h (P); E

TED 451 Machine Operation II  2 Credits
Parts of operation, turning taper and cutting of screw threads on the lathe. Knurling and milling on the lathe. Different types of lathes as found in school workshops an industry. Power machines- milling or shaping machines used in industry. Instruction should include their types, parts, operations, and maintenance and safety rules.
30h (T); C

TED 452 Machine Tool Processes III  2 Credits
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TED 453</td>
<td>Mechanical Engineering Drawing II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Sectional and auxiliary projections. Interjection surfaces, tolerances and machine/assembly drawing.</td>
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<tr>
<td>TED 454</td>
<td>Mechanical Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Application of engineering theories to machine components design. Analysis and evaluation procedures in creative design. Use of codes, charts, tables, standards and empirical data. Presentation of design portfolio.</td>
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<tr>
<td>TED 455</td>
<td>Metal Stamping</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Press work in metalworking. Die making and design, calculations involved press work.</td>
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</tr>
</tbody>
</table>

**Wood work Technology Option**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TED 361</td>
<td>Introduction to Wood work Practice</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Design and construction of simple living room furniture (use of machines and hand tools).</td>
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</tr>
<tr>
<td>TED 362</td>
<td>Manufacturing Processes (Wood work)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Understanding manufacturing process in woodworking industry ; elements of furniture manufacturing such as design principles and elements ; basic processes of design development, planning and construction, general procedure in manufacturing furniture items. Mass production of furniture items, Mass production in school workshop, students will be required to design and produce furniture items embodying carcass and frame construction. It will also involve understanding of elementary upholstery- upholstery tools and materials, making of padded seats and chairs and furniture.</td>
<td></td>
</tr>
<tr>
<td>TED 363</td>
<td>Machines (Woodwork Technology)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Powered tools- power hand planes, route planes, jig saw, portable powered saw, orbital sander, belt sander, drill press and spray gun. Design and construction of stools, chairs, tables, cabinets, cupboard, etc. abrasives and abrading , adhesives.</td>
<td></td>
</tr>
<tr>
<td>TED 364</td>
<td>Structural fittings and Fixtures</td>
<td>2</td>
</tr>
</tbody>
</table>
Ironmongery in wood construction technology and building technology to include soak away, septic tank, basic plumbing and general construction.

30h (T); C

**TED 365**  **Advanced Woodwork Technology**  **2 Credits**  
Carpentry and joinery and machine wood working techniques with emphasis of design work and maintenance of tools.  
30h (T), 45h (P); C

**TED 366**  **Wood Finishes**  **2 Credits**  
Up to date hand and powered methods of finishing and advanced normal techniques. There will also be laboratory work on difficult finishes.  
30h (T); R

**TED 356**  **Tools and Devices**  **2 Credits**  
Woodworking tools and equipment used in school workshop operations, portable powered tools, their uses and safety precautions.  
30h (T); C

**TED 461**  **Introduction to Upholstery**  **2 Credits**  
Furniture covering and recovering practical work on the techniques of furniture designing and re-designing upholstery; tools used in upholstery work. The techniques of shoring installation, stuffing, trimming, sewing, blind stitching and fabric selection.  
15h (T); C

**TED 462**  **Forestry Studies**  **2 Credits**  
An appreciation of the various techniques of obtaining timber from forest. Also, a study of the organs of forestry management in Nigeria. Forestry definitions and concepts, Types of forests, Importance of forestry and forest. Laws, institutions and people. Concept of sustainability in forest management.  
30h (T); C

**TED 463**  **Maintenance of Woodwork Equipment**  **2 Credits**  
Emphasis on safety regulation in machine wood working workshop. Requirements of different types of woodworking machines and their component parts. Changing of belts cutter plates and related maintenance tasks.  
15h (T), 45h (P); C

**TED 464**  **Wood Design and Construction**  **2 Credits**
Contemporary and advanced methods of wood joinery, structural wood working to include: Designing and construction of doors, windows, molding staircases etc. design and research appreciation in the manufacture of school based projects by individual student.

15h (T), 45h (P); C
Summary
For all Technology Education Options

100 Level
Compulsory Courses: EDU111 (2), 112 (2), TED 111(2), TED 112(2), TED 113(2), TED 114(2), TED 115(2), TED 117 (2), TED 118(2) = 18 Credits

Required Courses: GNS 111(2) and GNS 112(2), CHE 101 (2), CHE 102 (2), PHY115 (2), MAT 113 (2) = 14 Credits

Elective Courses: TED 116 (2), TED 119(2) = 4 Credits
Total = 36 Credits

200 LEVEL
Compulsory Courses: EDU 211 (2), EDU 212 (2), EDU 213 (2), EDU 214 (2), EDU 215 (2), EDU 216(2) TED 201(2), TED 212(2), TED 213 (2), TED 214 (2), TED 215 (2), TED 216 (2), TED 217 (2), TED 218 (2), TED 224(3) = 31 Credits

Required Courses: GNS 211,(2) 212(2), TED 219 (2), (2), TED 213 (2), TED 214(2), TED 215(2), TED 220(2), TED 221 (2), TED 215 (2) = 10 Credits

Electives Courses: Any 2 Credits from the following: TED 220(2), TED 221 (2), TED 215 (2) = 2 Credits
Total = 40 Credits

NOTE: All Courses and Summary of 100 level and 200 level are the same for Automobile, Building, Metal work, Wood work, and Electrical/Electronic Options =79 Credits

Automobile Option

300 Level
Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2) = 27 Credits
Required Courses: GNS 311(2), TED 321(2), 322(2), 321(2) 323(2), 325(2), 314(2)  
= 10 Credits  
Total = 37 Credits

400 Level
Compulsory Courses: EDU 411 (2), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2),  
(2), EDU 499(4), TED 421(2), 412(2), 413(2), 414(2), 415(2),  
= 31 Credits

Required Courses: TED 423 (2), 421 (2)  
=4 Credits

Elective Courses: TED 421(2) TED 422(2)  
=4 Credits

Graduation Requirement
UTME = 141  
DE = 109

Building Technology Option
300 Level
Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2)  
(2). TED 304(3), TED 306(3), TED 310(2), TED 312 (2),  
= 20 Credits

Required Courses: GNS 311(2) TED 314 (2), TED 315 (2), TED 317(2), 319 (2)  
= 10 Credits

Electives Courses: Any 6 of the following:  
TED 302  
(2), TED 303(2), TED 305 (2), TED 313 (3),  
= 6 Credits  
Total = 36 Credits

NOTE: TED 311(2), TED 312(2) TED 313(2), TED 314(3), TED 315(3), and TED 316(3) are offered as Compulsory or  
Required for all options (15 Credits)
400 Level

Compulsory Courses: EDU 411 (2), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2), EDU 416 (2), EDU 499 (4), TED 430 (3), TED 431 (2), TED 432 (2), TED 433 (2), TED 434 (2), TED 435 (3), TED 436 (2), TED 437 (2), TED 438 (2), TED 439 (2), TED 440 (2), TED 441 (2), TED 442 (2), TED 443 (2), TED 444 (2), TED 445 (2), TED 446 (2), TED 447 (2)

Required Courses: TED 432 (2), TED 433 (2), TED 434 (2), TED 435 (3), TED 436 (2), TED 437 (2), TED 438 (2), TED 439 (2), TED 440 (2), TED 441 (2), TED 442 (2), TED 443 (2), TED 444 (2), TED 445 (2), TED 446 (2), TED 447 (2)

Total = 21 Credits

Graduation Requirement
UTME = 142
DE = 112

Electrical/Electronic Option

300 Level

Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2), EDU 316 (2), TED 331 (2), TED 332 (2), TED 333 (2), TED 334 (3), TED 335 (2), TED 336 (2), TED 331 (2)

Required Course: GNS 311 (2)

Electives Courses: Any 4 credits from the following TED 332 (2), TED 333 (2), TED 334 (2), TED 335 (3), TED 336 (2), TED 325 (2), TED 326 (2), TED 327 (2)

Total = 26 Credits

400 Level

Compulsory Courses: EDU 411 (2), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2), EDU 499 (4), TED 431 (2), TED 441 (2), TED 442 (2), TED 443 (2), TED 444 (2), TED 445 (2), TED 446 (2), TED 447 (2)

Required Courses: TED 443 (2), TED 444 (2), TED 445 (2), TED 446 (2), TED 447 (2)

Total = 10 Credits

Graduation Requirements
UTME = 148
DE = 116
Wood Work Technology Option

Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2), EDU 316 (2), TED 301 (2), TED 304 (3), TED 350 (2), TED 351 (2)

Required Courses: GNS 311(2) TED 306 (3) TED 353 (2), TED 354 (2), TED 355 (2)

Electives Courses: Any 6 Credits out of the following: TED 302 (2), TED 303(2), TED 305 (2), TED 313 (3), TED 352 (2), TED 356 (2)

Total = 37 Credits

Graduation Requirements

UTME = 148 Credits
DE = 108

Metal Work Option

300 Level

Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2), TED 304(3), TED 306 (3) TED 340 (2), TED 341 (2), TED 342 (2)

Required Courses: GNS 311(2) TED 343 (2), TED 344 (2), TED 345 (2), TED 346 (2)

Total = 37 Credits
Electives Courses:  Any 4 credits from the following: TED 302 (2), TED 303 (2), TED 305 (2), TED 313 (3) = 4 Credits

Total = 40 Credits

400 Level

Compulsory Courses: EDU 411 (4), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2), EDU 416 (2), EDU 499 (4) = 18 Credits

Required Courses: TED 451 (2), TED 452 (2), TED 453 (2), TED 454 (2), TED 455 (2) = 10 Credits

Total = 28 Credits

Graduation Requirements
UTME = 142 Credits
DE = 102
B.Sc. (Ed.) Computer Science

SUMMARY

100 LEVEL

Compulsory Courses: EDU 111 (2), EDU 112 (2), CSC 111 (2), CSC 112 (2) = 4 Credits

Required Courses: MAT 111(3), MAT 112 (3), MAT 113(3), MAT 114(3), PHY 115(2), PHY 191(1), PHY 192(1), PBL 101(3), STA 121(2), TCS 102(2), ICS 101(2), ICS 102(2), GNS 111(2), GNS 112(2) = 40 Credits

200 LEVEL

Compulsory Courses: EDU 211 (2), EDU 212 (2), EDU 213 (2), EDU 214 (2), EDU 215 (2), CSC 211(3), CSC 212(3), CSC 213(3), CSC 214(2), CSC 216(2), CSC 220 (2), CSC 222(3), CSC 224(2) = 20 Credits

Required Courses: MAT 201(3), MAT 211(3), MAT 213(2), MAT 206(2), MAC 236(2), STA 221(3), PHY 252(2), GNS 211(2), GNS 212(2) = 23 Credits

Elective Courses: CSC 218(3), MAT 208(2), STA 222(3) = 8 Credits (Optional for Computer Science students).

Direct Entry Students: GNS 111(2), GNS 112(2) = 4 Credits

300 LEVEL

Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2), CSC 321(3), CSC 322(3), CSC 325(2), CSC 314(2), CSC 315(2), CSC 311 (2), CSC 323(2), CSC 316(2), CSC 317(3), CSC 320(2), CSC 326(2), CSC 328(2), CSC 330(3), CSC 332(2) = 32 Credits

Required Courses: PHY 357(2), ICS 302(2), LIS 310(0), GNS 311 (2), GSE 301(3) = 9 Credits

Electives Courses: CSC 318(2), CSC 319(2), ICS 314(2), CSC 334(2), CSC 336(2), CSC 338(2), TCS 204(3), TCS 205(3), MAT 309(3), MAT 318(3) = 24 Credits (Optional for Computer Science students).
### 400 level

**Compulsory Courses:**
- EDU 411 (4)
- EDU 412 (2)
- EDU 413 (2)
- EDU 414 (2)
- EDU 415 (2)
- EDU 416 (2)
- EDU 499 (4)
- CSC 420(2)
- CSC 421(3)
- CSC 422(2)
- CSC 423(2)
- CSC 424(3)
- CSC 425(2)
- CSC 426(2)
- CSC 427(2)
- CSC 429(2)
- CSC 431(2)
- CSC 428(2)
- CSC 430(2)
- CSC 432(2)
- CSC 433(2)
- CSC 434(2)
- CSC 435(2)
- CSC 436(2)
- CSC 437(2)
- CSC 438(3)
- CSC 439(2)
- CSC 440(2)
- CSC 441(2)
- CSC 442(2)
- TCS 301(2)
- TCS 305(2)
- TCS 311(2)
- TCS 312(2)
- TCS 411(3)
- MAT 425(3)

= **25 Credits**

**Elective Courses:**
- CSC 428(2)
- CSC 430(2)
- CSC 432(2)
- CSC 433(2)
- CSC 434(2)
- CSC 435(2)
- CSC 436(2)
- CSC 437(2)
- CSC 438(3)
- CSC 439(2)
- CSC 440(2)
- CSC 441(2)
- CSC 442(2)
- TCS 301(2)
- TCS 305(2)
- TCS 311(2)
- TCS 312(2)
- TCS 411(3)

= **43 Credits**

**NOTE:** Detailed course description relating to Mathematics, Physics, Statistics and Computer Science may be found in the appropriate sections of the Undergraduate Academic Programme in the Faculty of Physical Sciences and Faculty of Computer and Information Sciences.

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**DEPARTMENT OF HEALTH PROMOTION AND ENVIRONMENTAL HEALTH EDUCATION**

**Course Description**

**B.Sc. (Ed.) Health Education**

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HED 106</td>
<td>Health Education as a Profession</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Meaning and definition, general scope, purpose, history, growth and development, and career involvement in health education.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>HED 107</td>
<td>Basic Activities in Elementary Health Education</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Introduction to basic activities of daily living such as simple first-aid, accident prevention and the processes of disease and occurrences in man.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>HED 108</td>
<td>Introduction to Health Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
</tbody>
</table>
HED 109  Personal Health  3 Credits
Meaning and concept, selected topics related to posture, care of parts of the body, clothing, personality, personal health needs, problems and determinants of health status.  45h (T); E

HED 110  Organisational and Administration of School Health Programme  2 Credits
Consideration of the principles of programme planning, implementation and evaluation in relation to school health programme  30h(T); C

HED 111  Family Life Education  2 Credits
Includes Sociological, psychological aspects of human sexuality in relation to family life, courtship, marriage, reproduction, child. Sex education in the home, school community.  30h(T); C

HKE 109  Elementary Skills and Tecinques of Team and Individual Sports  2 Credits
Development of practical and theoretical methods of acquiring basic skills and techniques in athletics, fitness and gymnastics.  15h (T); 90h(P); E

HED 112  Emergency Care and First Aid I  3 Credits
Stresses the importance and relevance of safety programmes in schools, fundamentals of safe living, (home, occupational, public disaster preparedness) methods of safety practices, immediate and temporary care giving in emergency situation involving accidents or sudden illness, symptoms and appropriate treatment of wounds, injuries, cessation of breathing, poisoning etc. Schools, community and industrial safety practices will be emphasized.  45h (T); E

HED 113  Introduction to Human Biology  3 Credits
Introduction to the human and plant anatomy. The Psychology of the organs and systems in human body. These are to be taught in their relations to the health of the weakness and the environment in which man is existing.  45h (T); C

HED 114  International Health and Health Agencies  3 Credits
This course will examine the organization and functions of international health bodies such as WHO, UNICEF, UNESCO, USAID, CIDA, DANIDA, NORIDA, UNDP, UNRO, UNEP. International health regulations will also be addressed.

**45h (T); E**

**HED 204 Community Health and Health Education** 3 Credits
Factors that contribute to healthy home environment, school environment and community. Protecting, disposal and problems of housing. Personal responsibilities at promoting healthy home, school and community. Familiarization with community health agencies. Functions of World Health Organization (WHO).

**45h (T); C**

**HED 205 Foods and Nutrition I** 2 Credits
Overview of the science of nutrition and its relationship to health. Classification of foods, digestion, absorption and energy metabolism.

**30h (T); C**

**HED 206 Foods and Nutrition II** 2 Credits
Study of factors affecting food habits and behaviour and means of modifying them to promote health. Identification of common nutritional diseases, causes and prevention.

**30h (T); C**

**HED 207 Elementary Human Anatomy and Physiology for Health Education** 3 Credits
Review of the anatomy and physiology of the human body cells, tissues, organs and systems. Relationship of human anatomy and physiology to physical and health education.

**45h (T); C**

**HED 208 Communicable and Non-Communicable Diseases** 2 Credits
Important diseases: causes, modes of transmission, prevention, and control measures.

**30h (T); E**

**HED 209 Career Opportunities in Health** 3 Credits
A survey of the broad scope of occupations and the world of work. Career and manpower development and trends within the health chapter. The place of health education choosing a setting, entering the profession and being mobile.

**45h (T); R**

**HED 210 Field Experiences in Health Education (SIWES)** 2 Credits
Health/safety education practicum in a recognized setting provides opportunities for the improvement and efficiency of health promotion services. Designing a health education programmes.
30h (T); R

HED 211 Environmental Sanitation 2 Credits
Health consideration of water resources, waste disposal systems, municipal sanitation, housing, pollution, vector control and consequences of poor municipal control. Including field trips.
30h (T); E

HED 212 Atmospheric Pollution 2 Credits
Descriptive Discussion of the sources, effects and states of pollutants in the atmosphere, interaction pollutants and weather systems, including and precipitation, ozone destruction, air pollution policy regulation.
30h (T); E

HED 213 Social and Emotional Health 3 Credits
30h (T); R

HKE 203 Kinesiology 3 Credits
Structure and functions of the human biology as applied to movements especially in sports. Analysis of movements in relation to the work of muscles in various joints. Strengthening exercises for weak muscles.
45h (T); E

HED 301 Health Problems of School Children 3 Credits
Causes, prevention and control of childhood diseases and other health problems of school children. Overview of the work of pioneers in the conquest of diseases; Louis Pasteur, Leeuwenhoek, Jenner, etc.
45h (T); C

HED 303 Curriculum Development and Evaluation of School Health Programmes 3 Credits
Development of health education curriculum for elementary, secondary and teacher training colleges. Evaluation of the contents, methods and objectives of the curriculum.
HED 304 Mental Health Education 2 Credits
Consideration of Mental health problems in school children, child development and mental health. Identification and discussion of the values of self-knowledge and self-esteem, positive interaction with others and problem solving in character development and adjustment to real life situations. Role of the teacher in reducing mental health problems in school.
30h (T); C

HED 305 School Health Programme 2 Credits
School health in relation to school populations. Functions and responsibilities of stakeholders in the delivery of school health programme and services to concerned individuals who are ill at school. Recognition of children’s health problems, treatment or referral to the appropriate authority and an analysis of interrelationship in the overall school programme delivery.
30h (T); C

HED 306 Comparative Health Care System 2 Credits
Examination of different health delivery system – (EPI, PPFN) as practiced in other countries of the world. Identification of advantages and disadvantages.
30h (T); E

HED 307 Health Counseling 2 Credits
Roles of interpersonal relations in behavioural change, organizational change and health education. Examination of the ways in which the health professional can detect the needs of students or clients and work co-operatively with them in meeting their needs.
30h (T); E

HED 308 Health for Atypical Child 2 Credits
Identifying daily living problems of children with special needs and students in educational institutions. Means of solving these problems. Roles and responsibilities of the individual teacher, head teacher, parent and community in solving these problem.
30h (T); E

HED 309 Environmental Health 2 Credits
Definition of Environmental Health, types of environment with common health problems associated with mismanagement of environment. Implication of environment on human health.
30h (T); E

HED 311 Occupational Health and Safety 2 Credits
Emphasis to be placed on the background of occupational health. Why has this area of health (environment) education become imperative with special emphasis to industrial revolution in Europe, America and Nigeria. Analysis of the roles and responsibilities of the employer and employee. Specific health precautions strategies in named occupational settings.

30h (T); E

HED 312  **Primary Health Care System and Protective Health**  3 Credits
Introduction of primary health care system. The principles underlying the operation of primary health care and the operational format of the programme. Nature and types of the programme. Emphasis will be placed on the relationship between the various aids and members of staff and the various levels associated with the primary health care system. A broad analysis of the goals of PHC, its origin, objectives, goals, contents and implementation worldwide with particular emphasis on the West African sub-region and Nigeria. The achievements, prospects, problems and the way forward.

45h (T); E

HED 315  **Vital Statistics and Records in Schools and Hospitals**  3 Credits
Concepts, types and significance of health records and statistics in health education. Roles of statistics in health promotion. Methods of keeping health records in schools and hospitals. Indicators of health status, interpretation of quantitative and qualitative data in determining health status of individual, group and community health for National Development. The course will also deals with different ways of presenting health information including diagramatic presentation of data.

45h (T); C

HED 402  **Administration of School Health Programme**  1 Credits
Consideration of the principles of programme planning, implementation and evaluation in relation to school health programme.

30h (T); C

HED 403  **Theory and Practice of Health Communications**  3 Credits
Socio-economic characteristics, superstitions and human relations factors as influence on health communications.

45h (T); C

HED 404  **Sex Education**  3 Credits
Anatomy and physiology of male and female reproductive systems, conception, prenatal developmental, labour and delivery. Family planning and psychosexual development. Healthy family and parenthood.

45h (T); C

HED 405  **Drug Education**  3 Credits
Consideration of social, psychological, cultural and pharmacological factors associated with drugs. Other addictions and dependencies.

45h (T); C

**HED 406 Consumer Health Education**

3 Credits
Consideration of the social, economic and political forces that have led to the development of consumerism in the health sectors. Current issues and trends in consumer participation in health planning; implication for community organization and health education.

45h (T); C

**HED 407 Seminar in Health Education**

1 Credit
Group discussion on special topics relating to problems facing Health Education in the society, schools, colleges and universities.

15h (T); C

**HED 408 Legal Aspects of Health Care**

2 Credits
Legal problems that may confront health care personnel, rights of patients, crimes, record keeping, wills, liability for negligence and malpractice.

30h (T); E

**HED 409 Nigerian National Health Policy**

2 Credits
Nigerian health policies since independence. Implications for preventive care, financing and public health education.

30h (T); E

**HED 410 Population Education**

2 Credits
Introduction to the methods of teaching population issues, the problems of over population, under population, demography, birth control, and distribution in the population and implications.

30h (T); E

**HED 412 Health and Illness Behaviour**

2 Credits
Course addressing the sociological basis of health behaviour. The influence of the immediate and extended family, the cultural imperatives and traditional values on illness practices within the Nigerian society. The course will also evaluate cultural implications of the health behaviour model. Socio-cultural meaning of health and illness. The concepts of health status. Analysis of behaviour considered appropriate.

30h (T); E
EDU 499 Research Project in Human Kinetics Education 4 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department culminating in the submission of a project.

180h (T); C

SUMMARY

B.Sc.(Ed.) Health Education

100 Level

Compulsory Courses: EDU 111(2), 112(2), HED 106(2), 107(2), 108(3), 110(2), 111(2)
=15 Credits

Required Courses: GNS 111(2), 112(2),
=4 Credits

Elective Courses: HED 109(3), 112(3), 113(3), 114(3), HKE 109(3)
=15 Credits

TOTAL = 34 Credits

200 Level

Compulsory Courses: EDU 211(2), 212(2), 213(3), 214(2), HED 204(3), 205(2), 206(2), 207(3)
= 18 Credits

Required Courses: GNS 211(2), 212(2), HED 209(2), 210(2), 213(3)
=11 Credits

Elective Courses: HED 208(2), HED 211(2), 212(2), HKE 203(3)
=9 Credits

TOTAL = 38 Credits

DE TOTAL = 42 Credits

300 LEVEL

Compulsory Courses: EDU 311(2), 312(2), 313(2), 314(2), 315(2), 316(3), HED 301(3), 303(3), 305(2), 315(3)
= 26 Credits

Required Courses: GNS 311(2), GSE 301(3),
= 5 Credits

Elective Courses: HED 306(2), 307(2), 308(2), 309(2), 311(2), 312(3)
=13 Credits
TOTAL = 44 Credits

400 LEVEL

Compulsory Courses: EDU 411(4), 412(2), 413(2), 414(2), 415(2), 416(2), 499(4), HED 402(2), 404(3), 405(3), 406(3), 407(1) =33 Credits

Required Courses: HED 410(2) =2 Credits

Elective Courses: HED 408(2), 409(2), 412(2) =6 Credits

TOTAL = 41 Credits
DEPARTMENT OF HUMAN KINETICS EDUCATION

Course Description

B.Sc. (Ed.) Human Kinetics

HKE 101 Introduction to Outdoor Sports and Practice of Minor Games 2 Credits
Analysis of elements of school competitive and recreational education programmes with emphasis on activity types, techniques of organization and administration. Study and demonstration of local minor games and dances, lead up games and rhythmic movements for classroom activities.
30h (T); R

HKE 102 Introduction to Exercise and Sports Science 2 Credits
Theoretical and practical learning in the separate disciplines of sport physiology, sports psychology, sports medicine, biomechanics and motor learning. Development and Application of interdisciplinary, problem-based approach to performance analysis and performance improvement.
30h (T); E

HKE 103 Control of skill behaviour 2 Credits
Meaning, definition and concepts of motor skill will be explained. The structure, function of Central Nervous System (CNS), neurons and information process will be discussed.
30h (T); R

HKE 104 Physical Growth and Development 2 Credits
Differentiating growth from development. Factors that affect growth. Evaluation of the progress of growth and development with emphasis on physical, social, emotional and intellectual changes. Development of basic motor activities, fitness and maintenance of self awareness in performing both locomotor non-locomotor skills.
30h(T); R

HKE 105 Introduction to Human Kinetics Education and Fitness 2 Credits
15h (T), 45h(P); C

HKE 106 History and Career Prospects in Human Kinetics Education 2 Credits
Meaning, general scope, purpose, history, growth and development of human kinetics as a profession; with an overview of theoretical and practical dimensions of ancient and modern physical education with emphasis on early personalities and their contributions. Career opportunities and career assessment of human kinetics education.

30h (T); C

**HKE 107 Introduction to Sport Facilities, Organization and Administration of Intramural Sports**

2 Credits

An understanding of types, construction, purchase and maintenance of Sports facilities and equipment. An introduction to different types of organization and administration techniques in past and contemporary societies including Nigeria. A practical involvement of student in process or organizing/administration of sports.

15h (T), 45h(P); R

**HKE 108 Introduction to Movement Analysis**

2 Credits

Role of muscles in movement production; role of skeletal system and joints in contribution to movement, analysis of specific movement in games, sports and physical training activities.

30h(T); E

**HKE 109 Elementary Skills and Techniques of Sports and Games I**

3 Credits

Practical and theoretical approaches to understanding leading, to acquisition of basic manipulative skills, rules and regulations guiding competitive participation will be introduced in each of athletics, gymnastics and fitness.

135 (P); E

**HKE 110 Elementary Skills and Techniques of Sports & Games II**

3 Credits

Physical practice and analytical techniques to equip students with understanding and capacity to demonstrate and coach basic tactics; abilities in error detection and correction in the acquisition of motor skills. Promote an appreciation of the health aspects, the history, tradition, rules and etiquette of the game, and emphasize the potential for life-time involvement in Ayo, Dance and Draught.

135(P); E

**HKE 111 Basic Human Nutrition**

1 Credit

Food and Nutrition for sportsman, caloric requirement, right composition of nutrition, improvement of performance through recreation and sports.

15h (T); E
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<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HKE 114</td>
<td>Emergency Care and First Aid in Sports</td>
<td>2</td>
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<td></td>
<td>Immediate care of injuries-conditioning, massaging. Discussion will cover principles of accidents and their preventions, major sports injuries will be discussed e.g. Fractures.</td>
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<tr>
<td>HKE 115</td>
<td>Social and Psychological Foundations of Sports and Physical Education</td>
<td>2</td>
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<tr>
<td></td>
<td>An introduction to the social and psychological dimensions of sports practice and implications for recreational and competitive participation.</td>
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<td>30h (T); C</td>
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<tr>
<td>HKE 116</td>
<td>Skills and Techniques of Combat sport</td>
<td>1</td>
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<td>Physical practice and analytical techniques to equip students with understanding and capacity to demonstrate and coach basic tactics. It will also enhance students’ abilities in error detection and correction in the acquisition of motor skills. Finally, this course will promote an appreciation of the health aspects, the history, tradition, rules and etiquette of the game, and emphasize the potential for life-time involvement in the sport. (2hours practical a week)</td>
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<td>45h (P); E</td>
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<tr>
<td>HKE 117</td>
<td>Exercise, Rehabilitation and Health Promotion</td>
<td>2</td>
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<td>This course will provide a multidisciplinary approach to understanding of the current epidemic of obesity and eating disorders in Nigeria and its impact on disease development throughout the lifespan; Emphasis will be on body weight intervention and prevention strategies especially with the development of lifestyle exercise habits. Rehabilitation of victims of violence through sports, recreation and fitness programmes in the community.</td>
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<td>15h(T), 45h (P); E</td>
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<tr>
<td>HKE 201</td>
<td>Historical and Philosophical Foundations of Human Kinetics Education</td>
<td>2</td>
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<td>Origin, growth and development of selected sports, historical and philosophical perspectives and promotion of physical education programmes in selected and modern nations. Sport bodies and associations.</td>
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<td>30h (T); C</td>
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<tr>
<td>HKE 202</td>
<td>Psychological Foundation of Physical Education</td>
<td>2</td>
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<td>An introductory approach to concepts of psychological aspects of physical education and sports, attraction to high performance in sports recognition and approval of groups.</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>HKE 203</td>
<td>Kinesiology</td>
<td>2</td>
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<td>Structure and functions of the human body as applied to movements especially in sports. Element of efficient movement and the relationship between movement and concept of good posture. Analysis of movements in relation to the work of muscle in various joints. Strengthening exercises for weak muscles.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>HKE 204</td>
<td>Human Anatomy and Physiology for Sports performance</td>
<td>2</td>
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<td>Definition of anatomy and physiology, anatomical structure in relation to human body, body planes, structure of major bones of the body, physiology of human movement.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>HKE 205</td>
<td>Nutrition and Sports Performance</td>
<td>2</td>
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<td>A study of nutrients and food needs of people especially as it applies to athletic performance. Basic food groups, importance of adequate diet in health, disease and sports. Planning the athlete’s diet, content and meals, nutritional demand during exercise and training. Factors affecting food selection; supplementation.</td>
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<td>30h (T); C</td>
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<tr>
<td>HKE 206</td>
<td>Pedagogical Elements of Sports</td>
<td>2</td>
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<td></td>
<td>Investigation and determination of character of athletic training, its principles, instrument, condition and methodic rules. Pedagogies of sports in Europe and America. A study of the origin, development and philosophical foundations of sports and physical and health education times and contemporary Nigeria.</td>
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<tr>
<td>HKE 207</td>
<td>Driver Education</td>
<td>2</td>
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<td>Acquisition of vehicle driving skills with some knowledge of essential parts responsible for the function of motor vehicles. A study of road signs and road safety precautions and causes and prevention of automobile accident.</td>
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<td>15h (T) 45h (P); E</td>
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<tr>
<td>HKE 210</td>
<td>Fitness for Life</td>
<td>2</td>
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<td>Practical experiences in variables essential for fitness: cardio-respiratory and muscular endurance, strength, agility, etc.</td>
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<td>15h (T), 45h (P); E</td>
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<tr>
<td>HKE 211</td>
<td>Practical Coaching and Officiating in Sports and Games</td>
<td>2</td>
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<td>Skills involved in coaching and officiating of selected officiating in contemporary times. Practicum will also be undertaken in selected sports; and officiating clinics will be organized to promote entrepreneurial skills development.</td>
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<td>90h (P); R</td>
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</tbody>
</table>
EDU 213  Subject Methodology I (Human Kinetics Education)  2 Credits
Aims and objectives of teaching a selected subject. Approaches to teaching the selected subjects. Trends in curricular reforms in the selected subjects. Lesson notes preparation and appropriate peer teaching exercise, with emphasis on Human Kinetics Education. 30h (T); C

HKE 214  Skills and Techniques of Swimming  1 Credit
This course introduces students to the main components of aquatics. It will equip them in understanding the basic execution of the various swimming strokes. Students will develop the ability to identify and correct errors in the execution of swimming skills and be introduced to the basic aspects of water safety and life saving skills. (2 practical hours a week) 45h (P); C

HKE 215  Skills and Techniques of Track and Field II  1 Credit
This course introduces students to the science of track and field. They will be introduced to all track and field events and the progressions associated with each event. Students will be expected to illustrate basic movements for each event and analyze skill movements for all track and field events. (2 practical hours a week) 45h (P); C

HKE 216  Gymnastics II  1 Credit
Introduction to main components of gymnastic activities; understanding of the basic execution of the various gymnastic activities. Students will develop their ability to identify and correct errors in the execution of gymnastic skills and be introduced to the basic aspects of safety skills. (2 practical hours a week) 45h (P); C

HKE 217  Skills and Techniques of Basketball I  1 Credit
Practical and theoretical approaches to acquisition of skills needed for playing and officiating of sports of Basketball (2 practical hours a week) 45h (P); C

HKE 218  Skills and Techniques of Soccer I  1 Credit
Practical and theoretical approaches to acquisition of skills needed for playing and officiating of sports of Soccer. (1 theory, 2 practical hours a week) 45h (P); C

HKE 219  Skills and Techniques of Volleyball I  1 Credit
Practical and theoretical approaches to acquisition of skills needed for playing and officiating of sports of Volleyball (2 practical hours a week)

45h (P); C

HED 206  **Food and Nutrition II**  2 Credits
Factors affecting food habit and behaviour and means of modifying them to promote health. Identification of common nutritional diseases, causes and prevention.

30h (T); E

HED 208  **Communicable and Non-communicable Diseases**  2 Credits
Meaning of Communicable and Non-Communicable diseases, causes, types, signs and symptoms of each, prevention, care and management.

30h(T); E

HKE 301  **Problems of Physical and Health Education**  2 Credits
Problems facing Human kinetics Education in the society; schools, colleges and universities. Theories of Play, Recreation and Physical Education, Sports and Movement Education. Contraints to Physical movement and its health implications.

30h (T); R

HKE 302  **Introduction to Exercise Physiology**  2 Credits
Body organs and systems and their reaction to different exercise programmes. Short and long range effects of exercise on muscular, respiratory, circulatory and digestive systems. Application of Physiological Principles to the development of physical activities and sports skills.

30h (T); C

HKE 304  **Measurement and Evaluation in Human Kinetics Education**  3 Credits

45h (T); C

HKE 305  **Administration of Human Kinetics Education and Sports**  2 Credits

30h (T); C

HKE 309  **Sports and the Society**  2 Credits
Role of games, play, dance and sports in Nigeria culture. Fundamental social processes and social values of sports in contemporary society.

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>HKE 310</td>
<td>Advanced Fitness</td>
<td>2</td>
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<td>Practical experience in fitness and Health Analysis of the effects of fitness on body weight, BMI and health.</td>
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<td>90h (P); E</td>
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<tr>
<td>HKE 314</td>
<td>Advanced Skills and Techniques of Handball</td>
<td>1</td>
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<td>Combining physical and analytical techniques to assist students to understand and execute hockey skills, enhance their abilities and in error detection and correction, and understand apply the strategies to the offensive, neutral, and defensive zones. It will also assist students to develop the ability to coach and officiate in handball game (2 practical hours a week).</td>
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<tr>
<td>HKE 315</td>
<td>Advanced Skills and Techniques of Coaching in Tennis</td>
<td>1</td>
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<td>Physical practice and analytical techniques to equip students with understanding and capacity to play, coach and officiate the sport of Tennis. Abilities in error detection and correction in the acquisition of motor skills. Promotion of appreciation of the health aspects, the history, tradition, rules and etiquette of the game, and emphasize the potential for life-time involvement in the sport.</td>
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<td>45h (P); C</td>
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<tr>
<td>HKE 316</td>
<td>Advanced Skills and Techniques of Hockey</td>
<td>1</td>
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<td></td>
<td>Combining physical and analytical techniques to assist students to understand and execute hockey skills, enhance their abilities and in error detection and correction, and understand apply the strategies to the offensive, neutral, and defensive zones. It will also assist students to develop the ability to coach and officiate in hockey game (2 practical hours a week).</td>
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<td>45h (P); C</td>
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<tr>
<td>HKE 317</td>
<td>Curriculum studies in Physical and Health Education</td>
<td>2</td>
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<td>Methodical education of physical activities and sports, the aims, contents, organization and control of teaching physical education and sports, age group concept and continuous programme or basic concepts. Factor affecting planning, organization and development of physical education and sports programmes. Analysis of physical education Curriculum in the Nigerian Education system.</td>
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<td>30h (T); E</td>
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<tr>
<td>HKE 318</td>
<td>Physiological and Artificial Limitations to Sports</td>
<td>2</td>
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<tr>
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<td>Participation in sports to physical development and of body build and functions of men and women, physiological capacities of men and women, sports injuries peculiar to women, possibility of masculinization of women through sports and their effects on reproductive systems of men and women</td>
<td></td>
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<td>30h(T); E</td>
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</tbody>
</table>
HKE 319  Motor Learning and Human Performance   2 Credits
Introduction to the principles and concepts of motor learning. Definition of skills. Different ways by which skills are acquired. Role of sensory
organ in the acquisition of skills. Terminologies in motor learning.
30h (T); R

HKE 321  Advanced Skills and Techniques in Athletics II      1 Credit
Combination of physical practice and analytical techniques to equip students with understanding and capacity to participate, coach and
officiate in athletics. Abilities in error detection an appreciation of the health aspects, the history, tradition, rules and etiquette of the game and
emphasize the potential for life-time involvement in the sport.
(2 practical hours a week)
45h (P); C

HKE 322  Advanced Skills and techniques of Coaching in Badminton        1 Credit
Combination of physical practice and analytical techniques to equip students with understanding and capacity to play, coach and officiate in the
sport of Badminton; enhance students’ abilities in error detection and correction in the acquisition of skills and techniques of the game.
Promotion of health aspects, the history, tradition, rules and etiquette of the game, and emphasize the potential for life-time involvement in the
sport. (2 practical hours a week)
45h (P); C

HKE 323  Advanced Skills and Techniques of Basketball II     1 Credit
Individual offensive and defensive skills, application of mental and physical training principles by which basketball performance can be
enhanced, rules of the game, and awareness of strategic concepts by which individuals and teams compete. Students also develop coaching and
officiating skills for playing the game. (2 practical hours a week)
45h (P); C

HKE 326  Sports and Ageing                                                   2 Credits
Concept of ageing theories and specialization of ageing problems and needs aged people, rationale for sports and recreation for the aged people.
Guidelines for P.E/sports programme for ageing will be fully discussed.
30h (T); E

HED 304  Mental Health Education           2 Credits
Meaning of mental health, determinants of mental health status, characteristics of a mentally healthy person, identification and discussion of the
values of self-knowledge, self-esteem, positive interaction with others through physical activity. The role of the teacher in reducing mental
health problems in school.
30h (T); E
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HED 305</td>
<td>School Health Programme</td>
<td>2</td>
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<tr>
<td></td>
<td>Children’s health in schools, meaning of School Health Programme, recognition of children’s health problems, treatment or referral to the appropriate authority.</td>
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<tr>
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<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>HKE 401</td>
<td>Psychology of Coaching</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Theories and principles of coaching games and sports event and dealing with athletes, psyching up for games, superstitious beliefs about performances, psychometrics, sports performance and the coach.</td>
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<tr>
<td></td>
<td>30h (T); R</td>
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<tr>
<td>HKE 403</td>
<td>Adapted Human Kinetics Education</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Methods of teaching human kinetics education to students with special needs. Suitable exercise for different types of students with special needs, organization of classes and assessment of progress therapeutic exercises.</td>
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<tr>
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<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>HKE 404</td>
<td>Dance</td>
<td>1</td>
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<tr>
<td></td>
<td>45h (P); E</td>
<td></td>
</tr>
<tr>
<td>HKE 407</td>
<td>Seminar in Human Kinetics Education</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Presentation of Seminars on selected research topics relating to problems facing Human Kinetics Education in the society: schools, colleges and universities.</td>
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<tr>
<td></td>
<td>45h (T); C</td>
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<tr>
<td>HKE 410</td>
<td>Applied Fitness</td>
<td>2</td>
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<tr>
<td></td>
<td>Practical demonstration of fitness programme for: young, elderly persons, women, obese and rehabilitation. Relationship between aging and incidence of degenerative and hypokinetic diseases (hypertension, low back pain, myocardial infarction and mobility problems) and management.</td>
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</tr>
<tr>
<td></td>
<td>15h (T), 45h (P); C</td>
<td></td>
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<tr>
<td>HKE 411</td>
<td>Prevention and Care of Athletic Injuries</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Causes, diagnosis, treatment, prevention and rehabilitation of common athletic injuries. Practical and theoretical aspects of massage, taping and bandaging; diet and conditioning of various physical therapeutic procedures.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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</tr>
<tr>
<td>HKE 412</td>
<td>Introduction to Biomechanics</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>15h (T), 45h (P); R</td>
<td></td>
</tr>
<tr>
<td>HKE 413</td>
<td>Community Recreation</td>
<td>2</td>
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<tr>
<td></td>
<td>Needs for and importance of community recreation in modern day living. Concepts of the organization and administration of outdoor education programmes in the school and community. Camping, leadership and citizenship training.</td>
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<tr>
<td></td>
<td>30h (T); R</td>
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<tr>
<td>HKE 414</td>
<td>Advanced Skills and Techniques of Coaching in Squash</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Physical practice and analytical techniques; capacity to play and coach the sport of squash. Abilities in error detection and correction in the acquisition of motor skills. Finally, this course will promote an appreciation of the health aspects, the history, tradition, rules and etiquette of the game, and emphasize the potential for life-time involvement in the sport. (2 practical hours a week)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>45h (P); C</td>
<td></td>
</tr>
<tr>
<td>HKE 415</td>
<td>Advanced Skills and techniques of Coaching in Cricket</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Physical practice and analytical techniques to equip students with understanding and capacity to play the sport of Cricket. It will also enhance students’ abilities in error detection and correction in the acquisition of motor skills. Appreciation of the health aspects, the history, tradition, rules and etiquette of the game, and emphasize the potential for life-time involvement in the sport. (2 practical hours a week)</td>
<td></td>
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<tr>
<td></td>
<td>45h (P); C</td>
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</tr>
<tr>
<td>HKE 416</td>
<td>Advanced Skills and Techniques of Coaching in Table Tennis</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>This course will combine physical practice and analytical techniques to assist students with their understanding and their capacity to play the sport of Table Tennis. It will also enhance students’ abilities in error detection and correction in the acquisition of motor skills. Finally, this course will promote an appreciation of the health aspects, the history, tradition, rules and etiquette of the game, and emphasize the potential for life-time involvement in the sport. (2 practical hours a week)</td>
<td></td>
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<tr>
<td></td>
<td>45h (P); C</td>
<td></td>
</tr>
<tr>
<td>HKE 417</td>
<td>Advanced Skills and Techniques of Athletics II</td>
<td>1</td>
</tr>
</tbody>
</table>
Improvement of individual skills, application of mental and physical training principles by which athletic performance can be enhanced, rules of the events, and awareness of strategic concepts by which individuals and teams compete. Students also develop coaching and officiating skills involved in competition and officiating. (2 practical hours a week)

**HKE 418**  
**Advanced Skills and Coaching in Soccer II**  
1 Credit  
Physical practice and analytical techniques to equip students with understanding and their capacity to play the sport of squash. It will also enhance students’ abilities in error detection and correction in the acquisition of motor skills. Finally, this course will promote an appreciation of the health aspects, the history, tradition, rules and etiquette of the game, and emphasize the potential for life-time involvement in the sport. (2 practical hours a week)

45h (P); C

**HKE 419**  
**Advanced Skills and Coaching in Volley Ball II**  
1 Credit  
Physical practice and analytical techniques to equip students with their understanding and their capacity to play the sport of Volleyball. It will also enhance students’ abilities in error detection and correction in the acquisition of motor skills. Appreciation of the health aspects, the history, tradition, rules and etiquette of the game, and emphasize the potential for life-time involvement in the sport. (2 practical hours a week)

45h (P); C

**HKE 420**  
**Supervision of School Health and Physical Education Programme**  
2 Credits  
Practical means of planning and implementing school health and physical education in schools. This will include policy making, methods and facilities for the implementation of school health and physical education.

30h (T); R

**EDU 499**  
**Research Project in Human Kinetics Education**  
4 Credits  
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department culminating in the submission of a project.

180h (T); C

**SUMMARY**

B.Sc. (Ed.) Human Kinetics

100 LEVEL
Compulsory Courses:  
EDU 111(2), 112(2), HKE 105(2), 106(2), 107(2), 109(2) 111(1) 113(1), 115(2)  
= 18 Credits

Required Courses:  
GNS 111(2), 112(2), HKE 101(2), HKE 103(2), HKE 104(2),  
= 10 Credits

Elective Courses:  
HKE 102(2), HKE 112(1), HKE 118(1), HKE 114(1), HKE 116(1),  
HED 107(2) HED 109(2), CHM 101(2), HKE 119(2)  
= 16 Credits

TOTAL = 44 Credits

200 LEVEL

Compulsory Courses:  
EDU 211(2), 212(2), EDU 213(2), 214(2), EDU 215(2),HKE 201(2),  
202(2), 203(2), 204(2) 205(2), HKE 214(1), HKE 215(1), 216 (1), 217 (1), 218 (1), 219 (1)  
= 26 Credits

Required Courses:  
GNS 211(2), GNS 212(2), HKE 211(2), 206(2),  
= 8 Credits

Elective Courses:  
EDU 216(2),HKE 207(2), 210(2), HED 206(2), 208(2)  
= 10 Credits

Direct Entry Students:  
GNS 111(2), 112(2)  
TOTAL UTME = 44 Credits  
DE = 48 Credits

300 LEVEL

Compulsory Courses:  
EDU 311(2), 312(2), 313(2), 314(2), 315 (2), 316(3), HKE 302(3),  
311(1), 312(1), 313(1), 314(1) 315(1), 316(1)  
27 Credits

Required Courses:  
GNS 311 (2), GSE 301(3), HKE 301(2), HKE 307 (2), 315(2)  
= 11 Credits

Elective Courses:  
At least 4 Credits from HKE 306(2), 309 (2), 310(2), 317 (2),  
304(2), 305(2)  
= 12 Credits

TOTAL = 50 Credits
400 LEVEL


Required Courses: HKE 401(2), HKE 403 (2), HKE 411(2), 412(2) = 8 Credits

Elective Courses: HKE 404(1), 410(2), 413(2), 414(1) EDU 417(2) = 8 Credits

TOTAL= 41 Credits

Graduation Requirements:
UTME = 128 Credits
Direct = 100 Credits

DEPARTMENT OF SOCIAL SCIENCES EDUCATION

SSE 111 Elements of Social Studies 2 Credits
Introduction of students to social study. It emphasizes the field. The philosophy behind its introduction, the rationale, general and specific objectives, its evolution, scope and sequence are given specific attention.
30h (T); R

SSE 102 Introduction to Nigerian Social Life and Culture 2 Credits
History and social studies relationships. Use of historiography in social studies, social interactions in early Nigeria up to 1500. Social studies topics in world history (the modern world) peoples of Nigeria. Concepts of culture and patterns of culture in Nigeria;
30h (T); R

SSE 113 Introductions to Social Studies and Nation Building 2 Credits
Analysis of the concepts of development, self reliance, Education and national building. The philosophy of social studies; Civic rights and responsibilities (means and ends in development) Social institutions (patterns, structures and functions).
30h (T); R

SSE 122 Family- Base of Structure of Society 2 Credits
Nature, types and structure of the family; problem of living in the family. Family as a micro-society; some social institutions that are family based.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SSE 123</td>
<td>Introduction to Nigeria Cultural Environment</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Man as the focus of social studies. Socialization agencies and institutions; marriage, religion, health, legal and civic rights and responsibilities.</td>
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<tr>
<td>SSE 124</td>
<td>The Structure and Characteristics of Man's Space</td>
<td>2</td>
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<tr>
<td></td>
<td>The earth, the atmosphere: hydrospheric space and lithospheric space. An analysis of space in individuals and space abstract.</td>
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<tr>
<td>SSE 135</td>
<td>Socio-Economic Environments of Nigeria</td>
<td>2</td>
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<tr>
<td></td>
<td>Introduction to man's economic activities. Man and his needs and wants. Man and his ability to make choice; use of resources and spending money.</td>
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<tr>
<td>SSE 206</td>
<td>Culture and Social Stability</td>
<td>2</td>
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<tr>
<td>SSE 211</td>
<td>The Social Studies and Social Sciences</td>
<td>2</td>
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<tr>
<td></td>
<td>Detailed study of the relationship between social studies and its Foundation, disciplines like Economics, Geography, Political Science, Sociology and History,</td>
<td></td>
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<tr>
<td>SSE 212</td>
<td>Social Studies Education and Patterns of Nation Building</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Ideological basis of development Pattern of life in urban and rural areas, Co-operation and conflict; social attitudes of development; leadership, fellowship, and the consequences of these systems in development. Nation Building in multicultural setting</td>
<td></td>
</tr>
<tr>
<td>SSE 213</td>
<td>Social Interactions in Nigeria</td>
<td>2</td>
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<tr>
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<td>Social interactions in Nigeria 1500 – 1800 (Grassland Zone) 1500 - 1800 (Forest Zone) Political system in the pre-colonial Nigeria Social interactions in Nigeria 1914 – 1960</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>SSE 221</td>
<td>Nigeria: Socio-political Institution</td>
<td>2</td>
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<td></td>
<td>Nigerian culture, identity, socialization of man, marriage and kinship groups: primary, secondary and communities</td>
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<td></td>
<td>30h (T); R</td>
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<tr>
<td>SSE 222</td>
<td>The Socio-Economic Structure of Nigeria</td>
<td>2</td>
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<td></td>
<td>Marketing systems and organization. Prices and Income, Savings - why and how to save.</td>
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<td></td>
<td>30h (T); R</td>
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<tr>
<td>SSE 223</td>
<td>Teaching Social Studies in Senior Secondary Schools</td>
<td>2</td>
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<td></td>
<td>Techniques and Methods of imparting knowledge to the Junior Secondary School Student with emphases to the use of Inquiry techniques</td>
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<td>30h (T); R</td>
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<tr>
<td>SSE 224</td>
<td>Population and Economic Development in Nigeria</td>
<td>2</td>
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<tr>
<td></td>
<td>The concept of population and its relationship with economic development. The meaning of economic development as its relates to poverty, inequality and per capital income, the concept of population dynamics, birth rate death rate etc</td>
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<td></td>
<td>30h (T); R</td>
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<tr>
<td>SSE 232</td>
<td>Sociology of the Family</td>
<td>2</td>
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<tr>
<td></td>
<td>Analysis of the Principles of Kinship classifications and of the types and functions of marriage as a social institution. The family and its problems in Nigeria.</td>
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<td>30h (T); R</td>
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<tr>
<td>SSE 234</td>
<td>Nigeria Political Experience</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); R</td>
<td></td>
</tr>
<tr>
<td>SSE 311</td>
<td>Study of Event in Space</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Analysis of the nature, value and distribution of events in the atmospheric, hydrospheric and lithospheric environments.</td>
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</tr>
</tbody>
</table>
SSE 312  Politics, power and government in Nigeria  2 Credits
Study of politics, power and government. Forms of government: major generalization from political Science. Study of social order and its constituents
30h (T); R

SSE 313  Finance and Financial Institutions in Nigeria  2 Credits
Economic systems of Nigeria. Factors of Production, money, - history, functions and types.
30h (T); R

SSE 314  Nigerian Cultural Patterns and Historical Origin  2 Credits
Study of the Nigerian social and cultural relations. Sports, arts and culture. Utilization and conservation of Resources and loyalty to the nation.
30h (T); R

SSE 321  Nationalism and Patriotism in Nigeria  2 Credits
30h (T); R

SSE 322  Social Studies Education and Theories of Nation Building  2 Credits
Theories of self-reliance development. Social change alienation and personality. The role of religion in society; politics and political institutions, values technology and development education for place: a new dimension in social education
30h (T); R

SSE 323  Technology and Society  2 Credits
Analysis of Concepts of Values. Values vital to the acquisition of Science and Technology. Choice of values and direction of development. Utilization and conservation of the world resources.
30h (T); R

SSE 334  Comparative Trends in Social Studies Education  2 Credits
Comparative Study of trends in social studies among the member Countries that adopted the Africa Social- Studies Programme (ASSP) Trends in terms of aspired changes, issues the curriculum of social studies and actual classroom reaity.
30h (T); R

SSE 335  Labour and Labour Unions  2 Credits

30h (T); E

SSE 411  
**International and Multidimensional Interactions**  
2 Credits  
Concepts of world power and types. Nigeria in international politics and economic collaborations. International understanding through social studies.  
30h (T); R

SSE 412  
**Social Studies Education, Problems and Prospects of Nation Building**  
2 Credits  
30h (T); R

SSE 413  
**Social Issues as Emerging Priorities for Social Studies Education**  
2 Credits  
Analysis of social group and organisation and issues relating to such collective behaviours as terrorism, riots, thuggery, smuggling, alcoholism, drug abuse, social deliverance and other causes such as inequity, gender, under-representation of minorities, under utilisation of skills, Religions intolerance, Cultism etc.  
30h (T); R

SSE 414  
**Marriage and Kinship**  
2 Credits  
Analysis of the concept of marriage, the rationale for marriage, preparation for marriage, courtship dating, family trees and lines of descendant, blood and marriage relationship in the family.  
30h (T); R

SSE 415  
**Social Studies Theories, Resources and Strategies**  
2 Credits  
Analysis of various theories and conception of social studies. Types of resources - human, material, natural, etc. the need for resource development and utilization; resource development centres: Various strategies for social studies.  
30h (T); R

SSE 421  
**Social Life and Party Politics in Nigeria**  
2 Credits  
Nigerian major political parties; the evolution of political Parties, functions and duties of arms of government. Forms of government  
30h (T); R
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SSE 422</td>
<td>Social-Economic Activities in Nigeria</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Economic activities performed by persons, firms and government; types of economy, banks and banking system. Nigeria and international economic organizations.</td>
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<tr>
<td></td>
<td>30h (T); R</td>
<td></td>
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<tr>
<td>SSE 432</td>
<td>Nigeria and Africa Organisations</td>
<td>2</td>
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<tr>
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<td>Examination of the origins, emergence and the roles of Africa Organisations which Nigeria is a member. The problems and prospects of the organisations to be analysed and evaluated.</td>
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<td>30h (T); R</td>
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<tr>
<td>SSE 433</td>
<td>Law and the Society</td>
<td>2</td>
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<tr>
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<td>Analysis of the terms related to law such as rules, regulations. Etc, Law in traditional Nigerian society, Modern laws, Law making process in the modern society, roles of laws in the society. Maintenance of law in the society. Law as a prevention of crimes and other misbehaviors in the society.</td>
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<td>30h (T); R</td>
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</tbody>
</table>
SUMMARY
B.Sc. Social Studies

100 LEVEL

Compulsory Courses: EDU111 (2), 112(2), SSE 111(2), 102(2), 113(2), 112 (2), 123(2)
  = 14 Credits

Required Courses: GNS111 (2), 112(2), SSE124 (2), 135(2)
  = 4 Credits

Elective Courses: Any 6 Credits out of ENG 118(3), 119(3)107 (3)
  TOTAL = 24 Credits

200 LEVEL

Compulsory Courses: EDU211 (2), 212(2), 213(2), 214 (2), 215 (2), SSE 206 (2), 211 (2), 212 (2), 213
(2), 221 (2) 232 (2) 234 (2)
  = 24 Credits

Required Courses: GNS 211 (2), 212 (2), SSE 223 (2), 224 (2)
  = 8 Credits

Elective Courses: EDU 216 (2), SSE 222 (2)
  = 4 Credits
  TOTAL = 36 Credits

Direct Entry Students: GNS111 (2), 112 (2)
  = 4 Credits
  TOTAL = 40 Credits

300 LEVEL

Compulsory Courses: EDU 311(2), 312 (2), 313 (2), 314 (2), 315 (2), 316 (2), SSE 311(2), 312 (2), 313
(2), 314 (2), 321 (2)
  = 22 Credits

Required Courses: GNS 311(2), GSE 301 (3), SSE 322 (2)
  = 7 Credits

Elective courses: At least four credits from:
SSE 323 (2), 334 (2), 335 (2)
  = 4 Credits
  TOTAL = 33 Credits

400 LEVEL

Compulsory Courses: EDU 411 (4), 412 (2), 413 (2), 414 (2), 415 (2), 416 (2), 499 (4), 411 (2), 412 (2), 413 (2), 414 (2)
  = 27 Credits
Required Courses: SSE 415 (2), 421 (2), 422 (2) = 6 Credits

Elective Courses: SSE 432 (2), 433 (2), EDU 417 (2) = 6 Credits
TOTAL = 39 Credits

Graduation Requirements:
UTME = 126 Credits
DIRECT = 108 Credits
Department of Science Education

Agricultural Education

**100 Level**

**Compulsory Courses:** EDU 111 (2), EDU 112 (2),

= 4 Credits

**Required Courses:** GNS 111 (2), GNS 112 (2), SED 121 (2), SED 122 (2), SED 123 (2),
(2), CHM 112 (2), CHM 115 (2), PLB 101 (2)

= 18 Credits

**Elective Courses:** PLB 108 (3), ZLY 103 (2), MAT 116 (2), ZLY 106 (2), PHY 115 (2)

= 11 Credits

Total = 35 Credits

**200 Level**

**Compulsory Courses:** EDU 211 (2), EDU 212 (2), EDU 213 (2), EDU 214 (2), EDU 215 (2),
(2), SED 211 (2).

= 14 Credits

**Required Courses:** GNS 211 (2), GNS 212 (2), AGY 205 (2), AGY 206 (2), AXR 201 (2),
(2), ANP 206 (2), AEF 201 (2), SED 226 (2), ABE 208 (2)

= 20 Credits

**Direct Entry Students:** GNS 111 (2) and GNS 112 (2)

**Elective Courses:** CPT 202 (2), AEF 202 (2), AHE 201 (2)

= 6 Credits

Total = 40 Credits

**300 Level**

**Compulsory Courses:** EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2)

= 12 Credits

**Required Courses:** GNS 311 (2), GSE 301 (3), ANP 301 (2), ANP 306 (3), ANP 309 (3),
(3), AGY 309 (3), AXR 301 (2), AGY 310 (2)

= 23 Credits

AGY 308
Elective Courses: Any 2 credits from:
(2), ABE 302 (2), ABE 321 (1) = 2 Credits

Total = 38 Credits

400 Level
Compulsory Courses: EDU 411 (4), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2),
(2), EDU 499 (4) = 20 Credits

Required Courses: ANP 404 (2), ANP 513 (3), AEF 517(3), AGY 516 (3), ANP 517 (2),
(2), SED 404 (2), SED 408 (2), SED 424 (2) SED 427 (2)
= 23 Credits

Elective Courses: Any 3 credits from:
AGY 514 (3), AXR 510 (3), AEF 504 (3).

= 3 Credits

Total = 47 Credits

Graduation Requirements
UTME = 160
DE = 121

Biology Education (Minor Subject: Chemistry)
100 Level
Compulsory Courses: EDU 111 (2), EDU 112 (2),
= 4 Credits

Required Courses: PLB 101 (2), PLB 108 (3), ZLY 106 (2), ZLY 103 (2), GNS 111 (2),
(2), CHM 101 (3), CHM 112 (2), CHM 115 (2), CHM 132 (2)
= 22 Credits

Elective Courses: Any 6 Credits from the following:
(1), CHM 116 (1), MAT 111 (3), MAT 112 (3), MAT 113 (3),
STA 121(2)

= 6 Credits

Total = 32 Credits

200 Level
Compulsory Courses: EDU 211 (2), EDU 212 (2), EDU 213 (2), EDU 214 (2), EDU 215 (2),
EDU 216 (2)

= 12 Credits
Required Courses: PLB 201 (3), PLB 202 (3), ZLY 201 (3), ZLY 202 (3), GNS 211 (2), GNS 212 (2), MCB 205 (3), MCB 206 (3), CHM 212 (3), CHM 235 (3) = 28 Credits

Direct Entry Students: GNS 111 (2) and GNS 112 (2), MAT 111 (3) and MAT 112 (3)

Elective Courses: Any 4 credits from the following:
(2), CHM 213 (2), MCB 204 (3), MCB 208 (3), PLB 203 (3), CHM 236 (2) = 4 Credits

Total = 44 Credits

300 Level

Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2), EDU 316 (2). = 12 Credits

Required Courses: PLB 307 (3), PLB 308 (3), ZLY 301 (3), ZLY 305 (3), GNS 311 (2), GSE 301 (3), CHM 331 (3) CHM 307 (2), MCB 315 (3), MCB 316 (3) = 28 Credits

Elective Courses: Any 6 Credits from the following:
(1), CHM 336 (2), CHM 328 (2) CHM 322 (2) PLB 304 (4)
= 6 Credits

Total = 46 Credits

400 Level

Compulsory Courses: EDU 411 (4), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2), EDU 416 (2), EDU 499 (4). = 18 Credits

Required Courses: SED 427 (2), PLB 302 (3), PLB 413 (3), ZLY 403 (3), ZLY 417 (3), MCB 406 (2), MCB 422 (3) = 19 Credits

Elective Courses: At least 10 Credits from:
PLB 303 (3), PLB 406 (3), ZLY 405 (3), SED 416 (2) = 10 Credits

Total = 47 Credits

Graduation requirements
UTME = 169
DE = 127
Chemistry Education (Minor Subject: Biology or Mathematics)

100 Level

**Compulsory Courses:**
EDU 111 (2), EDU 112 (2)  
= 4 Credits

**Required Courses:**
CHM 101 (3), CHM 112 (2), CHM 115 (2), CHM 116 (1), CHM 132 (2), GNS 111 (2)  
= 14 Credits

**Elective Courses:**
Any 7 credits from:
PLB 101 (3), PLB 108 (3), ZLY 101 (2), ZLY 103 (2), ZLY 106 (2)  
= 7 Credits

**OR**
MAT 111 (3), MAT 112 (3), MAT 113 (3), MAT 114 (2)  
= 7 Credits

Total = 25/25 credits

200 Level

**Compulsory Courses:**
EDU 211 (2), EDU 212 (2), EDU 213 (2), EDU 214 (2), EDU 215 (2), EDU 216 (2).  
= 12 Credits

**Required Courses:**
CHM 212 (3), CHM 213 (2), CHM 235 (3), CHM 236 (3), GNS 211 (2), GNS 212 (2)

**Direct Entry Students:**
GNS 111 (2) and GNS 112 (2)  
= 4 Credits

**Elective Courses:**
Any 6 credits from:
PLB 201 (3), PLB 202 (3), PLB 203 (3), ZLY 201 (3), ZLY 202 (3)  
= 6 Credits

**OR**
MAT 201 (3), MAT 208 (2), MAT 210 (2), MAT 211 (3), MAT 212 (3)  
= 6 Credits

Total = 33/33 Credits

300 Level
Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2), EDU 316 (2) = 12 Credits

Required Courses: CHM 307 (2), CHM 322 (2), CHM 324 (3), CHM 328 (2), CHM 329 (2), CHM 331 (3), GNS 311 (2), GSE 301 (3) = 19 Credits

Elective Courses: CHM 312 (2), CHM 345 (2), Any 6 credits from: PLB 307 (3), PLB 308 (3), ZLY 301 (3) = 4 Credits

OR
MAT 311 (3), MAT 325 (3), MAT 329 (3), MAT 332 (3), MAT 324 (3) = 6 Credits

Total = 41/41 Credits

400 Level
Compulsory Courses: EDU 411 (4), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2), EDU 499 (4) = 18 Credits

Required Courses: SED 427 (2), CHM 415 (2), CHM 423 (2), CHM 427 (2), CHM 438 (2) = 10 Credits

Elective Courses: Any 6 credits from: CHM 420 (2), CHM 424 (2), CHM 430 (2), CHM 440 (2), CHM 425 (2) = 6 Credits

Total = 34 Credits

Graduation Requirements
UTME: 133
DE: 104

Mathematics Education (Minor Subject: Chemistry, Economics, Physics or Statistics)

100 Level
Compulsory Courses: EDU 111 (2), EDU 112 (2), MAT 111(3), MAT 112(3), MAT 113(3),
MAT 114 (3),

Required Courses: GNS 111(2), GNS 112 (2),  
And
    CHM 101 (3), CHM 112 (2), CHM 116 (1)  
Or
    ECN 101(3), ECN 102 (3), ECN 103 (2), ECN 104 (2)  
Or
    PHY 114 (2), PHY 124 (3), PHY 191(1),  
Or
    STA 121 (2), STA 124 (3), STA 125 (3)

    = 4 Credits

And

    = 7 Credits

    = 10 Credits

    = 6 Credits

    = 8 Credits

Elective Courses:

    Any 2 credits from the following:
    CHM 115 (2), CHM 131 (1), CHM 132 (2)  
Or
    ECN 105(2)  
Or
    PHY 142 (2), PHY 152 (2)  
Or
    STA 131 (2), STA 132 (2)

    = 2 Credits

    = 2 Credits

    = 2 Credits

    = 2 Credits

Total = 31/32/30/32 Credits

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200 Level

Compulsory Courses: EDU211 (2), EDU 212 (2), EDU 213 (2), EDU 214 (2), EDU 215 (2), EDU 216 (2), MAT 211 (3), MAT 212 (3), MAT 213 (3)  

    = 21 Credits

Required Courses:

    GNS 211(2), GNS 212 (2), MAT 201 (3)  
And
    CHM 213(2), CHM 235 (2), CHM 212 (3),  
Or
    ECN 201(2), ECN 202 (2), ECN 203(2), ECN 204 (2)  
Or
    PHY 225 (2), PHY 291 (2), PHY 214 (2)

    = 7 Credits

    = 7 Credits

    = 8 Credits

    = 6 Credits
Or
MAT 201(2), STA 221(3) STA 222 (3) = 8 Credits

Direct Entry Students:
GNS 111 (2) and GNS 112 (2)

Elective Courses:
MAT 206 (2), MAT 208 (2) = 4 Credits
And
CHM 236 (3) = 3 Credits
Or
PHY 295 (1) = 1 Credit
Or
MAT 206 (2) MAT 208 (2) STA 223 (3) STA 224(3) = 10 Credits
Total = 35/36/34/36 Credits

300 Level
Compulsory Courses:
EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2), EDU 316 (2)
= 12 Credits

Required Courses:
GNS 311(2), GSE 301 (3), MAT 311 (3), MAT 324 (3), MAT 325 (3), MAT 332 (3), MAT 329 (3)
= 20 Credits

Elective Courses:
MAT 307 (3), MAT 309 (3), MAT 323 (3), MAT 326 (3), MAT 328 (3), MAT 321 (3), MAT 322 (3)
= 21 Credits
And
Any 6 credits (5 credits for physics) from:
CHM 307 (2), CHM 324 (3), CHM 328 (3)
= 6 Credits
Or
ECN 301(2), 302 (2), 303(2)
= 6 Credits
Or
PHY 303 (2), PHY 331 (3)
= 5 Credits
Or
STA 311 (2), STA 312 (3), STA 341 (3), STA 333 (2), STA 342 (3), STA 354 (3), STA 364 (3), STA 363 (3)
= 6 Credits
Total = 38/38/37/38 Credits
400 Level

**Compulsory Courses:** EDU 411 (4), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2), EDU 416 (2), EDU 499 (4), SED 427 (2) = 20 Credits

**Required Courses:** MAT 401(3), MAT 402(3), MAT 407 (3) = 9 Credits

**Electives Courses:** Any 6 credits from the following: MAT 403 (3), MAT 410 (3), MAT 413 (3), MAT 432 (3) = 6 Credits

**Total** = 32 Credits

**Graduation Requirements**
UTME: 136/138/133/138 Credits
DE: 101/103/98/103 Credits

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**B.Sc. (Ed.) courses for Physics Education (Minor Subject: Mathematics)**

**Summary**

**100 Level**

**Compulsory Courses:** EDU 111 (2), EDU 112 (2) = 4 Credits

**Required Courses:** PHY 115 (2), PHY 125 (3), PHY 142 (2), PHY 152 (3), PHY 191 (1), PHY 192 (1), MAT 111 (3), 112 (3), 113 (3), 114 (3), GNS 111 (2), 112 (2) = 28 Credits

**Total = 32 Credits**

**200 Level**

**Compulsory Courses:** EDU 211 (2), EDU 212 (2), EDU 213 (2), EDU 214 (2), EDU 215 (2), EDU 216 (2) =12 Credits

**Required Courses:** PHY 225 (2), PHY 214 (2), PHY 243 (2), PHY 291 (2), PHY 252 (2), PHY 253 (3), MAT 210 (3), GNS 211 (2), 212 (2) = 20 Credits

**Direct Entry Students:** GNS 111 (2) and GNS 112 (2)
Elective Courses: MAT 202 (3), MAT 203 (3), MAT 206 (2), MAT 208 (2), MAT 212 (3), MAT 213 (3), PHY 295 (1), PHY 296 (2),  
= 19 Credits  
Total = 32 Credits

300 Level

Compulsory Courses: EDU 311 (2), EDU 312 (2), EDU 313 (2), EDU 314 (2), EDU 315 (2), EDU 316 (2),  
= 12 Credits

Required Courses: PHY 324 (3), PHY 331 (3), PHY 342 (3), PHY 355 (2), PHY 357 (2), MAT 324 (3), GNS 311 (2), GSE 301 (2)  
= 20 Credits

= 29 Credits

Total = 32 Credits

400 Level

Compulsory Courses: EDU 411 (4), EDU 412 (2), EDU 413 (2), EDU 414 (2), EDU 415 (2), EDU 416 (2), EDU 499 (4), SED 427 (2)  
= 20 Credits

Required Courses: PHY 409 (2), PHY 443 (2), PHY 457 (2), PHY 444 (2), PHY 454 (2)  
= 10 Credits

Elective Courses: PHY 432 (3), PHY 456 (3), PHY 462 (3), PHY 446 (2), PHY 472 (2), PHY 475 (2), PHY 491 (2),  
= 10 Credits

Total = 30 Credits

Graduation Requirements
UTME: 122 Credits
DE: 96

NOTE: Detailed course description relating to Agriculture, Biology, Chemistry, Physics and Mathematics may be found in the appropriate sections of the Undergraduate Academic Programme in the Faculties of Agriculture, Life and Physical Sciences.
FACULTY OF ENGINEERING AND TECHNOLOGY

DEAN’S OFFICE

Y.A. Jimoh  B.Eng. (ABU); M.Eng., Ph.D. (Ilorin),  Professor & Dean
            FNSE, FNICE, MNGA, MASCE,
            MACEN, R. Engr. (Nigeria).

T. K. Ajiboye  B.Eng., M.Eng., Ph.D. (Ilorin), MNSE., R.  Senior Lecturer & Sub Dean
            Engr. (Nigeria)

A. K. Rufai  B.A. (Ed.) (Ilorin)  Faculty Officer

CENTRAL (ENGINEERING) WORKSHOP

M.F. Olorunshola  HND, PGD  Chief Technologist
Blessing O. Aboyeyei  B.Sc. (ABU)  Assistant Chief
               Technologist
E. T. Oluwole  Technologist II
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. J. Ejieji</td>
<td>B.Eng., M.Eng. (UNN); Ph.D. (Newcastle upon Tyne), MNSE, MNIAE, MASABE, MISTRO, R. Engr. (Nigeria)</td>
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<td>K. C. Oni</td>
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</tr>
<tr>
<td>P. O. Adewale</td>
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<tr>
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</tr>
</tbody>
</table>
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Lecturer II

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HND  
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K.O. Salaudeen  
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M.A. Opakunle  
HND  
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A. Omosidi  
NABTEB  
Lab Assistant

* Lecturers from Other Departments

DEPARTMENT OF CHEMICAL ENGINEERING
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.O. Yusuf</td>
<td>B.Sc. (Lagos); M.Sc. (OAU); Ph.D. (UTM, Malaysia). MNSE, MNSChE, R. Engr. (Nigeria)</td>
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<tr>
<td>M.A. Amoloye</td>
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<tr>
<td>I.A. Tijani</td>
<td>OND, HND MNSChE</td>
<td>Senior Technologist</td>
</tr>
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## DEPARTMENT OF CIVIL ENGINEERING

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
</tr>
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<tbody>
<tr>
<td>A. W. Salami</td>
<td>B.Eng., M.Eng., PGD. Comp Sci. (FUTM); Ph.D. (Ilorin), MNSE, MICE, MIAHS, R. Engr. (Nigeria)</td>
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<td>A.A. Adedeji</td>
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<tr>
<td>Y.A. Jimoh</td>
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<tr>
<td>J. Ben-Edigbe</td>
<td>B.Eng. (London); M.Sc. (Salford); Ph.D. (Glasgow)</td>
<td>Professor</td>
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<tr>
<td>S.A. Raji</td>
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</tr>
<tr>
<td>Name</td>
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</tr>
<tr>
<td>Y.A. Abdulkareem</td>
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<tr>
<td>T.J. Tunde</td>
<td>OND, HND</td>
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<tr>
<td>O.M. Sayi</td>
<td>OND, HND, PGD R. Engr. (Nigeria)</td>
<td>Principal Technologist</td>
</tr>
<tr>
<td>K.A. Yusuf</td>
<td>OND, HND</td>
<td>Technologist I</td>
</tr>
</tbody>
</table>
DEPARTMENT OF COMPUTER ENGINEERING

J. F. Opadiji  B.Eng, M.Eng (Ilorin), Dr.Eng. (Kobe), MNSE, R.Engr.  Senior Lecturer & Ag. Head

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S. A. Y. Amuda  B.Eng. (Yola), M.Eng., Ph.D. (Ilorin), MNSE, R.Engr.  Lecturer I

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A.R. Ajayi  B.Tech. (LAUTech.)  Graduate Assistant

O.O. Labiran  B.Eng. (Ilorin)  Senior Technologist

H.O. Mahmud  B.Eng. (Ilorin)  Technologist II
M. F. Akorede  B.Eng. (Ilorin); M.Eng. (BUK); PhD (UPM Malaysia), MNSE, MIEEE, R. Engr. (Nigeria)  Senior Lecturer & Ag. Head

B. J. Olufeagba  B.Sc. (ABU); Dip. Electronics, M.E.E. (Eindhoven); Ph.D. (Texas); C. Eng., MIEEE, MNSE, R. Engr. (Nigeria)  Professor

T. S. Ibiyemi  M.Sc., Ph.D. (Bradford), C.Eng., MNSE., R.Engr. (Nigeria)  Professor

Y. A. Adediran  M.Sc. (Budapest); M.Sc. (Ibadan); Ph.D. (FUTM), FNSE, MIEEE, R. Engr. (Nigeria)  Professor


A. J. Falade  B.Sc. (EKSU); M.Sc. (Ibadan); M.Eng. (Benin); Ph.D. (Ibadan), MNSE  Senior Research Fellow

N. T. Surajudeen-Bakinde  B.Eng., M.Eng. (Ilorin); Ph.D. (Liverpool), MNSE, MIEEE, MIET, R. Engr. (Nigeria)  Senior Lecturer
A. Y. AbdulRahman  B.Eng., M.Eng. (Ilorin); Ph.D. (UTM, Malaysia), MIEEE, IELTS  Lecturer I

A. S. Afolabi  B.Eng., M.Eng. (Ilorin); Ph.D. (Kobe, Japan)  Lecturer I

J. Akanni  B.Eng., M.Eng. (Ilorin), R. Engr. (Nigeria)  Lecturer II

C. A. Adamariko  B.Eng., M.Eng. (Ilorin), R. Engr. (Nigeria)  Lecturer II

O. Ibrahim  B.Eng. (Ilorin); M.Eng. (Glasgow Caledonia), PhD (in view), MIEEE, R. Engr. (Nigeria)  Lecturer II

A. Abdulkarim  B.Eng. (BUK); M.Eng. (Ilorin), MNSE, MIEEE, R. Engr. (Nigeria)  Lecturer II

J. B. Ogunsakin  B.Eng., M.Eng. (Ilorin), PhD (in view), R. Engr. (Nigeria)  Lecturer II

A. O. Otuoze  B.Eng. (Ilorin); M.Eng. (Benin), MIEEE, R. Engr. (Nigeria)  Lecturer II

O. O. Mohammed  B.Eng. (BUK); M.Eng. (Ilorin), R. Engr (Nigeria)  Lecturer II

O. Oniyide  B.Eng., M.Eng. (Ilorin), MIEEE  Assistant Lecturer

A. B. Okunuga  B.Sc. (Lagos); M.Eng. (Ilorin)  Assistant Lecturer

A. Dainkeh  B.Eng. (BUK); M.Sc. (East London)  Assistant Lecturer
T. O. Fajemilehin  B.Eng. (OAU); M.Eng. (Ilorin)  Assistant Lecturer

O. S. Zakariyya  B.Eng. (ABU), M.Sc. (North Cyprus)  Assistant Lecturer

S. A. Olayanju  B.Tech., M.Tech (LAUTECH)  Assistant Lecturer

R. A. Alao  B.Eng. (Ilorin)  Graduate Assistant

I. E. Femi  OND, HND (Ilorin), M.Eng. (Ilorin), SMIEE, MNSE, CIT (UK)  Chief Technologist

B. C. Ekwemuka  HND, MNSE, PGD, M.Eng. (Ilorin), R. Engr. (Nigeria)  Chief Technologist

M. O. Arowolo  HND (Bulgaria), PGD (LAUTECH), MNATE, R. Engr. (Nigeria)  Chief Technologist

I. A. Oloyede  OND, HND (NIST), PGD (LAUTECH)  Chief Technologist

B. O. Ariyo  M.Eng. (in view), HND (Ilorin), PGD (LAUTECH), MNSE, R. Engr. (Nigeria)  Senior Technologist I


A. Olatunji  OND (KadPoly), HND (Ilorin), PGDE  Technologist II
M. O. Olaoye  ND (Ilorin), HND, PGD (Ilorin)  Higher Technical Officer

S. T. Adu  WAEC, Trade Test I (Radio Mechanic), Part II (Telecom & Technician), Part II (CT & Gate)  Principal Technical Officer I

I. S. Agboola  B.Sc. (Edu. Political Science, UNAD), C & G of London, Technician Diploma, Advance Technician Diploma, Full Technology Diploma, MNISET  Principal Technical Officer II

M. T. Raheem  WAEC, Intermediate (Eelctr. Instal.), Trade Test Cert. (Electronics Servicing)  Senior Workshop Supervisor

A. T. Adeloye  WAEC Technical, Trade Test III, II, I, NABTEB  Senior Foreman

I. O. Oloruntele  SSCE  Laboratory Attendant

DEPARTMENT OF FOOD AND BIOPROCESS ENGINEERING

J. O. Olaoye  B.Eng., M.Eng., Ph.D. (Ilorin), MNSE, FNIAE, MASABE, MISTRO, MSESN, R. Engr (Nigeria)  Senior Lecturer & Ag. Head
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>K. Oje</td>
<td>B.Sc. (Ibadan); M.Sc., Ph.D. (Iowa State), MNSE, MNIAE, MASABE, R. Eng(Nigeria)</td>
<td>Professor</td>
</tr>
<tr>
<td>*J.K. Joseph</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>*Adenike T. Oladiji</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>*Olayinka R. Karim</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Reader</td>
</tr>
<tr>
<td>*Patricia F. Omojasola</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>*Omolara O. Oluwaniyi</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>M.O. Sunmonu</td>
<td>B.Eng., M.Eng., Ph.D. (FUTM), MNSE, MNIAE, MASABE, R. Engr (Nigeria)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>T. A. Ishola</td>
<td>B. Eng., M. Eng., (Ilorin), Ph. D. (UPM), MNIA, R.Engr (Nigeria)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>M. M. Odewole</td>
<td>B.Eng., M.Eng., (Ilorin), MNIAE, R. Engr (Nigeria)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>O. I. Obajemihi</td>
<td>B.Eng., (Ilorin); M.Eng., (FUTM), MNIAE</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Rafat O. A. Sani</td>
<td>B. Sc. (Maiduguri)</td>
<td>Technologist I</td>
</tr>
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</table>

* Lecturers from other Departments
### DEPARTMENT OF MATERIALS AND METALLURGICAL ENGINEERING

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
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<tbody>
<tr>
<td>K. R. Ajao</td>
<td>B.Eng. (Ilorin); M.Sc. (Lagos); Ph.D. (Ilorin), R. Engr. (Nigeria)</td>
<td>Senior Lecturer &amp; Ag. Head</td>
</tr>
<tr>
<td>A.G.F. Alabi</td>
<td>B.Sc. (OAU); M.Sc., DIC (London); Ph.D., (Pitts); FNSE; R.Engr. (Nigeria); MIEM, MNMS, MIM, MAIME, MNACE</td>
<td>Professor</td>
</tr>
<tr>
<td>O. K. Abubakar</td>
<td>M. Sc. (Donetsk); Ph. D. (FUTM); R. Eng. (Nigeria)</td>
<td>Professor</td>
</tr>
<tr>
<td>I.I. Ahmed</td>
<td>B.Eng. (Zaria); M.Sc., Ph.D. (Manchester), R. Engr. (Nigeria)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>I. N. Aremu</td>
<td>M.Sc. (Ukraine), R. Eng. (Nigeria)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>S.I. Talabi</td>
<td>B.Eng. (FUTA); M.Sc. (Lagos), R. Engr. (Nigeria)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>J.A. Adebisi</td>
<td>B.Eng. (FUTA); M.Sc. (Lagos), R. Engr. (Nigeria)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>T. Yahaya</td>
<td>B.Eng., M.Eng.(Ilorin), R. Engr. (Nigeria)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>I.O. Ambali</td>
<td>B.Sc., M.Sc. (Lagos)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>K.S. Ajao</td>
<td>B.Eng. (Ilorin)</td>
<td>Graduate Assistant</td>
</tr>
<tr>
<td>G. A. Faoni</td>
<td>OND, HND, R. Engr. (Nigeria)</td>
<td>Assistant Chief Technologist</td>
</tr>
<tr>
<td>Name</td>
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<tr>
<td>R.A. Yahya</td>
<td>B.Eng. (Zaria); M.Eng. (Ilorin), R. Engr. (Nigeria)</td>
<td>Technologist I</td>
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<tr>
<td>Suliat M. Ismail</td>
<td>OND, HND</td>
<td>Technologist II</td>
</tr>
<tr>
<td>J. O. Aweda</td>
<td>M.Sc. (Rostov Don); Ph.D. (Ilorin), MNSE, MNIMechE, R. Engr. (Nigeria)</td>
<td>Senior Lecturer &amp; Ag. Head</td>
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<tr>
<td>J. A. Olorunmaiye</td>
<td>B.Sc. (Ibadan); Ph.D. (Calgary), MNSE, MAIAA, MASHRAE, R. Engr. (Nigeria)</td>
<td>Professor</td>
</tr>
<tr>
<td>S. M. Adedayo</td>
<td>B.Eng., M.Eng. (Zaria); Ph.D. (Ilorin), MNSE, R. Engr. (Nigeria)</td>
<td>Reader</td>
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<tr>
<td>I. K. Adegun</td>
<td>B.Eng., M.Eng., Ph.D. (Ilorin) MNSE, R. Engr. (Nigeria)</td>
<td>Senior Lecturer</td>
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<tr>
<td>T. K. Ajiboye</td>
<td>B.Eng., M.Eng., Ph.D. (Ilorin), MNSE, R. Engr. (Nigeria)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>K. R. Ajao</td>
<td>B.Eng. (Ilorin); M.Sc. (Lagos); Ph.D. (Ilorin), R. Engr. (Nigeria)</td>
<td>Senior Lecturer</td>
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<tr>
<td>S. Abdulkareem</td>
<td>B.Sc. (Lagos); M.Eng. (FUTM); Ph.D. (IIUM), R. Engr. (Nigeria)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>I. O. Ohijeagbon</td>
<td>B.Eng., M.Eng. (Ilorin); Ph.D. (LAUTECH), MNSE., R. Engr. (Nigeria)</td>
<td>Senior Lecturer</td>
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<tr>
<td>Name</td>
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<tr>
<td>A. S. Adekunle</td>
<td>B.Eng., M.Eng. (Ilorin); Ph.D. (LAUTECH), R. Engr. (Nigeria)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>Rasheedat M. Mahamood</td>
<td>B.Eng. (FUTM); M.Eng. (Ilorin); Ph.D. (Johannesburg),</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>H. A. Ajimotokan</td>
<td>B.Eng. (Ilorin); M.Eng. (LAUTECH), R. Engr. (Nigeria)</td>
<td>Lecturer I</td>
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<tr>
<td>A. A. Adeniyi</td>
<td>B.Eng. (Ilorin); M.Sc. (London)</td>
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<tr>
<td>O. T. Popoola</td>
<td>B.Eng. (BUK); M.Eng. (Ilorin), R. Engr. (Nigeria)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>S. O. Adeyemi</td>
<td>B.Eng., M.Eng. (Ilorin), MNSE., R. Engr. (Nigeria)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>A.B. Rabiu</td>
<td>B.Eng. (BUK); M.Eng. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>O.K. Abdulrahaman</td>
<td>B.Eng. (FUTM); M.Eng. (Derby)</td>
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<tr>
<td>O.A. Adesoye</td>
<td>B.Eng., M.Eng. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>P. A. Odiah</td>
<td>FTC, PGD</td>
<td>Chief Technologist</td>
</tr>
<tr>
<td>A. A. Gbadamosi</td>
<td>HND, NTC</td>
<td>Senior Technologist</td>
</tr>
<tr>
<td>U. K. Mustapha</td>
<td>ND, HND</td>
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<tr>
<td>M. Ndagi</td>
<td>HND</td>
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<tr>
<td>V.O. Ologbonsaiye</td>
<td>ND, HND</td>
<td>Technologist II</td>
</tr>
<tr>
<td>T. Ajiboye</td>
<td>ND, HND</td>
<td>Technologist II</td>
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</tbody>
</table>
DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

A. S. Aremu  
B.Eng. (EKSU); M.Sc. (Ibadan); Cert. Data Processing & MIS, Ph.D. (Ilorin), MNSE, R. Engr.(Nigeria)  
Senior Lecturer & Ag. Head

B. F. Sule  
B.Eng. (Benin); M.Sc., Ph.D. (Cornell), FNSE, R. Engr. (Nigeria)  
Professor

A. W. Salami  
B.Eng., M.Eng., PGD (FUTM); Ph.D. (Ilorin) MNSE,MICE, MIAHS, R. Engr. (Nigeria)  
Senior Lecturer

A. M. Ayanshola  
B.Eng. (FUTM); M.Eng., Ph.D. (Ilorin), MNSE, R. Engr. (Nigeria)  
Senior Lecturer

O. S. Balogun  
B.Sc. (Ibadan); M.Sc., Ph.D. (UC-Davis), P.E., R. Engr. (Nigeria)  
Senior Research Fellow

O. G. Okeola  
B.Eng., M.Eng., Ph.D. (Ilorin), MNSE, MASCE, R. Engr. (Nigeria)  
Senior Research Fellow

S. O. Bilewu  
B.Eng. (ABU); M.Eng. (Ilorin), MNSE, R. Engr. (Nigeria)  
Lecturer I

O. O. Olofintoyin  
B.Eng., M.Eng. (Ilorin); Ph.D. (Durban), MNSE, R. Engr. (Nigeria)  
Lecturer I
<table>
<thead>
<tr>
<th>Name</th>
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<th>Position</th>
</tr>
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<tbody>
<tr>
<td>Olubunmi A. Mokuolu</td>
<td>B.Eng., M.Eng. (Ilorin); Ph.D. (Ibadan), FNSE, R. Engr. (Nigeria)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>Olayemi K. Olanlokun</td>
<td>B.Eng. (Benin); M.Sc. (Leeds)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Modupe O. Jimoh</td>
<td>B.Eng. (Ilorin); M.Eng. (FUTA), R. Engr. (Nigeria)</td>
<td>Lecturer II</td>
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<tr>
<td>T. S. Abdulkadir</td>
<td>B.Eng., M.Eng. (Ilorin), MNSE, R. Engr.(Nigeria)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Victoria O. Olorunpomi</td>
<td>B.Eng. (Ilorin)</td>
<td>Graduate Assistant</td>
</tr>
<tr>
<td>Selia I. Adio-Yusuf</td>
<td>ND, HND</td>
<td>Principal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Technologist</td>
</tr>
<tr>
<td>O.E. Erutor</td>
<td>ND, HND</td>
<td>Technologist II</td>
</tr>
</tbody>
</table>
Course Description

B.Eng. Agricultural and Biosystems Engineering

ABE 205  Power and Machinery Engineering for Agriculture Students  2 Credits
Description of major farm tools and machine parts. Farm power sources. Description of major farm equipment for primary and secondary tillage operations. Field performance evaluation and maintenance procedure of field machinery (Not for Agricultural and Biosystems Engineering Students).
15h (T), 45h (P); C

ABE 206  Introduction to Engineering Disciplines  2 Credits
Introduction to Agricultural and Biosystems Engineering profession: Definition of Agricultural and Biosystems Engineering. Specializations/ Options in Agricultural and Biosystems engineering. Use of various implements and equipment in Agricultural and Biosystems engineering for various operations/processes. Prospects and job opportunities in Agricultural and Biosystems engineering as a profession. Relevant regulatory bodies and societies in Agricultural and Biosystems engineering. The role of Agricultural and Biosystems engineers in advancement of humanity.
30h (T); C

ABE 222  Students Work Experience Programme  6 Credits
Introduction to practices and skills in general engineering through instruction in operation of hand and powered tools for wood and metal cutting and fabrication. Supervised hands – on experience in safe usage of tools and machines for selected tasks.
270h (P); C

ABE 263  Engineering Mathematics I  3 Credits
Limits, Continuity, Differentiation, Introduction to linear first order differential equations, partial and total derivatives composite functions, matrices and determinants, Vector algebra, Vector calculus, Directional Derivatives.
45h (T); C

ABE 283  General Engineering Laboratory Course I  2 Credits
90 (P); C

ABE 284  General Engineering Laboratory Course II  2 Credits
Laboratory investigations and report submission for selected experiments and projects in fundamentals of Thermodynamics. Engineering materials, Applied Mechanics II and Applied Electricity III

90h (P); C

ABE 302 Harvest and Post-Harvest Engineering for Agriculture Students 2 Credits
Selection, use and maintenance of harvesting equipment. Field evaluation of harvesting equipment. Equipment and facilities for handling of agricultural products. Description of crop processing equipment. Agricultural crop storage principles and practices. (Not for Agricultural and Biosystems Engineering Students)
15h (T), 45h (P); C

ABE 306 Engineering Economics 2 Credits
30h (T); C

ABE 308 Agricultural and Biosystems Hydrology 3 Credits
45h (T); C

ABE 310 Soil and Water Engineering for Agriculture Students 2 Credits
Irrigation, methods of irrigation, measurement of water, frequency and amount of irrigation, irrigation efficiencies, quality of irrigation water. Drainage, drainage requirements of crops, surface and sub-surface drainage. Soils Conservation; Universal soil loss equation Gully control structures. Soil erosion by water and wind (Not for Agricultural and Biosystems Engineering Students).
15h (T), 45h (P); C

ABE 314 Agricultural Power and Machinery 3 Credits
Farm power sources. Renewable energy and conversion systems. Biomass biofuel and biogas production and storage. Farm tractor development and types. Crop production equipment. Objectives, classifications, and field performance evaluation, selection and management of farm tractors and equipment. Adjustment, maintenance and repairs of farm tractors and equipment.
45h (T); C, PR: ABE 206

ABE 376 Technical Writing for Engineers 1 Credit
Professional use of English Language for letters, specification descriptions, presentation of charts, graphs, tables, writing of proposals in reports. Case studies of major professional presentation of reports and proposals.

<table>
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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>ABE 383</td>
<td>Agricultural and Biosystems Engineering Laboratory I</td>
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<tr>
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<td>Laboratory investigations and reports for selected experiments and projects in strength of materials, thermodynamics and heat transfer.</td>
<td></td>
</tr>
<tr>
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<td>45h (P); C</td>
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<tr>
<td>ABE 384</td>
<td>Agricultural and Biosystems Engineering Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Laboratory investigations and reports for selected experiments and projects in agricultural power and machinery, hydrology, mechanics of machines, metallurgy and soil mechanics.</td>
<td></td>
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<tr>
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<td>45h (P); C</td>
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<tr>
<td>ABE 392</td>
<td>Student Industrial Work Experience Scheme (SIWES I)</td>
<td>6</td>
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<td>On the job experience in industry having relevance to area of interest of the student within the discipline. (12 weeks during the long vacation following 300 level)</td>
<td></td>
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<td>270h (P); C</td>
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<td>ABE 403</td>
<td>Farm Mechanization Practices</td>
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<td></td>
<td>Tractor systems including parts of a tractor. Maintenance procedure for agricultural tractors, tractor-mounted implements including servicing, lubrication, etc. Maintenance of agricultural equipment such as sheller, dryer, seed cleaner, etc. Tractor driving lessons including coupling of tractor and operation of tractor-mounted implements such as the plough, harrow, ridger etc in land preparation activities. (Not for Agricultural and Biosystems Engineering Students).</td>
<td></td>
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<td>45h (P); C</td>
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<tr>
<td>ABE 404</td>
<td>Farm Workshop Practice</td>
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<td>Cutting, bending, grinding and welding of metals. Use of common workshop tools like snipers, guillotines, files, scribers, vices, welding machines, drills, etc; Fabrication techniques and construction methods. Fabrication of simple farm equipment like rakes, hand hoe, maize shellers, incubators, etc. (Not for Agricultural and Biosystems Engineering Students).</td>
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<td>45h (P); C</td>
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<tr>
<td>ABE 405</td>
<td>Soil Irrigation and Water Conservation</td>
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<td>Introduction to use and maintenance of surveying equipment like levels, theodolites, etc. Levelling for soil conservation and irrigation purposes. Production of topographic maps through a surveying project. Introduction to construction of irrigation systems</td>
<td></td>
</tr>
</tbody>
</table>
such as sprinkler, gravity and furrow irrigation. Basic soil conservation structures (Not for Agricultural and Biosystems Engineering Students).

45h (P); C

**ABE 411 Irrigation and Drainage Engineering**


45 (T); C

**ABE 415 Agricultural Land Surveying**


45h (T); C

**ABE 417 Agricultural Structures and Environmental Control**


45h (T); C

**ABE 423 Design of Agricultural Machinery**

Machine design processes and procedures. Materials for construction, selection, strength properties, stress analysis, costing, design of machine elements, machine fabrication, typical designs of low cost agricultural machinery. Problems and prospects of agricultural machinery development and commercial manufacture in Nigeria.

30h (T); C, PR: ABE 314

**ABE 463 Engineering Statistics**


30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ABE 481</td>
<td>Agricultural and Biosystems Engineering Laboratory III</td>
<td>2</td>
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<tr>
<td></td>
<td>Laboratory investigations and reports for selected experiments and projects in irrigation and drainage, design of agricultural machinery, agricultural land surveying, farm structures and environmental control, and in the approved elective course.</td>
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<td>90h (P); C</td>
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<tr>
<td>ABE 492</td>
<td>Student Industrial Work Experience Scheme (SIWES II)</td>
<td>12</td>
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<tr>
<td></td>
<td>On the job experience acquisition in industry at a higher level of responsibility than the case in ABE 392. (This would be undertaken during the second semester of 400 Level).</td>
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</tr>
<tr>
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<td>540h (P); C</td>
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<tr>
<td>ABE 501</td>
<td>Engineering Management</td>
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<tr>
<td>ABE 502</td>
<td>Food and Agricultural Biotechnology</td>
<td>3</td>
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<td>45h (T); E</td>
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<tr>
<td>ABE 503</td>
<td>Transportation Systems for Agricultural and Rural Development</td>
<td>3</td>
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<td>Farm roads, farm transportation system, development and construction of farm transport equipment. Farm transport systems standards and specifications. Ergonomics.</td>
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<tr>
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<td>45h (T); E</td>
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<tr>
<td>ABE 504</td>
<td>Agricultural Land Clearing and Development</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>ABE 505</td>
<td>Special Problems in Agricultural and Biosystems Engineering</td>
<td>3</td>
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<tr>
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<td>Independent study within the context of the students’ chosen option bordering on the application of appropriate technology for solving specific agricultural and biosystems engineering problems.</td>
<td></td>
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</tbody>
</table>
ABE 507  Application of Electricity to Agricultural and Biological Systems  3 Credits
Application of electricity to handling, processing and storage of agricultural and biological materials. Basic electronic applications to farm processes. Instrumentation and measurement in agricultural and biological systems. Farmstead power systems and distribution. Selection and use of electric motors, machines and transformers in agricultural and biological systems.
45h (T); C, PR: ELE 202

ABE 509  Agricultural Mechanization  3 Credits
45h (T); C, PR: ABE 314

ABE 513  Operation and Management of Agricultural Power and Machinery Systems  3 Credits
45h (T); C, PR: ABE 314

ABE 514  Agricultural Machinery  3 Credits
45h (T); C, PR: CVE 322, ABE 314

ABE 516  Agricultural Power  3 Credits
45h (T); C, PR: ABE 314

ABE 522  Agricultural Land Drainage  3 Credits
Introduction; purpose of drainage, causes of drainage problems; effect of poor drainage systems, subsurface drainage, design of drainage systems. Envelope materials and their design. Loads on conduits, drainage pumping. Well drainage, construction and installation of drains, maintenance of drains, economic and legal aspects of drainage.

45h (T); C, PR: AGY 304

**ABE 523  Rural Water Supply and Sanitation**  
3 Credits  
Water requirements, water quality standards, water borne diseases, biochemical oxygen demand. Portable water impurities, sources and treatment methods of water for rural homes, Water lifting devices, Transportation and distribution systems. Pipe conveyance, treatment and disposal of Sewage from rural homes, septic tanks, digestion ponds and family privies.

30h (T); C, PR: CVE 431

**ABE 524  Advanced Irrigation Engineering**  
3 Credits  
Factors affecting efficient farm water management. Design of irrigation systems; Basin, furrow, level and graded border, sprinkler, drip, etc. Design of irrigation structures (water measuring structures, water dividing structures, etc. Evaluating irrigation systems and practices. Irrigation water scheduling. Quality of irrigation water. Reclamation of saline and alkali soils. Feasibility studies of an irrigation projects. Economic and financial feasibility of a farm irrigated system.

45h (T); C, PR: ABE 411

**ABE 527  Advanced Hydraulic Engineering**  
2 Credits  

30h (T); C, PR: CVE 431

**ABE 528  Soil and Water Conservation Engineering**  
3 Credits  

45h (T); C, PR: AGY 304

**ABE 533  Engineering Properties of Agricultural and Biological Materials**  
2 Credits  
Physical, mechanical, rheological, thermal, aerodynamic and hydrodynamic properties of agricultural and biological materials. Instrumentation and measurement of the properties of agricultural and biological materials.

15h (T), 45h (P); C, PR: AGY 301
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE 534</td>
<td>Application of Solar Energy to Agricultural and Biological Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); E</td>
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</tr>
<tr>
<td>ABE 535</td>
<td>Handling of Agricultural and Biological Materials</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Material handling methods and systems. Design and construction of appropriate material handling equipment for agricultural and biological materials. Economics of material handling. Newtonian and Non-Newtonian fluids.</td>
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<tr>
<td></td>
<td>30h (T); C, PR: AGY 301</td>
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</tr>
<tr>
<td>ABE 536</td>
<td>Processing of Agricultural and Biological Materials</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>30h (T), 45h (P); C, PR: ABE 533</td>
<td></td>
</tr>
<tr>
<td>ABE 537</td>
<td>Bioprocess Engineering</td>
<td>3</td>
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<tr>
<td></td>
<td>30h (T), 45h (P); C, PR: MEE 353</td>
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<tr>
<td>ABE 538</td>
<td>Storage of Agricultural and Biological Materials</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C, PR: ABE 533</td>
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<tr>
<td>ABE 541</td>
<td>Renewable Energy Engineering</td>
<td>2</td>
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<tr>
<td></td>
<td>Renewable energy resources: development, utilization and environmental impact assessment. Design of processes and equipment for biomass, biofuel and biogas production. Storage and distribution of biogas for domestic and industrial use.</td>
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<tr>
<td></td>
<td>30h (T); C, PR: MEE 353</td>
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</tr>
<tr>
<td>ABE 542</td>
<td>Waste Management Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>
Thermochemical conversion of food and bioprocessing wastes to useful products. Design and analysis of waste recycling and treatment plants. Control and management of industrial waste and environmental polluting effluents. Biological waste handling and management

45h (T); C, PR: ABE 417

ABE 544 Bioenvironmental Engineering

Sewage disposal and water supply systems. Environmental control for plants, animal and aquatic habitats. Design and analysis of environmental control processes and equipment. Environmental laws and regulations.

30h (T), 45h (P); C, PR: ABE 417

ABE 552 Fundamentals of Food Engineering I

Basic methods of food processing: pasteurization, sterilization, dehydration, etc. Techniques, processes and equipment for food preservation: cold storage, smoking, sun-drying, artificial drying and canning. Principles, techniques and machine communication in flour and bread making, brewing and dairy products processing.

30h (T), 45h (P); C

ABE 554 Fundamentals of Food Engineering II

Development of food preservation practices and equipment. Design of machine and equipment for material separation including distillation, solvent extraction, mechanical extraction, leaching, drying, humidification, evaporation and crystallization. Use of analytical and graphical techniques.

30h (T), 45h (P); C

ABE 562 Basic Aquacultural Technology


45h (T); C, PR: ABE 417

ABE 564 Aquacultural and Animal Production Engineering

Production and processing techniques for fishes band marine foods. Machines and structures for fishery operations. Design of machines for slaughtering, cutting and packaging of animals.

30h (T), 45h (P); C

ABE 573 Engineer in Society

1 Credit

**15h (T); C**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE 581</td>
<td>Agricultural and Biosystems Engineering Laboratory IV</td>
<td>1 Credit</td>
</tr>
<tr>
<td></td>
<td>Laboratory investigations and reports for selected experiments and projects in engineering properties of agricultural and biological materials, electricity in agricultural and biological systems, courses resident in the departmental options, and in the approved elective course.</td>
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</tr>
<tr>
<td></td>
<td>45h (P); C</td>
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</tr>
<tr>
<td>ABE 582</td>
<td>Agricultural and Biosystems Engineering Laboratory V</td>
<td>1 Credit</td>
</tr>
<tr>
<td></td>
<td>Laboratory investigations and reports for selected experiments and projects in agricultural land clearing and development, soil and water conservation engineering, courses resident in the departmental options, and in the approved elective course.</td>
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<tr>
<td></td>
<td>45h (P); C</td>
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</tr>
<tr>
<td>ABE 593</td>
<td>Agricultural and Biosystems Engineering Project I</td>
<td>4 Credits</td>
</tr>
<tr>
<td></td>
<td>Original individual student project related to a prescribed agricultural and biosystems engineering problem involving literature review, identification, definition and formulation of the problem, theoretical investigations, modelling, simulation, analysis and design. Presentation of a preliminary written report.</td>
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<tr>
<td></td>
<td>180h (P); C</td>
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<tr>
<td>ABE 594</td>
<td>Agricultural and Biosystems Engineering Project II</td>
<td>4 Credits</td>
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<tr>
<td></td>
<td>Fabrication of the designed prototypes. Debugging, calibration, testing. Data collection and analysis. Presentation of a comprehensive written report of the investigations.</td>
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<tr>
<td></td>
<td>180h (P); C</td>
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</tbody>
</table>

**Note:** Details of other courses in the Department of Agricultural and Biosystems Engineering are available in relevant Departments as follows:
ABE courses in Agricultural and Biosystems Engineering;
GNS courses in General Studies Division;
GSE from Technical Entrepreneurship Centre;
CHE courses in Chemical Engineering Department;
CVE courses in Civil Engineering Department;
ELE courses in Electrical and Electronics Engineering Department;
MEE courses in Mechanical Engineering Department;
STA, MAT, PHY and CHM courses in Faculty of Physical Sciences, and
BUL in Faculty of Law.
### SUMMARY

#### 100 LEVEL

<table>
<thead>
<tr>
<th>Required Courses:</th>
<th>GNS 111 (2), GNS 112 (2)</th>
<th>= 4 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective Courses:</td>
<td>STA 131 (2), STA 124 (2)</td>
<td>= 4 Credits</td>
</tr>
</tbody>
</table>

At least 9 credits must be passed out of the following Mathematics Courses:
MAT 111 (3), MAT 112 (3), MAT 113 (3), MAT 114 (3) = 9 Credits

At least 9 credits must be passed out of the following Physics Courses:
PHY 115 (2), PHY 125 (3), PHY 142 (2), PHY 152 (3), PHY 191 (1), PHY 192 (1) = 9 Credits

At least 6 credits must be passed out of the following Chemistry Courses:
CHM 101 (3), CHM 112 (2), CHM 115 (2), CHM 116 (1), CHM 132 (2) = 6 Credits

#### 200 LEVEL

<table>
<thead>
<tr>
<th>Compulsory Courses:</th>
<th>ABE 206 (2), ABE 222 (6), ABE 263 (3), ABE 283 (2), ABE 284 (2)</th>
<th>= 15 Credits</th>
</tr>
</thead>
</table>

Total = 51 Credits

<table>
<thead>
<tr>
<th>Direct Entry Students:</th>
<th>GNS 111(2), GNS 112(2)</th>
<th>= 4 Credits</th>
</tr>
</thead>
</table>

#### 300 LEVEL

<table>
<thead>
<tr>
<th>Compulsory Courses:</th>
<th>ABE 306 (2), ABE 308 (3), ABE 314 (3), ABE 376 (1), ABE 383 (1), ABE 384 (1), ABE 392 (6)</th>
<th>= 17 Credits</th>
</tr>
</thead>
</table>
Required Courses: 
GNS 311 (2), AGY 304 (2) AGY 301 (2), ANP 307 (2), CVE 322 (3), 
CVE 363 (2), CVE 334 (3), MEE 361 (3), MEE 362 (3), MEE 302 (2), 
MEE 356 (3), MEE 353 (3), GEM 319 (3), GSE 301 (3) = 36 Credits 

Total = 53 Credits

Direct Entry Students: 
GNS 111(2); GNS 112(2); GNS 211(2); GNS 212(2) = 8 Credits

400 LEVEL

Compulsory Courses: 
ABE 411 (3), ABE 415 (3), ABE 417 (3), ABE 423 (3), ABE 463 2), ABE 481 (2), ABE 492 (12) 

= 28 Credits

Required Course: 
AEF 405 (2) = 2 Credits

Elective Courses: 
Only 3 credits from any of the following:
WEE 411 (3), CVE 421 (3), MEE 421 (3), MEE 551 (3), MEE 554 (3), MEE 561 (3) 

= 3 Credits

Total = 33 Credits

Please find details of other courses in the Department of Agricultural Economics and Farm Management and, the Departments of Civil Engineering, Mechanical Engineering and Water Resources Engineering.

500 LEVEL

COMMON COURSES

Compulsory Courses: 
ABE 501(3), ABE 504 (2), ABE 507 (3), ABE 509 (2), ABE 528 (3), ABE 533 (2), ABE 573 (1) ABE 581 (1), ABE 582 (1), ABE 593 (4), ABE 594 (4), 

= 26 Credits

Required Courses: 
BUL 506 (3) = 3 Credits
Elective Courses: Only 3 credits out of the following elective courses must be taken and passed for any departmental option:

ABE 505 (3), ABE 503 (3), ABE 502 (3), ABE 534 (3) = 3 Credits

Departmental Options

Aquacultural Engineering Option Courses: ABE 537 (3), ABE 541 (2), ABE 562 (3),
ABE 564 (3) = 11 Credits
Total = 41 Credits

Food and Bioprocess Engineering Option Courses: ABE 535 (2), ABE 537 (3), ABE 552 (3),
ABE 554 (3) = 11 Credits
Total = 43 Credits

Power and Machinery Engineering Option Courses: ABE 513 (3), ABE 514 (3), ABE 516 (3),
ABE 535 (2) = 11 Credits
Total = 43 Credits

Processing and Storage Engineering Option Courses: ABE 535 (2), ABE 536 (3), ABE 537 (3),
ABE 538 (3) = 11 Credits
Total = 43 Credits

Soil and Water Engineering Option Courses: ABE 522 (3), ABE 523 (3), ABE 524 (3),
ABE 527 (2) = 11 Credits
Total = 43 Credits

Structures and Environmental Engineering Option Courses: ABE 537 (3), ABE 541 (2),
ABE 542 (3), ABE 544 (3) = 11 Credits
Total = 43 Credits
GRADUATION REQUIREMENTS (All Options)

1. Major Engineering Courses (ABE, CHE, CVE, ELE, MEE, WEE) 133 Credits
2. Courses from other Department outside the Faculty
   (AEF 422, AGY 301, AGY 304, ANP 307, GEM 319) 11 Credits
3. General Studies Courses: (GNS 111, GNS 112, 2 GNS 211,
   GNS 212, GNS 311) 10 Credits
4. Students’ Industrial Works Experience Scheme (SIWES) 18 Credits
5. Students’ Work Experience Programme (SWEP) 6 Credits
6. Management, Economics and Entrepreneurship Skill
   (GSE 301, BUL 506) 6 Credits

Total 184 Credits

UTME: 184 Credits
DE (200L): 184 Credits
DE (300L): 137 Credits

COMPUTATION OF GRADE POINT

1. 100 level courses are not used for computation of CGPA except GNS 111 (2), GNS 112 (2)
2. The 18 credits of SIWES I and SIWES II must be passed but they are not used for computation of CGPA
3. The minimum Credits that will be used to compute the CGPA for all options are as follows:

For UTME/DE at 200 and 300 levels

<table>
<thead>
<tr>
<th>Level</th>
<th>UTME</th>
<th>DE (200L)</th>
<th>DE (300L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Level</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>200 Level</td>
<td>51</td>
<td>55</td>
<td>-</td>
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<tr>
<td>300 Level</td>
<td>47</td>
<td>47</td>
<td>55</td>
</tr>
<tr>
<td>400 Level</td>
<td>21</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>500 Level</td>
<td>43</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>Total</td>
<td>166 Credits</td>
<td>166 Credits</td>
<td>119 Credits</td>
</tr>
</tbody>
</table>


DEPARTMENT OF BIOMEDICAL ENGINEERING

Course Description

B.Eng. Biomedical Engineering

BME 201 General Anatomy 2 Credits
Structure and functions of the cell. General histology and basic tissues of the body. Body systems: composition, structure and functional adaptations. Basic comparative anatomy of major organ systems in vertebrates. Introduction to radiological anatomy as related to structures of the human body such as musculo-skeletal system, respiratory system, cardiovascular system and other body systems.
15h (T), 45 (P); C

BME 222 Students’ Work Experience Programme (SWEP) 6 Credits
Practices and skills in general engineering through instruction in operation of hand and powered tools for wood and metal cutting and fabrication. Supervised hand on experience in safe usage of biomedical tools and machines for selected tasks.
270h (P); C

BME 283 General Engineering Laboratory Course I 2 Credits
Laboratory investigation and report submission for selected experiments and projects in Applied Mechanics and Applied Electricity I and Fundamental’s of Fluid Mechanics.
90h (P); C

BME 284 General Engineering Laboratory Course II 2 Credits
Laboratory investigations and report submission for selected experiments and projects in Fundamentals of Thermodynamics, Engineering materials, Applied Mechanics II, Applied Electricity III.
90h (P); C

BME 303 Molecular and Cellular Biology 2 Credits
Introduction to modern molecular and cellular biology: reaction between molecules, including receptor-ligand, antigen-antibody, specificity, protein structure, enzyme catalysis, genetic information, protein processing and secretion, cell physiology and cell functions. Multi-state kinetics.
30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 310</td>
<td>Human Physiology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>General principles of physiology, Cell membrane; transport mechanisms; Membrane potentials homeostasis; Introduction to blood, body fluids and principles of energy metabolism.</td>
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<td></td>
<td>30h (T); C</td>
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<tr>
<td>BME 304</td>
<td>Computer Programming</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Programming and Simulation languages; application of computers to solving engineering problems such as C/C++, JAVA, MATLAB etc; data types; Operators and reserved words; Input and output statements; Control of program flow; Arrays and Pointers; Functions; File operations, Objected-Oriented Programming.</td>
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<td></td>
<td>30h (T); C, PR: ELE 276</td>
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<tr>
<td>BME 305</td>
<td>Biological Systems and Control</td>
<td>2</td>
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<tr>
<td></td>
<td>Introduction to physiological, cardiovascular, pulmonary, eye movement and neuromuscular reflex control systems.</td>
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<td></td>
<td>30 (T); C</td>
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<tr>
<td>BME 306</td>
<td>Biomedical Measurements and Instrumentation</td>
<td>3</td>
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<tr>
<td></td>
<td>Definition of metrology; Biomedical quantities and measuring techniques e.g., temperature, pressure, stress, force etc; Theory of errors; Indicating instruments; Transducers; gauges and recorders; Analog and digital electronic measuring instruments; Display devices; Magnetic Resonance Imaging; Endoscopes; Data acquisition, interfacing of computers with A/D card.</td>
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<td></td>
<td>45h (T); C, PR: ELE 202</td>
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<tr>
<td>BME 307</td>
<td>Biomedical Engineering Thermodynamics and Statistical Mechanics</td>
<td>2</td>
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<tr>
<td></td>
<td>Basic principles of Thermodynamics, chemical equilibrium and thermodynamics of reactions in solution, and elementary statistical mechanics</td>
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<tr>
<td></td>
<td>30h (T); C, PR: CHE 242</td>
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<tr>
<td>BME 308</td>
<td>Biological Systems and Modelling</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Linear model of physiological system, cardiovascular system modelling, pulmonary mechanics modelling, eye movement and Wetheimer’s saccade eye model, simple model of muscle stretch reflex action. Transient response analysis of neuromuscular reflex model, analysis of linearized model of lungs mechanics, circulatory model and glucose insulin regulation model.</td>
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<td>45h (T); C</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>BME 309</td>
<td>Systems Bioengineering I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Molecular and Cellular physiology, System cardiovascular physiology, Cardiovascular and horizons challenges for biomedical engineers including heart failure and its investigation/treatment</td>
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<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>BME 381</td>
<td>Biomedical Engineering Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Laboratory investigations and report submission for selected experiments and prescribed projects drawn from first semester courses.</td>
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<tr>
<td></td>
<td>90h (P); C</td>
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<tr>
<td>BME 382</td>
<td>Biomedical Engineering Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Laboratory investigations and report submission for selected experiments and prescribed projects drawn from second semester courses.</td>
<td></td>
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<tr>
<td></td>
<td>90h (P); C</td>
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<tr>
<td>BME 392</td>
<td>Student Industrial Work Experience Scheme (SIWES I)</td>
<td>6</td>
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<tr>
<td></td>
<td>On the job experience in the industry chosen for its relevance to students’ major. (12 weeks during long vacation following 300 level)</td>
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<tr>
<td></td>
<td>270h (P); C</td>
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<tr>
<td>BME 401</td>
<td>Systems Bioengineering II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>BME 403</td>
<td>Biomedical Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Operational environments of biomedical equipment; Analysis and principles of material selection, design and fabrication; Safety and failure analysis; Use of codes, tables, standards and empirical data; Application of engineering theories to machine components design.</td>
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<tr>
<td></td>
<td>45h (T); C</td>
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<tr>
<td>BME 405</td>
<td>Bioinformatics</td>
<td>3</td>
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<td>Molecular genetics; Data structures, lists, trees, graphs, etc; Database management system and software design; Algorithms for bioinformatics.</td>
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<td></td>
<td>45h (T); C, PR: BME 304</td>
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<tr>
<td>BME 407</td>
<td>Biomedical Manufacturing Processes</td>
<td>3</td>
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</tbody>
</table>
Principles of casting, metal cutting and welding. Principles of operation of presses: Blanking, drawing, bending, extrusion, etc. Tool design and economics; Milling, grinding, planning etc. Operation of computer control machine.

45h (T); C

**BME 409 Biomechanics**

3 Credits

Continuum concepts of solid mechanics (soft and hard tissues); Molecular and skeletal mechanics; Modelling and finite element analysis; Motors and motorized parts; advance medical devices and human bionics devices.

45h (T); C

**BME 411 Biomaterials**

3 credits

Properties of materials used in medicine, synthesis and properties of polymeric materials, polymeric biomaterials, natural and recombinant biomaterials, biodegradable materials, hydrogels, stimuli-sensitive materials, characterization of biomaterials.

45h (T); C, PR: MEE 272

**BME 481 Biomedical Engineering Laboratory III**

2 Credits

Laboratory investigations and report submission for selected experiments and prescribed projects drawn from second semester courses.

90h (P); C

**BME 492 Student Industrial Work Experience Scheme (SIWES II)**

12 Credits

On the job experience in the industry at a higher level of responsibility than BME 392. (Six months during the second Semester of 400Level)

540h (P); C

**BME 501 Cellular Engineering**

3 Credits

Molecular biology, protein/ligand binding, receptor/ligand trafficking, cell-cell interactions, cell-matrix interactions, and cell adhesion and migration at both theoretical and experimental levels. Effects of chemical and electrical stimuli on cell function, gene regulation and signal transduction processes. Enzyme evolution, polymeric biomaterials.

45h (T); E

**BME 502 Biomedical Engineering Industries**

3 Credits

Maintenance, Repairs and sustainability of equipment and infrastructure in Hospitals; Pharmaceutical Industry; Food processing industry; Medical equipment manufacturing industry

45h (T); C
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME 503</td>
<td>Principles of Biomedical Engineering Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fundamental of biomedical sensors and instrumentation, FDA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>regulations, design with electronics, biopotentials and</td>
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<tr>
<td></td>
<td>ECG amplifier design, recording from heart, muscle, brain,</td>
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<td></td>
<td>diagnostic and therapeutic devices, application in</td>
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<td></td>
<td>prosthetics and rehabilitation, and safety.</td>
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<tr>
<td></td>
<td>45h (T); C, PR: BME 306</td>
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</tr>
<tr>
<td>BME 504</td>
<td>Models of the Neuron</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Thermodynamics of ion flow in aqueous environment,</td>
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<tr>
<td></td>
<td>biology and biophysics of ion channels, gating, non linear</td>
<td></td>
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<tr>
<td></td>
<td>dynamics in membrane, synaptic transmission, integration</td>
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<td></td>
<td>of electrical activity in multi-compartment, dendritic</td>
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<td></td>
<td>tree models, and properties of neural networks.</td>
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<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>BME 505</td>
<td>Nanomedicine</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to nanoscience and nanotechnology; synthesis,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>structure and properties of nanostructures. Design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>principles of constructing nanomaterials for use in drug</td>
<td></td>
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<tr>
<td></td>
<td>delivery, diseases diagnosis and imaging, and tissue</td>
<td></td>
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<tr>
<td></td>
<td>engineering, supramolecular scaffolds for tissue</td>
<td></td>
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<tr>
<td></td>
<td>engineering and regenerative medicine. Case studies on</td>
<td></td>
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<tr>
<td></td>
<td>commercialized Nanomedicine.</td>
<td></td>
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<tr>
<td></td>
<td>45h (T); E</td>
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</tr>
<tr>
<td>BME 506</td>
<td>Transport Phenomena</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Dimensional analysis and dimensionless groups. Laminar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>boundary layer, introduction to turbulent flow. Definition</td>
<td></td>
</tr>
<tr>
<td></td>
<td>of the friction factor. Macroscopic mass, momentum and</td>
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</tr>
<tr>
<td></td>
<td>mechanical energy balances, Metering of fluids. Convective</td>
<td></td>
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<tr>
<td></td>
<td>heat and mass transfer. Boiling and condensation.</td>
<td></td>
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<tr>
<td></td>
<td>Interface mass transfer.</td>
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<tr>
<td></td>
<td>45h (T); E</td>
<td></td>
</tr>
<tr>
<td>BME 508</td>
<td>Modelling Dynamic/ Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to modelling, dynamics and control, unsteady</td>
<td></td>
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<tr>
<td></td>
<td>of biomolecular and chemical process control systems. State</td>
<td></td>
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<tr>
<td></td>
<td>space and Laplace transform techniques, block diagram</td>
<td></td>
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<tr>
<td></td>
<td>algebra, and transfer functions. Feedback and feedforward</td>
<td></td>
</tr>
<tr>
<td></td>
<td>control. Frequency response and stability analysis. Model</td>
<td></td>
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<tr>
<td></td>
<td>construction for biomolecular and cellular systems.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>45h (T); E</td>
<td></td>
</tr>
<tr>
<td>BME 509</td>
<td>Bioengineering in Regenerative Medicine</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to regenerative medicine, bioreactors,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>scaffolds in tissue engineering, methods of analyzing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>tissues, stem cell culture, adult and pluripotent stem</td>
<td></td>
</tr>
<tr>
<td></td>
<td>cells</td>
<td></td>
</tr>
<tr>
<td></td>
<td>45h (T); E</td>
<td></td>
</tr>
</tbody>
</table>
BME 511  Image Processing and Analysis 3 Credits
Fundamental methods for the processing and analysis of images: element of visual perception, sampling and quantization, image transforms, image enhancement, colour image processing, image restoration, image segmentation, and multi resolution image representation.
30h (T), 45h (P); E

BME 512  Medical Imaging System 3 Credits
Introduction to physics, instrumentation, and signal processing methods used in general radiography, X-ray computed tomography, ultrasound imaging, magnetic resonance imaging, and digital linear accelerator.
45h (T); E

BME 515  Advanced Simulation 3 Credits
45h (T); E

BME 593  Biomedical Engineering Project I 4 Credits
Original individual student project related to a prescribed biomedical engineering problem involving literature review, identification, definition and formulation of the problem, theoretical investigations, analysis, modeling, design and simulation.
15h (T), 135h (P); C

BME 594  Biomedical Engineering Project II 4 Credits
Second phase of research investigations involving the implementation of the designed model; debugging; calibration, testing, data collection and analysis; presentation of a comprehensive written report of the investigation
15h (T), 135h (P); C, PR: BME 593
SUMMARY

100 Level

Required Courses:
GNS 111 (2), GNS 112 (2) = 4 Credits

Elective Courses:
STA 131 (2), STA 124 (2) = 4 Credits
At least 9 credits must be passed out of the following:
MAT 111(3), 113 (3), 112 (3), 114 (3) = 9 Credits
At least 9 credits must be passed out of the following:
PHY 115 (2), 125 (3), 142 (2), 152 (3), 191 (1), 192 (1) = 9 Credits
At least 6 credits must be passed out of the following:
CHM 101 (3), 112 (2), 115 (2), 116 (1), 132 (2) = 6 Credits
Total = 4 Credits

200 Level

Compulsory Courses:
BME 201 (2), 222 (6), 283 (2), 284 (2) = 12 Credits

Required Courses:
ABE 206 (2), 263 (3), CHE 241 (3), 242 (3), 264 (3), CVE 253 (3),
254 (3), ELE 201 (3), 202 (3), 275 (1), 276 (2), MEE 217 (2), 218 (2),
235 (2), 272 (2), GNS 211 (2), 212 (2), 381 (2), 382 (2) = 41 Credits
Total = 53 Credits

Direct Entry Students:
GNS 111 (2), GNS 112 (2) = 4 Credits

300 Level

Compulsory Courses:
BME 303 (2), 310 (2), 304 (2), 305 (2), 306 (3), 307 (2), 308 (3), 309 (2),
381 (2), 382 (2), 392 (6) = 28 Credits

Required Courses:
ABE 306 (2), 376 (1), ELE 321(3), 324(3), 331 (3), MEE 356 (3), 361 (3),
GNS 311 (2), GSE 301 (3), 362 (3), 381 (2) = 26 Credits
Total = 54 Credits

Direct Entry Students:
GNS 111 (2), GNS 112 (2), GNS 211 (2), 212 (2) = 8 Credits
400 Level

**Compulsory Courses:**
BME 401 (3), 403 (3), 405 (3), 407 (3), 409 (3), 411 (3), 481 (2), 492 (12)

**Required Courses:**
ABE 463 (2)

**Total** = 32 Credits

= 2 Credits

**Total** = 34 Credits

500 Level

**Compulsory Courses:**
ABE 501 (3), ABE 573 (1), BME 502 (3), 504 (3), 593 (4), 594 (4),

= 18 Credits

**Required Courses:**
BUL 506 (3), ELE 502 (2), MEE 551 (3)

= 8 Credits

**Elective Courses:**

1. **Option A:** Biomedical Instrumentation and Micro/Nano System Option
   BME 503 (3), 505 (3), 512 (3)
   = 9 Credits

2. **Option B:** Cell and Tissue Engineering Option
   BME 501 (3), 506 (3), 509 (3)
   = 9 Credits

3. **Option C:** Computational Bioengineering Option
   BME 508 (3), 511 (3), 515 (3)
   = 9 Credits

**Total for each Option** = 35 Credits

**Graduation requirements (For all Options):**

1. Engineering Courses (ABE, CHE, CVE, ELE, MEE, BME) 131 Credits
2. Students’ Industrial Works Experience Scheme (SIWES I and II) 18 Credits
3. Students Work Experience Programme (SWEP) 6 Credits
4. General Studies Courses: (GNS 111, 112, 211, 212, 311) 10 Credits
5. Minimum Electives 9 Credits
6. Law and Entrepreneurial Skill courses
   (GSE 301 (3), BUL 506 (3)) 6 Credits
UTME: 180 Credits
DE (200L): 180 Credits
DE (300L): 131 Credits

Computation of Grade Point
4. 100 level courses are not used for computation of CGPA except GNS 111 (2), GNS 112 (2)
5. The 18 credits of SIWES must be passed but they are not used for computation of CGPA
6. The minimum Credits that will be used to compute the CGPA for all options are as follows:
   \[\begin{array}{|c|c|c|c|}
   \hline
   \text{Level} & \text{UTME} & \text{DE (200L)} & \text{DE (300L)} \\
   \hline
   100 \text{ Level} & 4 & - & - \\
   200 \text{ Level} & 53 & 57 & - \\
   300 \text{ Level} & 48 & 48 & 56 \\
   400 \text{ Level} & 22 & 22 & 22 \\
   500 \text{ Level} & 35 & 35 & 35 \\
   \hline
   \text{Total} & 162 \text{ Credits} & 162 \text{ Credits} & 113 \text{ Credits} \\
   \hline
   \end{array}\]
## DEPARTMENT OF CHEMICAL ENGINEERING

### Course Description

### B. Eng. Chemical Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 222</td>
<td>Students Work Experience Programme I</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Introduction to practices, and skills in general engineering through instruction in operation of hand and powered tools for wood and metal cutting and fabrication. Supervised hands-on experience in safe usage of tools and machines for selected tasks.</td>
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<tr>
<td></td>
<td>270h (P); C</td>
<td></td>
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<tr>
<td>CHE 241</td>
<td>Fundamentals of Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Dimensions and Unit, Properties of fluids, Fluids Statics, Newtonian and Non-Newtonian fluids, Fluids statics and application, Bernoulli equation, fluid measurement, types of flow and flow regimes, Basic conservation laws, friction effect and losses in laminar and turbulent flows in ducts and pipes. Dimensional analysis and dynamic similitude, principles of construction and operation of selected hydraulic machinery. Hydropower systems.</td>
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<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>CHE 242</td>
<td>Fundamentals of Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>CHE 264</td>
<td>Engineering Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45 (T); C</td>
<td></td>
</tr>
<tr>
<td>CHE 283</td>
<td>General Engineering Laboratory Course I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>90 (P); C</td>
<td></td>
</tr>
<tr>
<td>CHE 284</td>
<td>General Engineering Laboratory Course II</td>
<td>2</td>
</tr>
</tbody>
</table>
Laboratory investigations and report submission for selected experiments and projects in Fundamentals of Thermodynamics, Engineering materials, Applied Mechanics II and Applied Electricity II

90 (P); C

CHE 311  Chemical Engineering Thermodynamics  3 Credits

45h (T); C, PR: CHE 242

CHE 312  Process Instrumentation  2 Credits

30h (T); C

CHE 322  Transport Phenomena II  2 Credits

30h (T); C, PR: CHE 331

CHE 331  Transport Phenomena I  3 Credits

45h (T); C, PR: CHE 241

CHE 341  Introduction to Chemical Engineering  3 Credits
Introduction to equipment of chemical plants. The chemical equation and stoichiometry: limiting reaction, excess reactant, conversion, selectivity and yield. Material balances. Calculations for steady state systems involving inert recycle, by pass and purges. Energy balances: Forms of energy and overall energy balance for a chemical system. Heat capacities. Calculation of
enthallpy changes: heat of fusion, vaporization, reaction, formation and combustion. Solution and mixing. Combined material and energy balances. Enthalpy concentration charts application and construction.

45h (T); C, PR: CHM212

**CHE 342**  
**Kinetics and Catalysis**  
3 Credits  
Introduction, classifications of reaction, Variables affecting reaction rate, Definition of reaction rate; Rate equations and constants; Arrhenius relationships, orders of reaction, activation energy, frequency factors and determinations. Introduction to catalysis. Kinetics of homogenous reaction. Kinetics of heterogeneous catalytic non-catalytic reaction. Heterogeneous Catalysis Characterization of the physiochemical properties of deactivation models.

45h (T); C

**CHE 344**  
**Particle Technology**  
2 Credits  

30h (T); C

**CHE 362**  
**Polymer Engineering I**  
2 Credits  

45h (T); C, PR: CHM 112

**CHE 381**  
**Chemical Engineering Laboratory I**  
2 Credits  
Laboratory investigations and report submission for selected experiments in distribution coefficient, cooling tower, sedimentation, fluid flow in packed columns and flow measuring apparatus.

45h (P); C

**CHE 382**  
**Chemical Engineering Laboratory II**  
2 Credits  
Laboratory investigations and report submission for selected experiments in fluid circuit system, saponification in a batch reactor, vortex tube, fluid particle system and double pipe heat exchanger.

45h (P); C

**CHE 392**  
**Student Industrial Work Experience Scheme (SIWES I)**  
6 Credits  
On the job experience in industry having relevance to area of interest of the student within the discipline. (12 weeks during the long vacation following 300 level)
CHE 411  
**Loss Prevention in the Process Industries**  
2 Credits  
45h (T); C

CHE 421  
**Transport Phenomena III**  
3 Credits  
30h (T); C, PR: CHE 331

CHE 461  
**Biochemical Engineering**  
3 Credits  
30h (T); C, PR: CHM 212

CHE 431  
**Process Design I**  
2 Credits  
30h (T); C, PR: CHE 341

CHE 441  
**Separation Processes I**  
4 Credits  
Equilibrium stage operations. Distillation: binary distillation, McCabe-Thiele method of determining number of stages. Plate and packed column; simplified binary equation. Humidification operations and **water cooling**. Drying of solids, evaporation: multiple effect evaporators.  
60 h (T); C

CHE 451  
**Chemical Engineering Computer Applications and Analysis**  
3 Credits

30h (T), 45h (P); C, PR: ELE 276

CHE 471  Chemical Reaction Engineering I  3 Credits

45h (T); C, PR: CHE 342

CHE 481  Laboratory Workshop Practice  2 Credits
Laboratory experiments designed to teach basic and advanced laboratory techniques and practice in chemical engineering. Design of experiments. Errors in measurement of experimental results. Selected experiments in heat transfer, mass transfer, simultaneous heat and mass transfer, chemical reaction engineering, biochemical engineering process. Environmental management and assessment.

90h (P); C, PR: CHE 382

CHE 492  Student Industrial Work Experience Scheme (SIWES II)  12 Credits
On the job experience in the industry at a higher level of responsibility than CHE 392. (six months during the second semester of 400 level and the long vacation)

540h (P); C

CHE511  Biochemical Engineering I  2 Credits

45h (T); E, PR: CHE 461

CHE 513  Petroleum Processes  2 Credits

**CHE 514 Technology of Coal Processing**  
2 Credits  

30h (T); E

**CHE 521 Process Optimization**  
2 Credits  

45h (T); C, PR: MEE 362

**CHE 522 Process Integration**  
2 Credits  

30h (T); C

**CHE 523 Technology of Inorganic Chemicals**  
2 Credits  

30h (T); E

**CHE 524 Technology of Pulp and Paper**  
2 Credits  

30h (T); E

**CHE 531 Process Design II**  
2 Credits

**CHE 532 Process Design III (Project)**
2 Credits
Students are divided into groups. Each group is assigned a chemical engineering design problem involving the study of a process. Each group is allowed two months to complete the design project. The project will involve the choice and preparation of process flow sheet, calculation of material and energy balances, equipment selection and specification, detailed design of some plant items, plant layout and instrumentation, economic analysis and safety considerations. A design report is required to be submitted by each individual student at the end of the two months period.

30 h (T); C, PR: CHE 431

**CHE 533 Technology of Household Chemical Products**
2 Credits
The chemical composition, equipment selection and design of some household products: paint, adhesives, cosmetics, food and beverages, disinfectant, polish, soap and detergents, etc.

15h (T), 45h (P); E, PR: CHM 318

**CHE 564 Polymer Engineering II**
2 Credits

30h (T); E, PR: CHE 362

**CHE 541 Separation Processes II**
3 Credits

45h (T); C, PR: CHE 441

**CHE 544 Environmental Pollution and Control**
2 Credits

30h (T); C
CHE 552  Process Dynamics and Control  
Introduction: introduction to process dynamics and control. Process dynamics: Review of Laplace transforms and transient 
behaviour of 1st, 2nd and higher order systems. Process control: Transfer functions. Block algebra, feed forward and feedback 
control. Frequency response analysis. Proportional Integral Derivative (PID) algorithm. PID controller tuning. Introduction to multi 
- variable control.
45h (T); C, PR: ELE202, MEE362

CHE 571  Chemical Reaction Engineering II  
Determination of rate controlling steps, modeling and simulation of polymerization reactors. Design of fixed and fluidized bed 
optimum temperature progressions. Adiabatic operations and non-adiabatic operations. Exothermic reactions in mixed flow reactor. 
Multiple reactions: product distribution and temperature. Temperature and vessel size for maximum production. Non ideal flows: 
30h (T); C, PR: CHE 342, CHE 471

CHE 593  Chemical Engineering Project I  
Original individual student project related to a prescribed Chemical Engineering problem involving literature review, identification, 
definition and formulation of the problem, theoretical investigations, modelling simulation, analysis and design.
135h (P); C

CHE 594  Chemical Engineering Project II  
Second phase of investigations involving the implementation of the designed model. Debugging, calibration, testing, data 
collection, analysis and presentation of a comprehensive written report of the investigations.
135h (P); C

Note: Details of other courses in the Department of Chemical Engineering are available in relevant Departments as follows:
ABE courses in Agricultural and Biosystems Engineering;
GNS courses in General Studies Division;
GSE from Technical Entrepreneurship Centre;
CVE courses in Civil Engineering Department;
ELE courses in Electrical and Electronics Engineering Department;
MEE courses in Mechanical Engineering Department;
BUS courses in Department of Business Administration, Faculty of Management Sciences
STA, MAT, PHY and CHM courses in Faculty of Physical Sciences, and
BUL in Faculty of Law.
## SUMMARY

### 100 Level

**Required Courses:**
- GNS 111 (2)
- GNS 112 (2)

= 4 Credits

**Elective Courses:**
- STA 124 (2)
- STA 131 (2)

= 4 credits

At least nine (9) credits must be passed out of the following mathematics courses:
- MAT 111(3)
- MAT 112(3)
- MAT 113(3)
- MAT 114(3)

= 9 credits

At least nine (9) credits must be passed out of the following physics courses:
- PHY 115 (2)
- PHY 125 (3)
- PHY 142 (2)
- PHY 152 (3)
- PHY 191 (1)
- PHY 192 (1)

= 9 credits

At least six (6) credits must be passed out of the following Chemistry Courses:
- CHM 101 (3)
- CHM 112 (2)
- CHM 115 (2)
- CHM 116 (1)
- CHM 132 (2)

= 6 credits

### 200 Level

**Compulsory Courses:**
- CHE 222 (6)
- CHE 241 (3)
- CHE 242 (3)
- CHE 264 (3)
- CHE 283 (2)

(2)

= 19 credits

**Required Courses:**
- ABE 206 (2)
- ABE 263 (3)
- CVE 253 (3)
- CVE 254 (3)
- ELE 201 (3)
- ELE 275 (1)
- ELE 276 (2)
- MEE 217 (2)
- MEE 218 (2)
- MEE 235 (2)
- MEE 272 (2)
- GNS 211 (2)
- GNS 212 (2)

= 32 credits

Total = 51 Credits

**Direct Entry Students:**
- GNS 111 (2)
- GNS 112 (2)

= 4 Credits

### 300 Level

**Compulsory Courses:**
- CHE 311 (3)
- CHE 312 (2)
- CHE 322 (2)
- CHE 331 (3)
- CHE 341 (3)
- CHE 344 (2)
- CHE 362 (2)
- CHE 381 (2)
- CHE 382 (2)

(3)

= 30 credits

**Required Courses:**
- ABE 306 (2)
- ABE 376 (1)
- CHM 212 (3)
- CHM 235 (3)
- CHM 318 (2)
- MEE 361 (3)
- MEE 362 (3)
- GNS 311 (2)
- GSE 301 (3)

= 24 credits

Total = 42 Credits
Direct Entry Students: GNS 111 (2), GNS 112 (2), GNS 211 (2), GNS212 (2) = 8 credits

400 Level
Compulsory Courses: CHE 411 (2), CHE 421 (3), CHE 431 (2), CHE 441 (4), CHE 451 (3), CHE 461 (3), CHE 471 (3), CHE 481 (2), CHE 492 (12) = 34 credits
Required Course: ABE 463 (2) = 2 credits
Total = 36 Credits

500 Level
Compulsory Courses: CHE 521 (2), CHE 522 (2), CHE 531 (2), CHE 532 (3), CHE 541 (3), CHE 544 (2), CHE 552 (3), CHE 571 (3), CHE 593 (3), CHE 594 (3) = 26 credits
Required Courses: ABE 573 (1), BUL 506 (3), BUS 501(3) = 7 Credits
Elective courses: At least eight (8) credits must be passed out of the following Elective Courses: CHE 511 (2), CHE 513 (2), CHE 514 (2), CHE 523 (2), CHE 524 (2), CHE 533 (2), CHE 534 (2), CHE 562 (2) = 8 credits
Total = 41 Credits

Graduation requirements:
1. Major Engineering courses (ABE, CHE, CVE, ELE & MEE) 127 Credits
2. Sciences courses (CHM: 235,212,318, 325) 10 Credits
3. Students’ Industrial Works Experience Scheme (SIWES I and II) 18 Credits
4. Students Work Experience Programme (SWEP) 6 Credits
5. General Studies Courses: (GNS 111, 112, 211, 212, 311) 10 Credits
6. Minimum Electives 8 Credits
7. Economics, Law, Management and Entrepreneurship courses
9 Credits
Total = 186 Credits

UTME: 186 Credits
DE (200L): 186 Credits
DE (300L): 139 Credits

Computation of Grade Point
1. 100 level courses are not used for computation of CGPA except GNS 111 (2), GNS 112 (2)
2. The 12 credits of SIWES must be passed but they are not used for computation of CGPA
3. The minimum Credits that will be used to compute the CGPA for all options are as follows:
   For UTME/DE at 200 and 300 levels

<table>
<thead>
<tr>
<th>Level</th>
<th>UTME</th>
<th>DE (200L)</th>
<th>DE (300L)</th>
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</thead>
<tbody>
<tr>
<td>100 Level</td>
<td>4</td>
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</tr>
<tr>
<td>200 Level</td>
<td>51</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>300 Level</td>
<td>48</td>
<td>48</td>
<td>56</td>
</tr>
<tr>
<td>400 Level</td>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>500 Level</td>
<td>41</td>
<td>41</td>
<td>41</td>
</tr>
<tr>
<td>Total</td>
<td>168 Credits</td>
<td>168 Credits</td>
<td>121 Credits</td>
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</tbody>
</table>
### DEPARTMENT OF CIVIL ENGINEERING

#### Course Description

B. Eng. Civil Engineering

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVE 222</td>
<td>Students Work Experience Program (SWEP)</td>
<td>6</td>
<td>Introduction to practices and skills in general engineering through instruction in operation of hand and powered tools for wood, metal cutting and fabrication; Supervised hands-on experience in safe usage of tools and machines for selected tasks; General practices on automobile repairs, survey, civil and electrical engineering works; Micro-structural examination of materials. 270 h (P); C</td>
</tr>
<tr>
<td>CVE 254</td>
<td>Engineering Mechanics II</td>
<td>3</td>
<td>Hooke’s law: stresses and strains due to loading and temperature changes. Torsion. Stress circle. Deflection of beams with symmetrical and combined loadings. Elastic buckling of columns. Shear forces and bending moments. Analytical methods for structures. 45h (T); C</td>
</tr>
<tr>
<td>CVE 322</td>
<td>Soil Mechanics</td>
<td>3</td>
<td>Physical and mechanical properties. Structure and classification of soils. Formation of soils. Soil mineralogy. Phase relationships. Shear strength, consolidation, stress distribution, settlement, compaction and permeability. 30h (T), 45h (P); C</td>
</tr>
<tr>
<td>CVE 341</td>
<td>Civil Engineering Materials</td>
<td>3</td>
<td>Production, structure and physical properties of major civil engineering materials: cement, concrete, bitumen, metals, timber, masonry, ferrocement. Applications for construction purposes. 45h (T); C</td>
</tr>
<tr>
<td>CVE 351</td>
<td>Engineering Surveying I</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
Basic principles of surveying, instruments, methods and computations of distance, angles and elevations and stadia measurements: Theodolite traversing. Computation of areas by analytical and planimeter methods. Fieldwork, pacing, basic line measurement, leveling and compass traversing. Introduction to Theodolite traversing.

30h (T), 45h (P); C

CVE 352 Engineering Surveying II 3 Credits
Theodolite traversing, tacheometry, analysis, design and methods of setting horizontal and vertical curves on transportation routes. Longitudinal mass-Haul diagram. Introduction to photogrammetry field work; curve-setting and earthwork computation.
45 (T); C, PR: CVE 351

CVE 353 Survey Camp 2 Credits
Use of knowledge of levelling and theodolite/compass traversing for detailed topographical mapping of areas (2 week during Harmattan Semester break).
90h (P); C, PR: CVE 351

CVE 352 Structural Design I 2 Credits
30h (T); C, PR: CVE 365

CVE 363 Strength of Materials 2 Credits
30h (T); C, PR: CVE 254

CVE 365 Structural Analysis I 2 Credits
Theory and problems in determinate structures. General structural analysis as applied to beams, trusses and frames. Deflection analysis. Influence lines and applications.
30h (T); C, PR: CVE 254

CVE 366 Structural Analysis II 2 Credits
30h (T); C, PR: CVE 365
CVE 378  Elements of Architecture  2 Credits
15h (T); 30h (P), C, PR: MEE 218

CVE 383  Civil Engineering Laboratory I  2 Credits
Laboratory investigations and report submission for selected experiments in Civil Engineering Materials and Hydraulics.
90h (P); C

CVE 384  Civil Engineering Laboratory II  2 Credits
Laboratory investigations and report submission for selected experiments in surveying II and soil mechanics.
90h (P); C

CVE 392  SIWES I  6 Credits
On the job experience in industry hose for its relevant e Student’s major.
(10 weeks during the long vacation following 300 level)
270h (P); C

CVE 421  Applied Soil Mechanics and Foundation  3 Credits
45h (T); C, PR: CVE 322, CVE 362

CVE 463  Structural Analysis III  2 Credits
30h (T); C, PR: CVE 366

CVE 465  Structural Design II  2 Credits
Design philosophies for steel and wood structures. Design of members subjected to tension, compression, flexure, shear, torsion, combined flexure/torsion/axial load. Design of connections. Introduction to prestressed concrete design.
30h (T); C, PR: CVE 362, CVE 366

CVE 473  Transportation Engineering I  3 Credits
Definition and components of transportation engineering. Types and components of fixed transportation facilities. Ride function of facilities. Effects of vehicle loads and water on performance of ride function of railways, runways and roads. Characteristics of highway materials and their improvement methods. Traffic characteristics and application in geometric design. Laboratory experiments on soil stabilization and testing of bituminous materials.

**45h (T); C; PR: CVE 341, CVE 351**

**CVE 481 Civil Engineering Laboratory III**
Laboratory investigations and report submission for selected experiments in environment. Demonstrations drawn from topics in prescribed areas.

**90h (P); C**

**CVE 485 Civil Engineering Practice**

**30 (T); C**

**CVE 492 SIWES II**
On the job experience in industry at a higher level of responsibility than CVE 392. (During the Rain Semester of 400 Level and long vacation).

**540 h (P); C**

**CVE 524 Geotechnical Engineering**

**30h (T); C, PR: CVE 421**

**CVE 562 Design of Structures**

**45h (T); C, PR: CVE 465, CVE 362**

**CVE 565 Structural Analysis IV**

**30h(T); C, PR: CVE 463**
CVE 567  Advanced Structural Analysis and Design I  3 Credits
30h (T), 45h (P); E, PR: CVE 463, CVE 465

CVE 568  Advanced Structural Analysis and Design II  3 Credits
Planning and design of structures. Analysis and design of prestressed concrete and composite steel-concrete structures. Modern structural forms and methods of construction. Design projects for complete structure will be assigned in groups or individually.
30h (T), 45h (P) ; E, PR : CVE 473

CVE 575  Transportation Engineering II  2 Credits
Road pavement characteristics. Simple design method. Construction and maintenance of roads including labour-based methods. Study of Nigerian highways design policies, standard and specifications. Comparisons with international standards.
30h (T), 30h (P); C, PR: CVE 473

CVE 577  Transportation Systems Analysis and Design I  3 Credits
Roads and railways traffic analysis and design, including definition and determination of level of service and capacity for different types of roads and railways. Design of traffic control schemes.
30h (T), 45h (P); E, PR: CVE 473

CVE 578  Transportation System Analysis and Design II  3 Credits
Planning and management methods for roadways, waterways, runways and railways. Pavement analysis and design methods.
30h (T), 45h (P); E, PR: CVE 473, CVE 577

CVE 581  Construction Engineering  2 Credits
Introduction to estimating cost, time and materials, construction methods, planning and scheduling. Critical Path Methods, PERT. Equipment selection and quality control. Economic and financial problems in construction and execution of public works.
30h (T); C

CVE 582  Civil Engineering Services  2 Credits
30h (T); C
CVE 584  Computer Applications in Civil Engineering  2 Credits
Review of computer programming and programming languages (FORTAN, BASIC, Ctt, etc). Computer applications in structural
and highway engineering. Individual or group projects on computer solutions of specific problems.
15h (T), 45h (P); C

CVE 585  Advanced Geotechnical Engineering I  3 Credits
Review of structural foundations: types, choice and design. Slope stability analysis: total stress, parallel slope, tension crack,
Swedish circle, Taylor’s technique, bishop conventional and resource methods, factor of safety. Bearing capacity: ultimate, safe and
allowable. Lower and upper bound theorems and applications.
45h (T); E, PR: CVE 421, CVE 524

CVE 586  Advanced Geotechnical Engineering II  3 Credits
Earth pressure design: types of walls, limiting equilibrium equations, earth pressure at rest candling active and passive pressure
equations and applications to gravity and Counterfort walls. Coulomb methods and applications. Sheet pile walls: cantilever and
propped/anchored, Revised safety factor, examples of design. Reinforced earth theory and application to walls. Pile foundations:
types, design approaches, empirical and analytical design, skin frictions, piles in clay and granular soils. Buried structures and
tunnels. Ground improvement techniques.
45h (T); E, PR: CVE 421, CVE 524

CVE 593  Civil Engineering Project I  4 Credits
Original individual student project related to a prescribed Civil Engineering problem, involving literature review, identification,
definition and formulation of the problem, theoretical and/or experimental investigations, modeling, simulation analysis and design.
15h (T), 135h (P); C

CVE 594  Civil Engineering Project II  4 Credits
Second phase of project work involving the implementation of the designed mode, debugging, calibration, testing, data collection,
analysis, and presentation of a comprehensive written report of the investigation.
15h (T); 135h (P); C

Note: Details of other courses in the Department of Civil Engineering are available in relevant Departments as follows:
ABE courses in Agricultural and Biosystems Engineering;
GNS courses in General Studies Division;
GSE from Technical Entrepreneurship Centre;
CHE courses in Chemical Engineering Department;
ELE courses in Electrical and Electronics Engineering Department;
MEE courses in Mechanical Engineering Department;
STA, MAT, PHY, GEM and CHM courses in Faculty of Physical Sciences, and
BUL in Faculty of Law.

SUMMARY

100 LEVEL

Required Courses: GNS 111 (2), 112 (2) = 4 Credits

Elective Courses: STA 131 (2), 124 (2) = 4 Credits

At least 9 Credits must be passed out of the following:
MAT 111 (3), 112 (3), 113 (3), 114 (3) = 9 Credits

At least 9 Credits must be passed out of the following:
PHY 115 (2), 125 (3), 142 (2), 152 (3), 191 (1), 192 (1) = 9 Credits

At least 6 Credits must be passed out of the following:
CHM 101 (3), 112 (2), 115 (2), 116 (1), 132 (2) = 6 Credits

Total = 4 Credits

200 LEVEL

Compulsory Courses: CVE 253 (3), CVE 254 (3), CVE 222 (6), CVE 283 (2), 284 (2) = 16 Credits

Required Courses: GNS 211 (2), 212 (2), MEE 217 (2), 218 (2), 235 (2), 272 (2),
242 (3), 264 (3), ELE 201 (3), 202 (3), 275 (1), 276 (2),
= 35 Credits

CHE 241

ABE 263 (3), 206 (2)
Total   = 51 Credits

Direct Entry Students: GNS 111 (2) and 112 (2) = 4 Credits

300 LEVEL

Compulsory Courses: CVE 322 (3), 341 (3), 351 (3), 352 (3), 353 (2), 362 (2) 363 (2), 365 (2), CVE 378 (2), CVE 383 (1), 384 (1), 392 (6) = 32 Credits

Required Courses: MEE 361 (3), MEE 362 (3), GEM 217 (1), 319 (2), GNS 311 (2), GSE 301 (3), ELE 312(3), ABE 376 (1), 306 (2) = 20 Credits

Total = 52 Credits

Direct Entry Students: GNS 111 (2), 112 (2), 211 (2) and 212 (2) = 8 Credits

400 LEVEL

Compulsory Courses: CVE 492(12), 421(3), 463(2), 465(2), 473(3), 481(2), 485(2) = 26 Credits

Required Courses: ABE 463 (2), WEE411 (3), WEE 431(3), WEE433 (2) = 10 Credits

Total = 36 Credits

500 LEVEL

Compulsory Courses: CVE 565 (2), 575 (2), 581 (2), 593 (4), 524(2), 562(3), 582(2), 584(2), 594 (4) = 23 Credits

Required Courses: ABE 501(3), 573 (1), BUL 506 (3), WEE 511 (2) = 9 Credits
Elective Courses: Students are expected to choose any two from the following, one in each semester:
WEE 515 (3), WEE 516(3), CVE 567(3), 568(3), CVE 577(3), 578(3), CVE 585 (3) and 586(3)
= 6 Credits

Total = 38 Credits

GRADUATION REQUIREMENTS
1. Major Engineering Courses (ABE, CHE, CVE, ELE, MEE, WEE) 138 Credit
2. Courses from other Department outside the Faculty
   (GEM 217, GEM 319) 3 Credits
3. General Studies Courses: (GNS 111, 112, 211, 212, 311) 10 Credits
4. Students’ Industrial Works Experience Scheme (SIWES) 18 Credits
5. Students’ Work Experience Programme (SWEP) 6 Credits
6. Management, Economics and Entrepreneurship Skill 6 Credits
7. Total Credits Required 181 Credits

UTME: 181 Credits

DE (200): 181 Credits

DE (300): 134 Credits

Graduation Requirements (Option 2)

Computation of Grade Point

1. 100 level courses are not used for computation of CGPA except GNS 111 (2), GNS 112 (2)
2. The 6 credits of SWEP must be passed and used for computation
3. The 18 credits of SIWES must be passed but they are not used for computation of CGPA
4. The minimum credits that will be used to compute the CGPA for all options are as follows:

   For UTME / DE at 200 and 300 levels
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<thead>
<tr>
<th>Level</th>
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<th>DE (300L)</th>
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DEPARTMENT OF COMPUTER ENGINEERING
Course Description

B. Eng. Computer Engineering

CPE 222  Students Work Experience Programme  6 Credits
Introduction to practices and skills in general engineering through instruction in operation of hand and powered tools for wood and metal cutting and fabrication. Supervised hands-on experience in safe usage of tools and machines for selected tasks.
270h (P); C

CPE 283  General Engineering Laboratory Course I  2 Credits
90h (P); C

CPE 284  General Engineering Lab Course II  2 Credits
Laboratory investigations and report submission for selected experiments and Projects in fundamentals of Thermodynamics. Engineering Materials, Applied Mechanics II and Applied Electricity II.
90h (P); C
CPE 311  
**Electric Circuit Theory**  
3 Credits  
45h (T); PR: ELE201; C

CPE 312  
**Measurement and Instrumentation**  
2 Credits  
General Instrumentation, Basic Meter in DC measurement, Basic meter in AC measurements; DC and AC bridges and their applications; Electronic instruments for the measurement of voltage, current resistance and other circuit parameter, electronic voltmeters, AC voltmeters using rectifiers, electronic multimeter, digital voltmeters; oscilloscope: vertical deflection system, horizontal deflection system, probes, sampling CRO; square-wave and pulse generator, signal generators, function generators, wave analysers, Electronic counters and their applications: time base circuitry, universal counter measurement modes; Analog and digital data acquisition systems.  
30h (T); C

CPE 321  
**Analogue Electronic Circuits**  
3 Credits  
45h (T); C

CPE 331  
**Electromagnetic Fields & Waves**  
3 Credits  
Polarization of waves. Poynting’s Theorem and the conservation of energy, the field definitions of impedance, admittance. Wave Propagation and Transmission Theory.

**45h (T); C**

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**CPE 336 Digital Electronics**

3 Credits


45h (T); C

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**CPE 341 Software development Techniques**

3 Credits


45h (T), 45h (P), PR: ELE 276; C

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**CPE 342 Software Engineering**

3 Credits


30h (T), 45h (P), PR: ELE 276, CPE 341; C

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CPE 372  Data Communications and Computer Network  3 Credits
30h (T); C

CPE 381  Laboratory Course I  1 Credit
Laboratory experiments drawn from all engineering courses offered in Harmattan semester. 
135h (P); C

CPE 382  Laboratory Course & Mini-Project  2 Credits
Laboratory experiments drawn from all the engineering courses offered in Rain semester. Mini-projects to illustrate understanding of the courses. 
90h (P); C

CPE 392  SIWES: Industrial Training I  6 Credits
On the job experience in industry chosen for its relevance to student’s major. (12 weeks during the long vacation following 300 level). 
270h (P); C

CPE 424  Introduction to Digital System Design with VHDL  2 Credits
30h (T), 30h (P), PR: CPE 336; C

CPE 436  Prototyping Techniques & Packaging  2 Credits
Introduction: Grounding, ground plane, digital ground, analogue ground, power decoupling, inductance and capacitive effects, feedthrough capacitors. Soldering techniques for pass-through and surface mount components, desoldering. Breadboarding, veroboarding. Wire wrapping techniques. Radio Frequency design and implementation techniques. Printed Circuit Board techniques, and production of PCB. Use of PCB CAD

30h (T), 30h (P); C

**CPE 438 Artificial Intelligence & Application**  
2 Credits  
Artificial Neural Networks (ANN), Genetic Algorithm (G.A.) Concepts, Simulated Annealing, theories and Applications; Agent-based Systems, supervised and unsupervised learning; reinforcement learning.

30h (T); C

**CPE 442 Control Theory I**  
3 Credits  

45h (T), PR: ELE 311; C

**CPE 444 Assembly Language Programming**  
2 Credits  
Language level of abstraction and effect on machine, characteristics of machine code, advantages, justifications of machine code programming, instruction set and dependency on underlying processor. Intel 8086 microprocessor assembly language programming: Programming model as resources available to programmer, addressing modes, instruction format, instruction set- arithmetic, logical, string, branching, program control, machine control, input/output, etc; assembler directives, hand-assembling, additional 80x86/Pentium instructions. Modular programming. Interrupt and service routine. Interfacing of assembly language to C. Intel 80x87 floating point programming. Introduction to MMX and SSE programming. Motorola 680x0 assembly language programming. Extensive practical engineering problems solving in assembly language using MASM for Intel, and cross-assembler for Motorola.

30h (T), PR: CPE 341, CPE 336; C

**CPE 452 Communication Principles**  
2 Credits  
AM and FM systems. Block diagram of a superheterodyne AM radio receiver, AM broadcast band and specification. Antenna: TV broadcast band and specification. Signal format, transmitter and receiver block diagrams of Black and White TV, and Color TV.

30h (T), PR: CPE 311; C

CPE 472 Microprocessor System & Interfacing  3 Credits
INTEL8086 microprocessor system: CPU, memory, I/O, and buses subsystems, basic operation of a microprocessor system, signal pinouts. Hardware & Software interrupts. Assembly language programming. Interfacing to memory, I/O devices, 8255 PPI, 8251USART, keyboard, keypad, serial LCD, ADC/DAC chips. Memory address decoding techniques, serial port & USB interfacing. Motorola MC68000 microprocessor system: CPU, memory, I/O, and buses subsystems, basic operation of a microprocessor system, signal pinouts. Assembly language programming. Interfacing to memory, I/O devices, 6850 ACIA, 6821 PIA USART, keyboard, keypad, serial LCD, ADC/DAC chips.

45h (T), PR: CPE321, CPE372; C

CPE 482 Laboratory Course III  2 Credits
Laboratory experiments on Computer hardware and software, Electronics, communication and Assembly Language Programming

90h (P); C

CPE 492 SIWES: Industrial Training I  6 Credits
On the job experience in industry chosen for its relevance to student’s major. (12 weeks during the long vacation following 400 level).

270h (P); C

CPE 501 Design & Installation of Electrical & ICT Services  2 Credits

30 (T); C

CPE 502 Reliability and Maintainability of Computer Systems  2 Credits
Introduction to reliability, maintainability, reliability specification and metrics. Application to computer hardware system, communication equipment, power systems, electronic components. Basic maintenance types, and procedures of computer and digital communication system. Fault troubleshooting techniques. QoS and time of availability of data communication. Quality control techniques. Design for higher reliability, fault tolerance. Software Reliability: software reliability specification, software reliability Metrics, fault avoidance, fault tolerance, programming for reliability, software safety and hazard analysis. Comparison of hardware and software realiability. Software Quality and Assurance: definition of software quality, software quality factors, quality
control, cost of quality, quality assurance. SQA activities, formal technical reviews, software quality metrics, statistical quality assurance. ISO Standards, Requirements and Certification

30h (T); C

CPE 531  Digital Signal Processing  3 Credits

45h (T); C

CPE532  Computer Security Techniques  2 Credits

30h (T); C

CPE 541  Control Theory II  2 Credits

30h (T), PR: CPE 442; C

CPE 543  Technopreneurship & CyberLaw  2 Credits

30h (T); C
CPE 544  Introduction to Robotic & Automation  2 Credits
Robot classification and manipulation. Technology and history of development of robots. Applications. Direct and inverse
kinematics: arm equation. Workspace analysis and trajectory planning. Differential motion and statics. Manipulator dynamics. End-
interface. Robot control system. Circuit and system configuration. Task oriented control. Robot control programming. Fuzzy logic
and AI based robot control. Fundamentals of automation. Strategies and economic consideration. Integration of systems. Impact to
the production factory. Evaluation of conventional processes. Analysis of automated flow lines. Assembly systems and line
30h (T), PR: CPE 442; E

CPE 545  Control Theory III  2 Credits
Digital control: Concept of sampling: Z-transform, inverse zero-order-hold, transfer functions of sampled data systems, stability
analysis. Finite word length effect. Digital 3-term PID design. State Space: State variables of dynamic system, formulation of state
vector differential equation, solution state equation, transition matrix, eigenvalues and eigenvectors. System response and stability.
Nonlinear control: Common types and effects of nonlinearities, phase plane and describing function analysis, closed loop response,
limit cycle, and stability. Introduction to Fuzzy control system
45h (T), PR: CPE 442; E

CPE 546  Embedded System and Design  2 Credits
Introduction to embedded system, components, characteristics, applications. Intel 8051/8031 Micro-controller: Features of the
8051/8031 family, block diagram and definitions of the pin of the 8051, I/O port structure, memory organization. Interfacing to
external memory, keypad, seven-segment LED display, ADC and DAC chips, and input / output port expansion, description and
uses of hardware development tools. MOTOROLA M6811 Micro-controller: Features of the M6811 family, block diagram and
definitions of the pin of the M6811, I/O port structure, memory organisation: general purpose RAM, bit addressable RAM, register
bank, special function registers, external memory, memory space mapping and decoding, bus control signals timing. Assembly
Language Programming. On-chip peripheral devices and I/O interfacing. Introduction to PIC microcontrollers.
30h (T), PR: CPE 444; C

CPE 547  Power Electronics  2 Credits
Overview of Power Semiconductor Switches: Power diodes, Thyristors, Power MOSFET, G.T.O., IGBT, Field controlled switches
(SiT and SiTH). Comparison of Semiconductor Switches, Desired Characteristics in Controllable Switches, Drive and Snubber
Circuits. Line-Commutated Diode Rectifiers: Uncontrolled rectifier, Single-Phase Diode Bridge Rectifiers, Three-Phase Full-Bridge
Rectifiers, Inrush Current and Over-voltages at Turn-On, Line-Current Harmonics and Power Factor, Phase-Controlled Rectifiers

30h (T), PR: CPE 321; E

CPE 548  Fuzzy Logic & Programming  2 Credits
Fuzzy set theory, set theoretic operations, comparison between crisp sets and fuzzy sets. Fuzzy operators. Fuzzy relations and compositions on the same and different product spaces. Max-Min composition, Max-Product composition, fuzzy relational matrix, sup-star composition. Hedges or modifiers of linguistic variables, fuzzy logic vs. probability. Fuzzy reasoning and implication, the fuzzy truth tables, traditional propositional logic and the rule of inference, the Modus Ponens and Modus Tollens, fuzzy modeling with causal IF-THEN statements. Fuzzy Models, fuzzy logic systems, combination of fuzzy basis functions, universal approximator, fuzzy neural network, fuzzy associate memory matrix, self-learning fuzzy systems. Fuzzy logic system applications.
30h (T); E

CPE 549  Mobile Communication & Network  2 Credits
Evolution of mobile radio communications. Examples of mobile radio systems: radio paging, cordless telephones, cellular radio. A basic cellular system, Frequency reuse, Roaming, Hand-off strategies, Co-channel interference, Traffic and Grade of service, System capacity, Improving capacity of cellular system. Propagation path loss, multipath propagation problem, Raleigh fading, Rician distribution. Doppler effect. Field strength prediction models, co-channel interference and reduction, adjacent channel interference, near-far problem. Standards and overview of analogue and digital cellular systems: AMPS, TACS, GSM, CT2, PCN, DECT, PHS. Frequency management and channel assignment, multiple access techniques. GSM; CDMA; W-CDMA; UWC-136; Global Positioning System.
30h (T); E

CPE 551  PARALLEL PROCESSING  2 Credits
30h (T); E
CPE552  Advanced Digital Design  2 Credits
Advanced features of VHDL (library, package and subprograms). Structural level modeling, Register-Transfer level modeling, FSM with datapath level modeling, Algorithmic level modeling. Introduction of ASIC, Types of ASIC, ASIC design process, Standard cell ASIC synthesis, FPGA Design Paradigm, FPGA synthesis, FPGA/CPLD Architectures. VHDL Design: Top-down design flow, Verification, simulation alternatives, simulation speed, Formal verification, Recommendations for verification, Writing RTL VHDL code for synthesis, top-down design with FPGA. VHDL synthesis, optimization and mapping, constraints, technology library, delay calculation, synthesis tool, synthesis directives. Computer-aided design of logic circuits.
30h (T); E

CPE 553  DIGITAL IMAGE PROCESSING  2 Credits
30h (T); E

CPE 554  Cryptography Principles & Applications  2 Credits
30h (T); E

CPE 556  Multimedia Technology & Programming  2 Credits
physical interfaces. Servers for interactive TV services. Overview of transmission systems: the ADSL concept, broadband multimedia delivery over copper, the hybrid fiber/copper concept.

30h (T); E

CPE 557  Digital Speech Processing  2 Credits

30h (T); E

CPE 558  Mobile Applications Development  2 Credits
Mobile devices operating systems; Android, ios and windows mobile; Java apps; objective C apps.

30h (T); E

CPE 560  Electromagnetic Interference  2 Credits


30h (T); E

CPE 561  Computer Organisation and Architecture  2 Credits
Von-Neuman architecture vs Harvard architecture. Single address machine. Introduction to CISC and RISC architecture: principle of operation, merits, demerits. Storage and Input/Output Systems: Computer function (fetch and execute cycles), interrupts, interconnection structures (Bus structure and bus types), Overview of memory system, memory chip organization and error correction, cache memory, memory storage devices. Overview of I/O, programmed and interrupt-driven I/Os, DMA, I/O channel and I/O processor. Control Unit: Micro-operations, control of the CPU, hardwired implementation, control unit operation, micro-instruction sequencing and execution, micro-programmed control. Use INTEL family, and MOTOROLA family. Instruction Sets
and Registers. Achieving high performance: pipelining, storage hierarchy, units with function dedicated for I/O. RISC processors.

Operating System: Overview of operating systems.
45h (T), PR: CPE 336; C

CPE 593  Project I  4 Credits
Original individual student project related to a prescribed electrical engineering problem involving literature review, identification, definition and formulation of the problem, theoretical investigations, modelling simulation, analysis and design.  
30h(T), 150h (P); C

CPE 594  Project II  4 Credits
Second phase of investigations involving the implementation of the designed model, debugging, calibration, testing, data collection and analysis, and presentation of a comprehensive written report of the investigations. 
180h (P); C

OPTIONS

1. Embedded Systems & Automation
2. Computer Hardware & Software Systems
SUMMARY
100 LEVEL

Required Courses:  GNS 111 (2), GNS 112 (2)  = 4 Credits
Elective Courses:   STA 131 (2), STA 124 (2)  = 4 Credits

At least 9 credits must be passed out of the following:
MAT 111(3), 113 (3), 112 (3), 114 (3)  = 9 Credits
At least 9 credits must be passed out of the following:
PHY 115 (2), 125 (3), 142 (2), 152 (3), 191 (1), 192 (1)  = 9 Credits
At least 6 credits must be passed out of the following:
116 (1), 132 (2)  = 6 Credits

200 LEVEL

Compulsory Courses:  CPE 283 (2), CPE 222 (6), CPE 284 (2)  = 10 Credits

Required Courses:   ELE 201 (3), ABE 263 (3), CHE 241 (3), ELE 275 (1), CVE 253 (3),
                    GNS 211 (2), MEE 217 (2), MEE 235 (2), ABE 206 (2), CHE 242 (3),
                    CHE 264 (3), ELE 202 (3), ELE 276 (2), CVE 254 (3), GNS 212 (2),
                    MEE 218 (2), MEE 272 (2)  = 41 Credits

Total  = 51 Credits

Direct Entry Students:  GNS 111 (2), GNS 112 (2)  = 4 Credits

300 LEVEL
Compulsory Courses: CPE 311 (3), CPE 321 (3), CPE 331 (3), CPE 341 (3), CPE 381 (1), CPE 392 (6)
= 31 Credits

Required Courses: GNS 311 (2), GSE 301 (3), MEE 361 (3), MEE 362 (3), ABE 306 (2), ABE 376 (1)
= 14 Credits

Total = 45 Credits

Direct Entry Students: GNS 111 (2), GNS 112 (2), GNS 211 (2), and GNS 212 (2) = 8 Credits

400 LEVELS

Compulsory Courses: CPE 424 (2), CPE 436 (2), CPE 438 (2), CPE 444 (2), CPE 442 (3), CPE 452 (2), CPE 472 (3), CPE 482 (2), CPE 492 (6) = 24 Credits

Required Course: ABE 464 (2) = 2 Credits

Total = 26 Credits

500 LEVEL

Compulsory Courses: CPE 501 (2), CPE 531 (3), CPE 543 (2), CPE 561 (2), CPE 593 (4), CPE 502 (2), CPE 532 (2), CPE 546 (2), CPE 594 (4), CPE 541 (2)
= 25 Credits

Required Courses: ABE 501 (3), ABE 573 (1), BUL 502 (3) = 7 Credits

Elective Courses: Students are expected to choose four of the courses in any of their preferred option, two in each semester in addition to MME 524 (3).

Embedded Systems and Automation Option
CPE 545 (2), CPE 547 (2), CPE 544 (2), CPE 548 (2)
Computer Hardware and Software Systems
Only 8 credits must be passed out of the following courses in this option: CPE 551 (2), CPE 553 (2), CPE 554 (2), CPE 556 (2) Total = 11 Credits

GRADUATION REQUIREMENTS

1. Major Engineering Courses (ABE, CHE, CVE, ELE, MEE, MME) 124 Credits
2. Students’ Industrial Works Experience Scheme (SIWES) 12 Credits
3. Students Work Experience Programme (SWEP) 6 Credits
4. General Studies Courses: (GNS 111, 112, 211, 212, 311) 10 Credits
5. Minimum Electives 11 Credits
6. Management, Law, Economics and Entrepreneurial Skill courses (GSE 301 (3), BUL 506 (3)) 6 Credits

Total = 169 Credits

UTME: 169 Credits

DE (200L): 169 Credits

DE (300L): 122 Credits

COMPUTATION OF GRADE POINT

1. 100 level courses are not used for computation of CGPA except GNS 111 (2), GNS 111 (2)
2. The 12 credits of SIWES must be passed but they are not used for computation of CGPA
3. The minimum Credits that will be used to compute the CGPA for all options are as follows:
   For UME/DE at 200 and 300 levels

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<th>Level</th>
<th>UTME</th>
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<td><strong>157 Credits</strong></td>
<td><strong>157 Credits</strong></td>
<td><strong>110 Credits</strong></td>
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</table>
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Course Description

B.Eng. Electrical and Electronics Engineering

ELE 201  Applied Electricity I                      3 Credits
45h (T); C

ELE 202  Applied Electricity II                      3 Credits
Basic machines – DC, synchronous alternators, transformers, equivalent circuits. Three- phase balanced circuits, PN junction diode, Bi-polar junction Transistors, Field effect transistors, fundamentals of communication Engineering, introduction of TV, Radio, and Telephone systems.
45h (T); C, PR: ELE 201

ELE 222  Students’ Industrial Work Experience Programme (SWEP)  6 Credits
Introduction to practices and skills in general engineering through instruction in operation of hand and powered tools for wood and metal cutting and fabrication. Supervised hands-on experience in safe usage of tools and machines for selected tasks.
270h (P); C

ELE 275  Computer Programming I                      1 Credit
10h (T); 20h (P); C

ELE 276  Computer Programming II                     2 Credits
Program design using pseudo-code/flowchart. Extensive examples and exercises in solving engineering problems using pseudo-code/flowchart. Computer programming using structured BASIC such as QBASIC: symbols, keywords, identifiers, data types, operators, statements, flow of control, arrays and functions. Extensive examples and exercises in solving engineering problems using QBASIC. Use of Visual programming such as Visual BASIC in solving engineering problems.
ELE 283  General Engineering Laboratory Course I  2 Credits
90h (P); C

ELE 284  General Engineering Lab Course II  2 Credits
Laboratory investigations and report submission for selected experiments and Projects in of Thermodynamics. Engineering Materials, Applied Mechanics II and Applied Electricity II.  
90h (P); C

ELE 311  Electric Circuit Theory I  3 Credits
45h (T); C, PR: ELE 201

ELE 312  Measurement and Instrumentation  2 Credits
30h (T); C, PR: ELE201

ELE 316  Electric Circuit Theory II  3 Credits
Network synthesis, ladder network, Network functions, Chebyshev filters, Active network synthesis and analysis, Non-linear circuit analysis.  
30h (T) C, PR: ELE 311

ELE 321  Electronics Circuits I  3 Credits

45h (T); C, PR: ELE 202

ELE 324  Electronics Circuits II  2 Credits
30h (T); C, PR: ELE 321

ELE 331  Electromagnetic Fields and Waves I  3 Credits
Electrostatics: electric field, potential, Coulomb’s Gauss law, Laplace, Poisson equations, electric displacement, dipoles, boundary conditions, uniqueness theorem, image method. Magnetostatics: magnetic fields, field strength, vector potential, Ampere’s law, Magnetic force, moving charge, electromagnetic induction, Maxwell’s equations, free space wave propagation.

45h (T); C, PR: ELE 202;

ELE 342  Applied Computer Programming  2 Credits
Software development life cycle. Top-down design. Programme design using pseudo-code, flowchart. Flowchart ANSI symbols and usage. Programming using a structured language such as C: Symbols, keywords, identifiers, data types, operators, various statements, operator precedence, type conversion, conditional and control structures, array, function, recursive functions parameter passing, pointers, structure, union. File Handling. Software development in C in MS Windows, UNIX/LINUX environments.
30h (T); C, PR: ELE 276

ELE 361  Electrical Machines I  3 Credits
Energy conversion concepts, DC machines: generators, motors, shunt and series characteristics, design and construction. Transformers: equivalent circuits, design, construction and characteristics. Open/Short circuit, polarity tests. Regulation, Auto-transformers, three-phase transformer Connections.
30h (T), 45 (P); C, PR: ELE 202

ELE 362  Electrical Machines II  2 Credits
30h (T); C, PR: ELE 202, ELE 361

ELE 381  Laboratory and Mini-project I  1 Credit
Laboratory investigations and report submission for selected experiments and prescribed project drawn from first semester courses.  
45h (P); C

ELE 382  
Laboratory and Mini-project II  
2 Credits  
Laboratory investigations and report submission for selected experiments and prescribed project drawn from second semester courses.  
90h (P); C

ELE 392  
Students Industrial Work Experience Scheme I (SIWES I)  
6 Credits  
On the job experience in industry chosen for its relevance to student’s major; the student is expected to spend three months during the long vacation in an industrial establishment relevant to Electrical Engineering discipline for practical exposure.  
270h (P); C

ELE 425  
Digital Electronics  
2 Credits  
45h (T); C, PR: ELE321, ELE324

ELE 431  
Electromagnetic Fields and Waves II  
3 Credits  
Time varying Electric and magnetic fields. Propagation of electromagnetic waves in free space. Polarization of waves. Poynting’s theorem and the conservation of energy. Phase and group velocity. EM Wave propagation in material media: dielectric, conductors and ionized media. Transmission line theory including wave- guides and resonators, the Smith Chart. Radiating elements and antenna theory.  
45h (T); C, PR: ELE 311

ELE 443  
Control Engineering I  
3 Credits  
45h (T); C, PR: ELE 311
ELE 447  Assembly Language Programming  2 Credits
Introduction: Language level of abstraction and effect on machine, characteristics of machine code, advantages, justifications of machine code programming, instruction set and dependency on underlying processor. Intel 8086 microprocessor assembly language programming: Programming model as resources available to programmer, addressing modes, instruction format, instruction set-arithmetic, logical, string, branching, program control, machine control, input/output, etc. assembler directives, hand-assembling, additional 80x86/Pentium instructions. Modular programming. Interrupt and service routine. Interfacing of assembly language to C. Intel 80x87 floating point programming. Introduction to MMX and SSE programming. Motorola 680x0 assembly language programming. Extensive practical engineering problems solving in assembly language using MASM for Intel, and cross-assembler for Motorola.
30h (T); C, PR: ELE 341

ELE 451  Principles of Communication Engineering  3 Credits
45h (T); C, PR: ELE 311

ELE 453  Data Communications and Computer Networking  2 Credits
30h T, 45 (P); C, PR: ELE 202

ELE 471  Electric Power Principles  3 Credits
Types of power station, operation, auxiliaries, economics of operation – stations, substations power supply economics, tariffs. Power factor correction. Polyphase theory. DC, AC power distribution, network calculations. Overhead line conductors. Corona effect, voltage control, circuit breakers, load forecast, sitting of generating plants.
45h (T); C, PR: ELE 364
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ELE 481</td>
<td>Laboratory Course III</td>
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<tr>
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<td>Laboratory experiments for Electronics, control, communication, Power and assembly language programming.</td>
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<td>90h (P); C</td>
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<tr>
<td>ELE 492</td>
<td>Student Industrial Work Experience Scheme (SIWES)</td>
<td>6</td>
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<tr>
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<td>The student is expected to spend six months in an industrial establishment relevant to Electrical and Electronics Engineering discipline for practical exposure.</td>
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<tr>
<td>ELE 505</td>
<td>Design of Electrical and ICT Services</td>
<td>3</td>
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<td>45h (T); C</td>
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<tr>
<td>ELE 506</td>
<td>Reliability and Maintainability of Electrical Systems</td>
<td>3</td>
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<td></td>
<td>45h (T); C</td>
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<tr>
<td>ELE 523</td>
<td>Power Electronics</td>
<td>2</td>
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<tr>
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<td>Rectification and smoothing techniques. Voltage and current regulation, regulator circuits, the thyristor or SCR and its applications: timing circuits, motor speed control, welding and heating. Power transistor and integrated circuits.</td>
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<td>30h (T); C, PR: ELE 364, 324</td>
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<tr>
<td>ELE 541</td>
<td>Microcomputer Hardware and Software Techniques</td>
<td>2</td>
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</tbody>
</table>

**ELE 542 Digital System Design & VHDL Programming**  

**ELE 545 Control Engineering II**  

**ELE 546 Digital and Modern Control Engineering**  

**ELE 551 Satellite Communications**  
Satellite Communication: Types (LEO, GEO, etc.), orbits, frequency bands, applications, and services. Antennas: types, gain, pointing loss, G/T, EIRP; high power amplifiers; low noise amplifiers. BUC/LNB: conversion process, polarization hopping,
redundancy configurations; earth station monitoring and control. Basic link analysis, attenuation, sources of interference, carrier to

**ELE 556 Broadcasting and Internet Technology**  
2 credits

**ELE 557 Mobile and Personal Communication Systems**  
2 Credits

**ELE 560 Digital Signal Processing**  
2 Credits
implementation of DSP algorithms. DSP microprocessors: architecture, fixed point and floating point DSP; signal segmentation effect, DSP chips. Practical application of DSP in audio and video.

30h (T); C

ELE 562 Use of Engineering Software Packages 2 Credits
Introduction to MATLAB and their engineering applications. Introduction to AUTOCAD and their engineering applications. Introduction to simulation packages.
30h (T); C, PR: ELE 447

ELE 574 Electrical Energy Conversion and Storage 2 Credits
Electromechanical energy conversion, sources of motive power. Waste heat recovery. Solar energy nuclear power other sources of energy. Wind, geothermal, primary and secondary cells, cars and heavy vehicle batteries, testing, fault diagnosis, repairs effect of environmental factors on battery life, small-scale power sources.
30h (T); C, PR: ELE 471

ELE 575 Power Systems Communication and Control 2 Credits
Review of transmission line theory, high frequency communication on power lines. Carrier systems and power line carrier applications. Multiplexing. Telemetering, signal processing and data transmission. Control of power generation. Voltage control, system stability, automatic voltage regulators, regulating transformers.
30(T); C, PR: ELE 431, ELE 451

ELE 577 Electrical Power System Engineering 2 Credits
30 (T); C, PR: ELE 471

ELE 582 Computer Application in Power Systems 2 Credits
30h (T); C

ELE 593 Electrical Engineering Project I 4 Credits
Original individual student project related to a prescribed electrical engineering problem involving literature review, identification, definition and formulation of the problem, theoretical investigations, modelling simulation, analysis and design.
ELE 594  Electrical Engineering Project II  4 Credits
Second phase of investigations involving the implementation of the designed model. Debugging, calibration, testing, data
collection, analysis and presentation of a comprehensive written report of the investigations.
135h (P); C
SUMMARY

100 LEVEL

Required Courses: GNS 111 (2), GNS 112 (2) = 4 Credits

Elective Courses: STA 131 (2), STA 124 (2) = 4 Credits

At least 9 credits must be passed out of the following:

MAT 111(3), 113 (3), 112 (3), 114

At least 9 credits must be passed out of the following:

PHY 115 (2), 125 (3), 142 (2), 152 (3), 191 (1), 192 (1) = 9 Credits

At least 6 credits must be passed out of the following:

CHM 101 (3), 112 (2), 115 (2), 116 (1), 132 (2) = 6 Credits

Total = 4 Credits

200 LEVEL

Compulsory Courses: ELE 201 (3), 202 (3), 275 (1), 276 (2), 283 (2), 284 (2), 222 (6) = 19 Credits

Required Courses: ABE 206 (2), 263 (3), CHE 241 (3), 242 (3), 264 (3), CVE 253 (3),
MEE 217 (2), 218 (2), 235 (2), 272 (2), GNS 211 (2), 212 (2) = 32 Credits

Total = 51 Credits

Direct Entry Students: GNS 111 (2), 112 (2) = 4 Credits

300 LEVEL

Compulsory Courses: ELE 311 (3), 312 (2), 316 (3), 321 (3), 324 (3), 331 (3), 342 (2), 361 (3),
(1), 382 (2), 392 (6) = 33 Credits

Required Courses: ABE 306 (2), 376 (1), GNS 311 (2), GSE 301 (3), MEE 361 (3), 362 (3) = 14 Credits

Total = 47 Credits
Direct Entry Students: GNS 111 (2), 112 (2), 211 (2) and 212 (2) = 8 Credits

400 LEVEL
Compulsory Courses: ELE 425 (2), 431 (3), 443 (3), 447 (2), 451 (3), 453 (2), 471 (3), 481 (2), = 32 Credits

Required Course: ABE 463 (2) = 2 Credits

Total = 34 Credits
500 LEVEL

Compulsory Courses: ELE505 (3), 506 (3), 523 (2), 562 (2), 593 (4), 594 (4) = 18 Credits

Required Courses: ABE 501 (3), 573 (1), BUL 506 (3), = 7 Credits

Elective Courses: At least 2 credits must be passed out of the following:
(2), MEE 543 (3) = 2 Credits

COMPUTER AND CONTROL COURSES
ELE 541 (2), 542 (2), 545 (2), 546 (2) = 8 Credits
Total = 35 Credits

COMMUNICATION ENGINEERING COURSES
ELE 551 (2), 556 (2), 557 (2), 560 (2) = 8 Credits
Total = 35 Credits

POWER SYSTEM AND MACHINE COURSES
At least 12 credits must be passed out of the following
ELE 574 (2), 575 (2), 577 (2), 582 (2) = 8 Credits
Total = 35 Credits

GRADUATION REQUIREMENTS
1. Major Engineering Courses (ABE, CHE, CVE, ELE, MEE, MME) 122 Credits
2. General studies courses (GNS 111, 112, 211, 212, 311) 10 Credits
3. Student’s Industrial Work Experience Scheme (SIWES) 18 Credits
4. Student’s Work Experience Programme (SWEP) 6 Credits
5. Minimum Electives 10 Credits
6. Law and Entrepreneurial Skill 6 Credits
Total = 172 Credits

COMPUTATION OF GRADE POINT FOR GRADUATION
1. 100 level courses are not used for computation of CGPA except GNS 111 (2), GNS 112 (2).
2. The 12 credits of SIWES must be passed but are not used for computation of CGPA.
3. The minimum credits that will be used to compute the CGPA for all options are as follows for all UTME/DE at 200 and 300 Levels.
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</tr>
<tr>
<td>K. Oje</td>
<td>B.Sc. (Ibadan); M.Sc., Ph.D. (Iowa State), MNSE, MNIAE, MASABE, R.Eng (Nigeria)</td>
<td>Professor</td>
<td></td>
</tr>
<tr>
<td>J. K. Joseph</td>
<td>Professor / Associate Lecturer</td>
<td>Food Science</td>
<td></td>
</tr>
<tr>
<td>Adenike T. Oladiji</td>
<td>B.Sc. (Ilorin) M.Sc., Ph.D. (Ibadan)</td>
<td>Agricultural Biochemistry</td>
<td></td>
</tr>
<tr>
<td>Olayinka R. Karim</td>
<td>B.Sc. (FUNAB), M.Sc. (Ibadan), Ph.D. (FUNAB)</td>
<td>Food Additive, Toxicology and Packaging</td>
<td></td>
</tr>
<tr>
<td>Patricia F. Omojasola</td>
<td>Senior Lecturer / Associate Lecturer</td>
<td>Food Microbiology</td>
<td></td>
</tr>
<tr>
<td>Omolara O. Oluwaniyi</td>
<td>Senior Lecturer / Associate Lecturer</td>
<td>Food Chemistry</td>
<td></td>
</tr>
<tr>
<td>M. O. Sunmonu</td>
<td>Lecturer I</td>
<td>Food Storage and Packaging; Food Preservation.</td>
<td></td>
</tr>
<tr>
<td>T. A. Ishola</td>
<td>Lecturer I / Associate Lecturer</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>B. Eng., M. Eng., (Ilorin), Ph. D. (UPM), MNIA, R.Engr (Nigeria)</td>
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<tr>
<td>M. M. Odewole</td>
<td>Lecturer II</td>
<td>B.Eng., M.Eng., (Ilorin), MNIAE, R.Engr (Nigeria)</td>
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<tr>
<td>R. O. A. Sanni</td>
<td>Technologist I</td>
<td>B. Sc. (Maiduguri)</td>
<td></td>
</tr>
<tr>
<td>I. Duniya</td>
<td>Technologist II</td>
<td>B. Sc. (Ibadan)</td>
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</table>

Food Processing; Machine Design

Food Engineering

Technologist I

Technologist II
B. Eng. Food and Bioprocess Engineering

**FBE 206 Introduction to Engineering Disciplines**  
2 Credits

Introduction to engineering disciplines: Definition of agricultural, biomedical, chemical, computer, civil, electrical, food and bioprocess, mechanical, material, metallurgical engineering and water resources and environmental engineering: Specialization/Options in various departments in engineering: Use of various implements and equipment in engineering for various operations/processes: Prospects and job opportunities in various disciplines in engineering: Relevant regulatory bodies in engineering: The role of engineers in advancement of humanity.

15h (T), 45h (P); C

**FBE 222 Students Work Experience Programme (SWEP)**  
6 Credits

Introduction to practices and skills in general engineering through instruction in operation of hand and powered tools for wood and metal cutting and fabrication. Supervised hands-on experience in safe usage of tools and machines for selected tasks.

270h (P); C

**FBE 263 Engineering Mathematics I**  
3 Credits

Limits, Continuity, Differentiation, Introduction to linear first order differential equations, partial and total derivatives composite functions, matrices and determinants, Vector algebra, Vector calculus, Directional Derivatives.

45h (T); C

**FBE 283 General Engineering Laboratory Course I**  
2 Credits

Laboratory investigation and report submission for selected experiments and projects in Applied Mechanics and Applied Electricity I and Fundamental’s of Fluid Mechanics.
FBE 284  General Engineering Lab Course II  2 Credits
Laboratory investigations and report submission for selected experiments and projects in fundamentals of Thermodynamics. Engineering materials, Applied Mechanics II and Applied Electricity III

FBE 301  Food Manufacturing Techniques I  2 Credits
Preliminary and preparative operations including: Cleaning, Sorting, washing, peeling, deskinning, cutting, blanching etc. Ancillary Operations including: Size reduction, sieving and sifting, centrifugation, Floatation, Filtration, mixing, emulsification. Water and waste water treatment, solid waste disposal. Materials handling systems in food processing.

FBE 302  Food Manufacturing Techniques II  2 Credits
Selected food manufacturing procedures such as blanching, pasteurization heat sterilization, evaporation, distillation, extrusion, dehydration, baking, roasting, frying, freezing and packaging at pilot scales – lectures is to be supplemented by visits to food factories.

FBE 303  Food Engineering I  2 Credits

FBE 304  Food Engineering II  2 Credits
Engineering properties of Food and biological materials. Study of various physical, mechanical, thermal and other properties of food & biological materials. Importance of such property values on the design & operation of various food and bioprocess

30h (T); C

FBE 305 Heat and Mass transfer 2 Credits

General principles and mode of heat transfer: conduction, convection and radiation as applied to food processing and engineering. Types of heat exchangers. Steady state and Unsteady state heat transfer; Microwave Heating. Introduction to mass transfer; The diffusion process; Membrane Separation Systems; Mass Transfer in Packaging Materials and Permeability Material to Fixed Gases.

FBE 308 Biorefining Engineering 2 Credits

Energy and products for renewable resources; Concepts, processes, status and future direction of Bioresources Engineering (Fuels, Chemicals and materials for biomass) with emphasis on chemical, biological and Engineering aspect of biorefinery

30h (T), 45h (P); C

FBE 311 Food Chemistry 2 Credits

Naturally occurring constituents of foods. Their structure, chemical and physical properties and significance. Food additives Rancidity of fats and oils. Food pigments. Enzymatic and non enzymatic browning. Chemical, physical and biochemical changes that occur in food during handling, processing and storage. Toxic constituents of foods and their mode of degradation in the body. The use of enzymes in food industry.

30h (T), 45h (P); C

FBE 312 Food Microbiology 3 Credits
Food Microbiology: Microbiology of foods and their raw materials, fermented foods, food sanitation; sanitary aspects of food-borne diseases, water microbiology. Control of pathogens in foods. Insects and rodents in food and their control. Water disinfection and requirements for water in the food industry. Most Portable Number (MPN) and its use in microbial analysis. Microbial toxin: Malting and brewing of alcoholic beverages.

30h (T), 45h (P); C

FBE 313 General Microbiology 2 Credits


30 h (T); C

FBE 314 Human Nutrition 3 Credits

Situation of nutrition in Nigeria. Protein-calorie malnutrition, Biochemistry of human nutrition in context of physiological systems. Metabolism of carbohydrates, proteins, lipids, metabolism. Important mineral and vitamin deficiencies, their etiology and control. Antinutritional factors in food. Food balance sheets, food composition tables and recommended dietary allowance. Food and nutrition problems. Policy and programme on food as they relate to developing countries.

30h (T), 45h(P); C

FBE 383 Food and Bioprocess Engineering Laboratory Course I 1 Credit
Laboratory investigations and reports for selected experiments and projects in strength of materials, thermodynamics and heat transfer.

45h (P); C

FBE 384 Food and Bioprocess Engineering Laboratory II 1 Credit

Laboratory investigations and reports for selected experiments and projects in food microbiology, food processing techniques and manufacturing, food preservation, food chemistry, mechanics of machines, metallurgy, handling process and storage.

45h (P); C

FBE 392 Students’ Industrial Work Experience Scheme I (SIWES) I 6 Credits

On the job experience in industry chosen for its relevant in the Student’s major. (3 months during the long vacation following 300 level).

270h (P); C

FBE 405 Food Biotechnology 3 Credits


15h (T), 90h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FBE 407</td>
<td>Principles of Food Analysis I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15h (T), 90h (P); C</td>
<td></td>
</tr>
<tr>
<td>FBE 409</td>
<td>Cereals and Tubers Technology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Types of cereals and tubers – botanical characteristics, composition, and properties, flour milling from maize, sorghum, millet, cassava, yams, cocoyams, etc. Chemical, physical and physiological changes in cereals and tubers during storage and handling. Methods of preservation. Technology of composite flours and flour confectionery products (e.g. macaroni, spaghetti, etc). Processing technology for cereals (maize, rice, sorghum, wheat) and tubers (cassava, yams and cocoyams). Cereals and tuber enrichment technologies.</td>
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<td></td>
<td>15h(T), 45h(P); C</td>
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<tr>
<td>FBE 411</td>
<td>Fermentation Technology</td>
<td>3</td>
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<td>15h(T), 45h(P); C</td>
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<tr>
<td>FBE 413</td>
<td>Design of Food Machinery</td>
<td>3</td>
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<tr>
<td></td>
<td>Design of various components of food machines. Design features and functions of equipment used in food industry e.g equipment for cleaning, sorting, grading, size reduction, mixing, homogenization, filtration, distillation, centrifugation etc. electric motors.</td>
<td></td>
</tr>
</tbody>
</table>
FBE 481  Food and Bioprocess Engineering Laboratory III  2 Credits

Laboratory investigations and reports for selected experiments and projects in food engineering, design of food machinery, agricultural structures and environmental control, and in the approved elective course.

90h (P); C

FBE 492  Students’ Industrial Work Experience Scheme (SIWES) II  12 Credits

On the job experience in industry at a higher level of responsibility than FBE 392. (During the Second Semester of 400 Level).

540h (P); C

FBE 501  Food Standards and Quality Control  3 Credits


30h (T), 45h (P); C

FBE 502  Food Process Design  3 Credits

15h (T), 45h (P); C

FBE 503 Food Process Plant Design and Economics 2 Credits

Plant layout in the food industry. Economics of process design. Feasibility Analysis and optimization techniques. Optimum design of food processing plant to include well defined spaces for the following: raw materials storage, spaces for processing equipment, semi and finished products, source of water supply, by-products and waste water disposal, sanitation consideration of the plant, parking spaces for vehicles, etc. Industrial visitation to food industries to help draw attention to certain aspects of food plant location, layout design and sanitation. A group plant design project will be given to students.

15h (T), 45h (P); C

FBE 505 Milk and Dairy Technology 3 Credits


30h (T), 45h (P); C

FBE 506 Meat and Meat Products Technology 3 Credits


30h(T), 45h(P); C
FBE 511 Biochemical Engineering II 3 Credits
30h(T), 45h(P); C

FBE 513 Principles of Food Analysis II 3 Credits
Advanced aspects of the analysis of lipids, proteins, polysaccharides and toxicants. Consideration of special techniques in food analysis with specific examples from literature. Gas liquid chromatography, including gel permeation and ion exchange chromatography, electrophoresis, ultracentrifugation, polarography, refractometry, spectrophotometry (visible, ultraviolet, infrared) fluorimetry, radioisotope tracer techniques.
15h (T), 90h (P); C

FBE 521 Process Optimization 3 Credits
30h(T), 45h(P); C

FBE 523 Process Control and Automation 3 Credits
Introduction to process control and instrumentation – measuring instruments including oscilloscopes, graphics, thermocouples, sensors, accelerometers, AC and DC motors. Process requirements in the food industry. Methods of control – block diagrams, open and feedback systems, stability problems; Laplace transform, transfer function and application. Types of controllers and control actions; frequency – response analysis of elements; transient and steady state solutions; prediction of transient response, optimum control setting methods, control of processes with time delay; electrical devices and applications in food processing. Forms of
signals; damping factor and critical conditions, control values and transmission lines; process dynamics e.g. control of heat
exchanger, error detector and transducers, electric alarms, heat detection alarm, time relay, temperature relay, remote control, etc –
applications of these control devices in food processing operations.

45h (T); C

FBE 522  Engineering Measurement Systems  
3 Credits

Principles of instrumentation systems, including sensing, signal conditioning, computerized data acquisition, test design, data
analysis and synthesis. Includes laboratory.

45 h (T); C

FBE 524  Process of Miscellaneous Food Commodities  
3 Credits

Botanical characteristics, composition, properties and processing of non-alcoholic beverages from cocoa, tea, coffee, kola, herbs
and spices, sugar confectionery and soft drinks. Selected legumes and their products. Recent advances in the manufacture of non-
alcoholic beverages in Nigeria. Nutritional value of non-alcoholic beverages. Classification of Nigeria’s food and agro-industrial
raw materials. Constraints to local raw material utilization. Local sourcing of raw materials; problems and prospects, processing
characteristics and requirements; quality evaluation and specifications for household/industry use. Methods of processing on
chemical composition and storage stability; nutritive value of Nigeria’s food raw materials. Entrepreneurship in the raw material
development area; resource utilization; upgrading of traditional harvesting and processing methods; conservation practices;
conventional and unconventional raw materials. Role of government in promoting local raw materials.

30h (T), 45h(P); C

FBE 531  Food Process Engineering  
3 Credits

30h(T), 45h (P); C

FBE 532 Fruits and Vegetable Processing 3 Credits
Preservation of fruits and vegetables. Harvesting and pre-processing operations. Use of chemicals to control enzymatic and non enzymatic changes in processed fruits.

30h (T), 45h(P); C

FBE 533 Technology of Household Chemical Products 3 Credits
The chemical compositions, equipment selection and design of some household products: paints, adhesives, cosmetics, food and beverages, disinfectant, polish, soap and detergents.

30h (T), 45h(P); C

FBE 538 Sugar Technology 3 Credits
Description of the equipment and the consideration of the processes involved in the manufacture of the retained sugar from cane. Utilization of the by-products of the refining operation. Safety, economics and environmental consideration. Energy recovery.

30h (T), 45h(P); C

FBE 564 Fundamentals of Food Processing 3 Credits
A detailed study of food processing with emphasis on line and staff operation, including physical facilities, pre and post processing operations; processing line development and sanitation. A study of the basic methods of food preservation (pasteurization, sterilization, dehydration) chilling, freezing, concentration, fermentation and irradiation.

30h (T), 45h (P); C

FBE 541 Food Packaging Engineering 3 Credits

Cross-disciplinary study of the materials, machinery, research, design, techniques, environmental considerations, ethics and economics used in the global packaging industry with emphasis on the implementation of improved technologies for the problems unique to food packaging. An emphasis on the broad, systems-based nature of packaging will be maintained throughout the course.

45 h (T); C

FBE 542 Food and Pharmaceutical Separations 3 Credits

Basic principles of production-scale separation processes in the food and pharmaceutical industries including gravity sedimentation and centrifugation, extraction adsorption, chromatography, precipitation, conventional and membrane filtration, crystallization and drying.

30h (T), 45h (P); C

FBE 543 Bioproducts Processing and Packaging Techniques 3 Credits

Introduction to bioproducts-Definition, benefits and categories of bioproducts (bioenergy, biomaterials and biochemicals); Development of bioreactor for biofuel processing, microalgea production (photobioreactor) and biochemical products. Types of foam stabilising agents and foam break-up methods in controllable foam formation. Basic knowledge on modern packaging techniques for processed bioproducts; New development of modified atmosphere packaging (MAP). MAP technology applied to processed bioproducts; Different characterization methods used for packaging materials for processed bioproducts; packaging materials and machineries for different processed bioproducts., Current use of novel packaging techniques; Antimicrobial bioproduct
packaging: Constructing an antimicrobial packaging system; Factors affecting the effectiveness of antimicrobial packaging; Principles of flexible and rigid packaging of processed bioproducts.

30h (T), 45h (P); C

FBE 552  Fats and Oils Technology  3 Credits
Status of the oils and fats industry in Nigeria; oil seeds of Nigeria – characteristics, composition and uses. Raw materials for the vegetable oil industries – palm, coconut, groundnut, soybeans, cottonseed, sunflower seed; effect of climatic conditions, harvesting and storage on quality of glycerides. Processing equipment and machineries of oil production. Refining of oil and storage quality indices.

30 h (T); 45h (P), E

FBE 553  Special Problems in Food and Bioprocess Engineering  3 Credits
Independent study within the context of the students’ chosen option bordering on the application of appropriate technology for solving specific agricultural and biosystems engineering problems.

45h (T); E

FBE 555  Biological Nano-engineering  3 Credits
Nano-device design through organization of functional biological components; bio-molecular function and bio-conjugation techniques in nanotechnology; modulation of biological systems using nanotechnology; issues related to applying biological nanotechnology in food energy, health, and the environment.

30 h (T); 45h (P), E

FBE 557  Food Engineering III  3 Credits
Novel technologies involving advances in food processing. Use of cryogenic freezing systems. Application of irradiation and safety issues. Use of online moisture meters. Boiling characteristics of organic liquids and applications involving boilers, cookers and

30 h (T); 45h (P), E

FBE 581 Food and Bioprocess Engineering Laboratory Course IV 2 Credits
Laboratory investigations and reports for selected experiments and projects in Electrification, Agricultural Mechanization and in three courses in the student’s option.

90h (P); C

FBE 582 Food and Bioprocess Engineering Laboratory Course V 2 Credits
Laboratory investigations and reports for selected experiments and projects in soil and water conservation. Agricultural Land Clearing and Development, and in three courses in the student’s option.

90h (P); C

FBE 593 Food and Bioprocess Engineering Research project I 4 Credits
Original individual student project related to a prescribed food or agricultural engineering problem involving literature review, identification, definition and formulation of the problem, theoretical investigations, modeling, simulation, analysis and design.

15h (T), 135h (P); C

FBE 594 Food and Bioprocess Engineering Research project II 4 Credits
Second phase of project investigations involving the fabrication of the designed model, debugging, calibration, testing data collection and analysis and presentation of a comprehensive written report of the investigation.

15h (T), 135h (P); C

Note: Details of other courses in the Department of Food and Biopeocess Engineering are available in relevant Departments as follows:
ABE courses in Agricultural and Biosystems Engineering;
GNS courses in General Studies Division;
GSE from Technical Entrepreneurship Centre;
CHE courses in Chemical Engineering Department;
CVE courses in Civil Engineering Department;
ELE courses in Electrical and Electronics Engineering Department;
MEE courses in Mechanical Engineering Department;
MME courses in Material and Metallurgical Engineering Department;
AGY and ANP courses in Faculty of Agriculture, and
BUL in Faculty of Law.

SUMMARY

100 LEVEL

COMPULSORY COURSES: NIL

Required Courses

GNS 111 (2), GNS 112 (2) = 4 Credits

Elective Courses:

STA 131 (2), STA 124 (2) = 4 Credits

At least 9 credits must be passed out of the following:

MAT 111(3), MAT 113 (3), MAT 112 (3), MAT 114 (3) = 9 Credits
At least 9 credits must be passed out of the following:

PHY 115 (2), PHY 125 (3), PHY 142 (2), PHY 152 (3), PHY 191 (1), PHY 192 (1) = 9 Credits

At least 6 credits must be passed out of the following:

CHM 101 (3), CHM 112 (2), CHM 115 (2), CHM 116 (1), CHM 132 (2) = 6 Credits

Total = 4 Credits

200 LEVEL

**Compulsory Courses:**

FBE 283 (2), FBE 284 (2), FBE 222 (6) = 10 Credits

**Required Courses:**


Total = 54 Credits

DE: GNS 111 (2), GNS 112 (2) = 4 Credits

300 LEVEL

**Compulsory Courses:**
FBE 301 (2), FBE 303 (2), FBE 305 (3), FBE 311 (3), FBE 313 (2), FBE 383 (1), FBE 302 (2), FBE 304 (2), FBE 308 (2), FBE 312 (3), FBE 314 (2), FBE 384 (1), FBE 392 (6)  

= 25 Credits

**Required Courses:**

GNS 311 (2), AGY 301 (2), ANP 307 (2), MEE 361 (3), MEE 362 (3), ABE 306 (3), ABE 376 (1), GSE 301 (3)  

= 19 Credits

Total = 44 Credits

**DE:** GNS 111 (2), GNS 112 (2), GNS 211 (2), 212 (2) GSE 202 (3)  

= 11 Credits

**400 LEVEL**

**Compulsory Courses:**

FBE 405 (3), FBE 407 (3), FBE 409 (2) FBE 413 (3), FBE 407 (3), FBE 481 (2), FBE 492 (12)  

= 28 Credits

**Required Courses:**

ABE 463(2)  

= 2 Credits

**Elective Courses:**

At least 3 credits must be passed out of the following:

MEE 421 (3), ABE 538 (3), ABE 5376(3)  

= 3 Credits

Total = 33 Credits
500 LEVEL

Common Courses

Compulsory Courses:
FBE 501 (3), FBE 502 (3), FBE 503 (2), FBE 505 (3), FBE 506 (3), FBE 581 (1), FBE 582 (1), FBE 593 (4), FBE 594 (4) = 24 Credits

Required Courses:
BUL 506 (3), ABE 501 (3), ABE 573 (1) = 7 Credits

Elective Courses:
At least 3 credits must be passed out of the following:
FBE 553 (3), FBE 555 (3), FBE 511 (3), FBE 521 (3), FBE 533 (3)
FBE 552 (3), FBE 538 (3), FBE 546 (3), ABE 534 (3) = 3 Credits

Food Machine Design Optional Courses:
FBE 513 (3), FBE 523 (3), FBE 522 (3), FBE 524 (3) = 12 Credits
Total = 42 Credits

Food Process Design Optional Courses:
FBE 523 (3), FBE 531 (3), FBE 522 (3), FBE 532 (3) = 12 Credits
Graduation Requirements for all Options

1. Major Engineering Courses (ABE, CHE, CVE, ELE, FBE, MEE) = 128 Credits
2. Students’ Industrial Works Experience Scheme (SIWES I and II) = 18 Credits
3. Students Work Experience Programme (SWEP) = 6 Credits
4. General Studies Courses: (GNS 111, 112, 211, 212, 311) = 10 Credits
5. Minimum Electives = 6 Credits
6. Management, Law, Economics and Entrepreneurial Skill courses (GSE 202 (3) GSE 301 (3), BUL 506 (3)) = 9 Credits
7. Agricultural Science, Food Science and Life Science Courses (AGY 301 (2), ANP 307 (2)) = 4 Credits

Total = 181 Credits

UTME: 181 Credits

DE (200L): 181 Credits

DE (300L): 134 Credits

Graduation Requirements (Option 2)

Computation of Grade Point

1. 100 level courses are not used for computation of CGPA except GNS 111 (2), GNS 111 (2)
2. The 18 credits of SIWES must be passed but they are not used for computation of CGPA
3. The minimum Credits that will be used to compute the CGPA for all options are as follows:
For UTME, DE at 200 and 300 levels

<table>
<thead>
<tr>
<th>Level</th>
<th>UTME</th>
<th>DE (200L)</th>
<th>DE (300L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Level</td>
<td>4</td>
<td>-</td>
<td>-</td>
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<tr>
<td>200 Level</td>
<td>54</td>
<td>58</td>
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<tr>
<td>300 Level</td>
<td>38</td>
<td>38</td>
<td>49</td>
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<tr>
<td>400 Level</td>
<td>21</td>
<td>21</td>
<td>21</td>
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<tr>
<td>500 Level</td>
<td>42</td>
<td>42</td>
<td>42</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>159 Credits</strong></td>
<td><strong>159 Credits</strong></td>
<td><strong>112 Credits</strong></td>
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</table>
DEPARTMENT OF MATERIALS AND METALLURGICAL ENGINEERING

Course Description

B.Eng. Materials and Metallurgical Engineering

MME 222 Students Work Experience Program (SWEP)  6 Credits
Introduction to practices and skills in general engineering through instruction in operation of hand and powered tools for wood, metal cutting and fabrication; Supervised hands-on experience in safe usage of tools and machines for selected tasks; General practices on automobile repairs, survey, civil and electrical engineering works; Micro-structural examination of materials.
270 h (P); C

MME 272 Engineering Materials  2 Credits
Introduction to electronic configuration, atomic structures, inter-atomic bonding mechanisms, crystal and microstructure; Relationship between structure and properties of metals, alloys, ceramics and plastics; Principles of the behaviour of materials in common environments; Fabrication processes and applications.
30h (T); C

MME 311 Materials Deformation  2 Credits
One, two and three dimensional stress and strain; Application of Mohr’s Circle for analysis of stress and strain; Tensor analysis of stresses and strain; Elastic Deformation: Young Modulus, Poisson’s ratio, Stress-strain relation, stiffness/compliance Matrix; Dislocations: Edge/screw/mixed dislocation; Burgers vectors, twining, stress field of dislocation, dislocation interaction; Plastic deformation of single and polycrystalline materials ,Schimd’s law, plastic flow; Inelastic deformation: Viscosity, deformation of inorganic glasses, deformation of non crystalline and crystalline polymers; Testing methods: compression, impact, bending, torsion, hardness, fatigue, creep, Visco-elasticity and non-destructive evaluation.
MME 331  Heat and Mass Transfer  
Basic heat transfer equation and mechanisms; Steady and unsteady state heat transfer; Application of dimensional Analysis to heat flow; Basic equation of mass Transfer; Mass transfer coefficient and Models; Mass transfer between multiple phases; Application of heat and flow analysis in process of metallurgy e.g. continuous casting, casting in general, and reheating of slabs and ingots, etc; Use of finite element method of estimating heat distribution in a slab.

30h (T), 45h (P); C, PR: CHE 241, CHE 242

MME 332  Principles of Extractive Metallurgy  
Important processes in extractive metallurgy of primary and secondary metals; Sources of metals; Ore dressing; Smelting and refining by pyro-metallurgical, hydrometallurgical and electrometallurgical methods; Fuels and Refractories; By-products of extractive metallurgy.

30h (T); C, PR: CHE 241, MME 272, CHE 242

MME 341  Energetics I  
Thermodynamic laws and relationship, concept of entropy and its relationship to heat, strategy for deriving thermodynamic relationships, general criterion for equilibrium, physical and chemical equilibria; Statistical thermodynamics: micro-states, partition function.

30h (T); C, PR: CHE 242

MME 342  Energetics II  
Phase equilibria in one-component systems, reactions involving pure condensed phase and gaseous phase; behaviour of solutions; fugacity, activity and equilibrium constant; Raoult’s and Henry’s Laws, Free energies of mixing, Gibbs-Duhem equation; Sievert’s Law; Free energy/composition and phase diagrams of binary systems; reaction equilibrium in systems containing components in condensed solutions. Gibbs phase rule, chemical kinetics, elementary mechanisms; reaction rate constant, atomistic activation energy; diffusion in liquids and solids.

30h (T); C, PR: CHE 242

MME 351  Physical Metallurgy I  
Wave theory of the atom; Schrodinger wave equation and simple applications; Wave-particle duality; Uncertainty principle; Electron diffraction; Nucleation of phase changes; homogeneous and heterogeneous nucleation; Diffusion in solids; Grain growth; Solid solution hardening; Precipitation and dispersion hardening; Fibre reinforcement; Martensitic strengthening; Grain size strengthening; Thermal treatments; Thermo-mechanical treatments; Diffusion coating or metallic cementation; Radiation strengthening; Ion implantation.

30h (T); C, PR: MME 272, CHE 242
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MME 352</td>
<td>Physical Metallurgy II</td>
<td>2</td>
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<tr>
<td></td>
<td>Theory of alloying; Liquid-Solid Transformations;</td>
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<td>Solid-Solid Transformations; Metal ingot structure;</td>
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<td>Strengthening mechanism and processes; Mechanical</td>
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<td></td>
<td>treatments; Crystal imperfection; Theoretical</td>
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<td></td>
<td>strength of crystals; actual strength of crystals;</td>
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<td>Point defects; effect of point defects on</td>
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<td>mechanical properties; observation of point</td>
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<td>defects; Lines defects, dislocation theory;</td>
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<td></td>
<td>observation of dislocation; behaviour of stress</td>
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<td>field around dislocation; energy of curved</td>
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<td></td>
<td>dislocation; forces acting on dislocation;</td>
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<td></td>
<td>dislocation forces. Slip phenomena; Planar</td>
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<td></td>
<td>defects; grain boundaries, domain boundaries,</td>
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<td></td>
<td>stacking faults, twin and twin boundaries.</td>
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<td>30h (T); C, PR: MME 272, CHE 242</td>
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<tr>
<td>MME 354</td>
<td>Fracture Mechanics</td>
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<td></td>
<td>Structure of solids, strength of solids, shear,</td>
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<td></td>
<td>cleavage, defects in solids, concept of elastic</td>
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<td></td>
<td>cracks and theory of elasticity; Crack initiation</td>
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<td>and propagation, stress intensity factor, fracture</td>
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<td></td>
<td>of solids; Griffith-Orowan’s and Irwin’s theories;</td>
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<td>Elastic and plastic fracture, stress concentration</td>
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<td>and design consideration; Fracture mechanics</td>
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<td>for ductile materials; plastic zone correction;</td>
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<td>crack-opening displacement; J-contour integral;</td>
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<td></td>
<td>R-curve; Fatigue crack growth; Probabilistic aspect</td>
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<td></td>
<td>of fracture mechanics.</td>
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<td>45h (T); C</td>
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<tr>
<td>MME 372</td>
<td>Mineral Processing</td>
<td>2</td>
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<tr>
<td></td>
<td>Occurrence and nature of major metalli-ferrous</td>
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<td>ores; Communition theory; criteria for selection</td>
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<td>of crushing, grinding and screening equipments;</td>
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<td>metallurgical accounting; Laboratory sieve</td>
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<td>analysis; Classification; Mineral concentration</td>
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<td>techniques; Gravity concentration, Heavy medium</td>
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<td>separation, Froth floatation, Magnetic and</td>
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<td>electrostatic separation; Selection of mineral</td>
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<td>concentration equipments; De-watering and</td>
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<td>tailings disposal; Design, testing and evaluation</td>
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<td>of mineral beneficiation flow sheets.</td>
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<td>30h (T); C, PR: MME 272</td>
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<tr>
<td>MME 381</td>
<td>Material Laboratory I</td>
<td>2</td>
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<tr>
<td></td>
<td>Principle and technique of optical metallography;</td>
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<td>specimen preparation, etching; Qualitative and</td>
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<td></td>
<td>quantitative microscopy; introduction to</td>
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<td></td>
<td>photography and photomicrography; and other</td>
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<td>specialized techniques. Mechanical testing:</td>
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<td>tensile, compression, torsion, Hardness and</td>
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<td>creep.</td>
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<td>90h (P); C, PR: MME 272</td>
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<tr>
<td>MME 382</td>
<td>Material laboratory II</td>
<td>2</td>
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<tr>
<td></td>
<td>Experiments in mineral identification (chemical/</td>
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<td>physical), sieve analysis and beneficiation;</td>
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<td>Simple experiments on extraction processes;</td>
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<td>Experiments on mechanical behaviour of different</td>
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<td>engineering materials; Experiments on refractories.</td>
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<td>Gas chromatography, mass spectrometry and</td>
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<td></td>
<td>sampling.</td>
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<td>90h (P); C, PR: MME 281, MME 282</td>
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<td>Course Code</td>
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<tr>
<td>MME 392</td>
<td>Student Industrial Work Experience Scheme (SIWES) I</td>
<td>6</td>
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<td></td>
<td>On the job experience in the industry chosen for its relevance to student’s major. (12 weeks) during long vacation following 300 levels</td>
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<td>270h (P); C</td>
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<tr>
<td>MME 431</td>
<td>Foundry Technology I</td>
<td>3</td>
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<td>45h (T); C, PR: MME 311/MEE 311, MME 351/352</td>
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<tr>
<td>MME 441</td>
<td>Phase Diagrams in Metallic Systems</td>
<td>2</td>
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<td>Introduces nature and importance of phase diagrams; reviews unary systems; binary or two-component systems; isomorphous systems, the order-disorder transformation, the eutectic and eutectic-like systems, the peritectic and peritectic-like; monotectics and syntectic systems; and elements of ternary phase diagrams and complex systems. Methods for determination of phase diagrams.</td>
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<td>30h (T); C, PR: MME 341, MME 342</td>
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<tr>
<td>MME 451</td>
<td>Heat-Treatment of Metals</td>
<td>2</td>
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<td>30h (T); C, PR: MME 351/352</td>
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<tr>
<td>MME 461</td>
<td>Fundamentals of Corrosion</td>
<td>2</td>
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<td></td>
<td>Qualitative application of electrochemical principles to corrosion reactions. Effect of metallurgical factors, atmospheric, soil or aqueous environments. Oxidation and tarnish. Stray current, cathodic anodic protection, metallic, inorganic coatings, inhibitors. Selection of materials.</td>
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<td>30h (T); C, PR: CHE 242, MME 272</td>
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<tr>
<td>MME 471</td>
<td>Manufacturing Processes</td>
<td>3</td>
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<td></td>
<td>Review of basic manufacturing processes of casting, welding, rolling, drawing, forging, extrusion, and machining. Fabrication characteristics of materials - the relationships among materials properties, manufacturing processes and product properties.</td>
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</tbody>
</table>

**MME 473**

**Fuels, Furnaces and Refractories**
2 Credits


30h (T); C, PR: MME 311

**MME 481**

**Materials Laboratory III**
2 Credits


90h (P); C, PR: MME 381, MME 382

**MME 483**

**Experimental Techniques**
3 Credits

Principles and techniques of optical microscopy, electron microscopy, and scanning-probe microscopy. X-ray diffraction and neutron diffraction. Production and choice of X-rays and electrons with matter; Bragg’s Law; reciprocal lattice; diffraction methods, including powder, Laue and rotating crystal techniques; Fluorescent analysis; applications of diffraction methods in metallurgy and materials. Production and choice of X-rays and electrons with matter; Bragg’s Law; reciprocal lattice; diffraction methods, including powder, Laue and rotating crystal techniques; Fluorescent analysis; applications of diffraction methods in metallurgy and materials. Materials Analytical Instruments: Principles and applications of X-ray spectrometry; Atomic absorption spectroscopy; Pyrometry; Dilatometry; Thermogravimetry (TG); Differential thermal analysis (DTA); and Thermomechanical analysis (TMA) in material engineering. Technique of surface examination [touch, microscopy (optical and electron), surface profilometry (contact and optical)]. Experimental Stress Analysis, statistical design of experiments and interpretations of results.

45h (T); C

**MME 492**

**Student Industrial Work Experience Scheme (SIWES) II**
12 Credits

On the job experience in the industry at a higher level of responsibility than MME 392. (6 months after the second semester of 400 levels).

540h (P); C

**MME 502**

**Materials Process and Plant Design**
3 Credits
Technical and economic problems of planning, commissioning and operation of material and mineral processing plants with particular reference to developing countries. Fundamental principles of material process and plant design. The design steps: definition of the design problem; development of basic design module; information sources; conceptualization; development of flow diagrams; selection of processes and equipment; evaluation of design. Materials-design interaction. Decision theory. Optimization of design. Linear programming, replacement, stock control and scheduling problems. Problem of safety, hazardous effluent disposal and environmental pollution in material plant. Computer-Aided-Design (CAD) and Computer-Aided-Manufacturing (CAM). Selected case studies in mineral processing, furnace design, plastic forming of ceramic products, electroplating, mechanical metallurgy and extrusion of plastics.

45h (T); C, PR: MME 472

MME 521 Introduction to Polymers 3 Credits
Classification of polymers, polymer structure, molecular weight distribution; Basic synthetic and characterization methods; Amorphous state and glass transition, crystalline state; General properties of polymers: physical, chemical, mechanical and electrical; Engineering and specialty polymers: processing and applications; Polymer-based composite materials: fabrication, structure and properties.
45h (T); C

MME 522 Material Failure Analysis 3 Credits
45h (T); C, PR: MME 354

MME 523 Ceramics Science and Technology 3 Credits
Overview of ceramics and classification; Structure and stability of ceramics; Phase formation and development of microstructures; Basic synthesis, processing and characterization methods; Processing of advanced ceramics and applications; General properties and applications of advanced ceramics: electronic, mechanical, optical.
45h (T); C

MME 524 Materials Selection and Economics 3 Credits
Material recycling: principles and economics. Economics of materials exploitation and usage with special regards to present and future availability.
45h (T); C, PR: MME 354, MME 462

MME 525 Composite Materials  
Fundamental aspects including principles, strength, fracture behavior and interfacial reactions. Whisker technology and properties. Fabrication and properties of various reinforcement fibers, behavior of metal-metal, ceramic-metal and fiber-reinforced plastic composites. Applications of composite-glass structures polymeric composites and dispersion strengthened metals.
30h (T); E

MME 526 Introduction to Biomaterials  
The objective of this module is to give students a strong material science and engineering base to biomaterials engineering. The principles of materials science and engineering with particular attention to topics most relevant to biomedical engineering will be covered. This would include atomic structures, heat treatment, fundamental of corrosion, manufacturing processes and characterization of materials. The structure-property relationships of metals, ceramics, polymers and composites as well as hard and soft tissues such as bone, teeth, cartilage, ligament, skin, muscle and vasculature will be described. Behaviour of materials in the physiological environment.
30h (T); E

MME 527 Nuclear Materials  
30h (T); E

MME 528 Introduction to Nanomaterials  
Techniques that are used in synthesis and growth of nanostructures, including clusters, nanodots, nanowells, nanotubes, nanowires, nanocomposite particles, nanostructured thin films and multi-layers; patterning and self-assembly techniques; thermodynamics and kinetics of nanostructures; characterization techniques for nanostructures. Unique properties of nanomaterials: mechanical, electronic, magnetic, optical.
30h (T); E

MME 531 Ferrous Extractive Metallurgy  
2 Credits

30h (T); E, PR: MME 332

MME 532  Non-ferrous Extractive Metallurgy  
2 Credits  

30h (T); E, PR: MME 332

MME 533  Hydrometallurgy  
2 Credits  
Leaching: In-situ leaching, percolation leaching, counter-current bath leaching, microbial leaching, pressure leaching. Examples from extraction of gold, nickel, cobalt, aluminium, copper etc. Chemical precipitation: Principles and examples. Solvent extraction: Principles and examples of single stage process, counter-current multistage process. Resin extraction: principles and examples.

30h (T); E, PR: MME 331

MME 534  Foundry Technology II  
2 Credits  

30h (T); E, PR: MME 431

MME 561  Electrochemistry and Chemical Kinetic  
2 Credits
Structure of the electrical double layer: Helmholtz, Gony-Chapman and Stem model. Electric potential difference for Galvanic cell, electromotive force (EMF) of a cell. Polarity of an electrode: reversible cells; free energy and reversible EMF. Types of half-cells (electrodes). Classification of cells. The standard EMF of cells; standard electrode potential; calculation of EMF of a cell. Electrode concentration of cell. Electrode kinetics: homogeneous chemical reactions; rate of electrochemical reactions; overpotential; transport or concentration overpotential. The hydrogen evolution reaction; rate-determining step; transfer coefficient; symmetry factor and stoichiometric number. Evaluation of rate-determining step and mechanism of hydrogen evolution reaction. Basic principles of corrosion: definition; types and factors affecting corrosion; passivation; polarization; poubiaux diagrams.

30h (T); E, PR: CHM 101

**MME 562** Corrosion Engineering 2 Credits

30h (T); E, PR: MME 461, MME 561

**MME 563** Surface Phenomenon and High Temperature Oxidation 2 Credits

30h (T); E

**MME 564** Materials and Tribology 2 Credits
Friction: Introduction, laws of friction, origin of friction, theories of friction, friction of metals and non-metallic materials. Wear and surface damage: introduction, mechanism of wear, oxidation dominated wear, mechanical wear processes (adhesive, abrasive, delamination wear, etc.); third bodies and wear (e.g. contaminants, debris, etc.). Lubricants and lubrication. Tribological properties of solid materials.

30h (T); E, PR: MME 372

**MME 571** Production Metallurgy 2 Credits
Wire Drawing and limiting reduction, Welding Techniques, Heat Affected Zone and Welding Defects, Weldability of metals and alloys, High-Energy-Rate Forming (HERF), High-Velocity Forming (HVF), High Temperature Metal Forming, their advantages and
the limitations. Finishing Processes to include Mechanical, Chemical, Electrical techniques, Vapourized Metal Coating and Painting.

30h (T); E, PR: MME 471

MME 572 Processing of Ceramics 2 Credits
Methods used in ceramics fabrications and their relationships to the structure and properties. Processing operations including materials preparation, forming and sintering. Manufacturing processes for refractories, glasses, and special ceramics. Macro and microstructures of ceramics. Effect of thermal and chemical treatments.
15h (T), 45h (P); E

MME 573 Powder Metallurgy 2 Credits
30h (T); E

MME 574 Processing of Polymers 2 Credits
Overview of methods used in forming polymers. Application of engineering principles to processing of polymers by commercial fabrication techniques. Rheology, flow phenomena in extruders and dies, extrusion theory, thermal and power requirements, extrusion applications, injection moulding and calendaring.
15h (T), 45h (P); E

MME 593 Materials and Metallurgical Engineering Project I 3 Credits
Original individual student project related to a prescribed Materials and Metallurgical Engineering problem involving literature review, identification, definition, and formulation of the problem, theoretical investigations, modeling, simulation analysis and design.
135h (P); C

MME 594 Materials and Metallurgical Engineering Project II 3 Credits
Second phase of research investigation involving the fabrication of the designed model, debugging, calibration, testing, data collection and analysis, and presentation of a comprehensive written report of the investigation.
135h (P); C

Note: Details of other courses in the Department of Materials and Metallurgical Engineering are available in relevant Departments as follows: ABE courses in Agricultural and Biosystems Engineering; GNS courses in General Studies Division;
GSE from Technical Entrepreneurship Centre;
CHE courses in Chemical Engineering Department;
CVE courses in Civil Engineering Department;
ELE courses in Electrical and Electronics Engineering Department;
MEE courses in Mechanical Engineering Department, and
BUL in Faculty of Law.

SUMMARY

100 LEVEL

Required Courses: GNS 111 (2), GNS 112 (2) = 4 Credits
Elective Courses: STA 131 (2), STA 124 (2) = 4 Credits

At least 9 credits must be passed out of the following:
MAT 111 (3), 113 (3), 112 (3), 114 (3) = 9 Credits
At least 9 credits must be passed out of the following:
PHY 115 (2), 125 (3), 142 (2), 152 (3), 191 (1), 192 (1) = 9 Credits

At least 6 credits must be passed out of the following:
CHM 101 (3), 112 (2), 115 (2), 116 (1), 132 (2) = 6 Credits

Total = 4 Credits

200 LEVEL

Compulsory Courses: MEE 217 (2), 235 (2), 283 (2), 218 (2), MME 272 (2), 284 (2), 222 (6) = 18 Credits

Required Courses: ABE 263 (3), 206 (2), CHE 241 (3), 242 (3), 264 (3), CVE 253 (3), 254 (3),
ELE 201 (3), 275 (1), 202 (3), 276 (2), GNS 211 (2), 212 (2) = 33 Credits

Direct Entry Students: GNS 111 (2), GNS 112 (2) = 4 Credits

Total = 51 Credits
### 300 LEVEL

**Compulsory Courses:**
MME 311 (2), 331 (3), 341 (2), 351 (2), 381 (2), 372 (2), 332 (2), 342 (2), 352 (2), 354 (3), 382 (2), 392 (6)  
\[= 30 \text{ Credits}\]

**Required Courses:**
ABE 306 (2), 376 (1), CHE 341 (3), GSE 301 (3), GNS 311 (2), MEE 361 (3), 362 (3)  
\[= 17 \text{ Credits}\]

**Direct Entry Students:**
GNS 111 (2), GNS 112 (2), GNS 211 (2), 212 (2)  
\[= 8 \text{ Credits}\]

**Total:** 47 Credits

### 400 LEVELS

**Compulsory Courses:**
MME 491 (12), 421 (3), 431 (3), 441 (2), 451 (2), 461 (2), 471 (3)  
\[= 31 \text{ Credits}\]

**Required Courses:**
ABE 463 (2), MEE 445 (2)  
\[= 4 \text{ Credits}\]

**Total:** 35 Credits

### 500 LEVEL

**Compulsory Courses:**
MME 521 (3), 523 (3), 593 (3), 502 (3), 522 (3), 524 (3), 594 (3)  
\[= 21 \text{ Credits}\]

**Required Courses:**
ABE 501 (3), ABE 573 (1), MEE 505 (3), BUL 506 (3)  
\[= 10 \text{ Credits}\]

**Elective Courses:**
Students are expected to choose any four from the following, two in each semester  
MME 525 (2), 527 (2), 531 (2), 533 (2), 561 (2), 563 (2), 571 (2), 573 (2), 526 (2), 528 (2), 532 (2), 534 (2), 562 (2), 564 (2), 572 (2), 574 (2)  
\[= 8 \text{ Credits}\]

**Total:** 39 Credits

### GRADUATION REQUIREMENTS

1. Major Engineering Courses (ABE, CHE, CVE, ELE, MEE, MME)  
\[= 128 \text{ Credits}\]

2. Students’ Industrial Works Experience Scheme (SIWES)  
\[= 18 \text{ Credits}\]

3. Students Work Experience Programme (SWEP)  
\[= 6 \text{ Credits}\]

4. General Studies Courses: (GNS 111, 112, 211, 212, 311)  
\[= 10 \text{ Credits}\]

5. Minimum Electives  
\[= 8 \text{ Credits}\]
6. Law and Entrepreneurial Skill courses
   (GSE 301 (3), BUL 506 (3))                        6 Credits
   Total = 176 Credits

   UTME: 176 Credits
   DE (200L): 176 Credits
   DE (300L): 129 Credits

   COMPUTATION OF GRADE POINT
   1. 100 level courses are not used for computation of CGPA except GNS 111 (2), GNS 111 (2)
   2. The 18 credits of SIWES I and SIWES II must be passed but they are not used for computation of CGPA
   3. The minimum Credits that will be used to compute the CGPA for all options are as follows:
      For UTME/DE at 200 and 300 levels

<table>
<thead>
<tr>
<th>Level</th>
<th>UTME</th>
<th>DE (200L)</th>
<th>DE (300L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Level</td>
<td>4</td>
<td>-</td>
<td>-</td>
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<tr>
<td>200 Level</td>
<td>51</td>
<td>55</td>
<td>-</td>
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<tr>
<td>300 Level</td>
<td>41</td>
<td>41</td>
<td>49</td>
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<tr>
<td>400 Level</td>
<td>23</td>
<td>23</td>
<td>23</td>
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<tr>
<td>500 Level</td>
<td>39</td>
<td>39</td>
<td>39</td>
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<tr>
<td>Total</td>
<td>158 Credits</td>
<td>158 Credits</td>
<td>111 Credits</td>
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</tbody>
</table>

   DEPARTMENT OF MECHANICAL ENGINEERING

   Course Description

   B. Eng. Mechanical Engineering

   MEE 217 Engineering Graphics I 2 Credits
Lettering, Geometrical construction, dimensioning, orthographic projection, auxiliary and sectional views, true lengths, graphical calculus and architectural drawings.

15h (T), 45h (P); C

MEE 218  Engineering Graphics II  2 Credits
Advanced topics in auxiliary and sectional views, development, intersection of surfaces, isometric projection, dimensioning and tolerances: Introduction to computer-aided graphics. Blue – print reading.

15h (T), 45h (P); C

MEE 222  Students’ Work Experience Programme (SWEP)  6 Credits
Introduction to practices and skills in general engineering through instruction in operation of hand and powered tools for wood and metal cutting and fabrication. Supervised hands-on experience in safe usage of tools and machines for selected tasks: General practices on automobile repairs, survey, civil and electrical engineering works.

270h (P); C

MEE 235  Engineering Technology  2 Credits
Introduction to workshop practice, industrial safety, machine tools and fabrication technology. Use of hand tools and engineering approach to design.

15h (T), 45h (P); C

MEE 272  Engineering Materials  2 Credits
Introduction to electronic configuration, atomic structures, interatomic bonding mechanisms, crystal and microstructure. Relationship between structure and properties of metals, alloys, ceramics and plastics. Principles of the behaviour of materials in common environments. Fabrication processes and applications.

30h (T); C

MEE 283  General Engineering Laboratory I  2 Credits

90h (P); C

MEE 284  General Engineering Laboratory II  2 Credits
Laboratory investigation and report submission for selected experiments and projects in Fundamentals of Thermodynamics, Engineering Materials, Engineering Mechanics II and Applied Electricity II.

90h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEE 302</td>
<td>Metallurgy</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Metals and alloys: production and use. Phase</td>
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<tr>
<td></td>
<td>diagrams, iron carbon system, nature, origin</td>
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<tr>
<td></td>
<td>and control of structure in metallic systems</td>
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<td></td>
<td>and their relations to mechanical properties.</td>
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<td>Tool steels, diffusion, deformation, hardening</td>
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<tr>
<td></td>
<td>and transformation phenomena, heat treatment,</td>
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<td></td>
<td>metallographic laboratory practice.</td>
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<td></td>
<td>30h (T); C, PR; MEE 272</td>
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<tr>
<td>MEE 311</td>
<td>Mechanics of Deformable Bodies I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Three dimensional stress and strain. Theories</td>
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<tr>
<td></td>
<td>of failure. Stress concentration factor.</td>
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<tr>
<td></td>
<td>Moments and products of inertia and area.</td>
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<tr>
<td></td>
<td>Mohr’s strain and inertia circles. Unsymmetrical</td>
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<tr>
<td></td>
<td>bending, shear center and curved beams.</td>
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<td></td>
<td>30h (T); C, PR: CVE 251</td>
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<tr>
<td>MEE 313</td>
<td>Engineering Experimentation</td>
<td>3</td>
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<tr>
<td></td>
<td>Fundamentals of instrumentation and techniques</td>
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<td>for measurement of mechanical phenomena, such</td>
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<td></td>
<td>as temperature, flow, pressure, force, stress,</td>
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<td></td>
<td>displacement, velocity and acceleration.</td>
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<td></td>
<td>Transducers design techniques and construction</td>
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<td></td>
<td>of simple measuring devices.</td>
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<td></td>
<td>30h (T), 45 (P); C</td>
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<tr>
<td>MEE 324</td>
<td>Dynamics</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Applied vector mechanics of particles and rigid</td>
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<tr>
<td></td>
<td>bodies. Kinetics of rigid and non-rigid bodies</td>
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<tr>
<td></td>
<td>in space. Moment and product of inertia of</td>
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<tr>
<td></td>
<td>masses. Euler and Lagrange equations.</td>
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<td>30h (T); C, PR: CVE 253</td>
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<tr>
<td>MEE 333</td>
<td>Machine Drawing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Part assembly and detailed drawing of machine</td>
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<tr>
<td></td>
<td>components. Sketching and use of standards,</td>
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<tr>
<td></td>
<td>design features, symbols, screws, fasteners,</td>
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<tr>
<td></td>
<td>couplings, clutches, gears etc. Introduction to</td>
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<tr>
<td></td>
<td>Computer-aided drawing</td>
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<tr>
<td></td>
<td>15h (T), 45 (P); C, PR: MEE 217 or 218</td>
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<tr>
<td>MEE 334</td>
<td>Machine Design</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Application of mechanical engineering theories</td>
<td></td>
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<tr>
<td></td>
<td>to machine component design. Analysis, synthesis</td>
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<td>and evaluation procedures in creative design.</td>
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<tr>
<td></td>
<td>Use of codes, charts, tables, standards and</td>
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<td>empirical data. Presentation of design portfolio.</td>
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<td>15h (T); 45h (P); C</td>
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<tr>
<td>MEE 342</td>
<td>Manufacturing Processes I</td>
<td>3</td>
</tr>
</tbody>
</table>
Fundamental principles of metal cutting, welding, casting and forming. Machining process: milling, grinding, planning, turning, drilling and shaping. Welding methods, features and principles of operation for arc welding, gas welding, resistance welding. Casting methods, features and principle of operations for sand casting, gravity casting, metal mould casting, squeeze casting, die metal casting. Forming methods, features and operation for shearing, bending, blanking, drawing. Tool economics and principle of operation of presses.

45h (T); C

MEE 344  Tribology  2 Credits
Principles of friction, lubrication and wear, viscosity, dry and boundary friction. Surface studies, topography and quality. Hydrostatic, hydrodynamic and air lubrication, lubricants and materials for tribological applications.
30h (T); C

MEE 353  Thermodynamics and Heat Transfer  3 Credits
45h (T); C, PR: MEE 242

MEE 356  Mechanics of Machines I  3 Credits
45h (T); C

MEE 358  Fluid Mechanics I  3 Credits
Incompressible fluid flow, conservation of mass, energy and momentum, constitutive relations and boundary conditions. Navier-Stokes’ equations. Flow through pipes and ducts. High and low Reynolds number flows. Two dimensional potential flow.
45h (T); C, PR: CHE 241

MEE 361  Engineering Mathematics III  3 Credits
NUMERical analysis and its application to engineering problems. Operational methods, Laplace transform, series and special functions in engineering.
45h (T); C, PR: ABE 263

MEE 362  Engineering Mathematics IV  3 Credits

45h (T); C, PR: ABE 264

MEE 373 Mechanical Behaviour of Materials 2 Credits
30h (T); C, PR: MEE 272

MEE 381 Mechanical Engineering Laboratory I 2 Credits
90h (P); C

MEE 382 Mechanical Engineering Laboratory II 2 Credits
Laboratory investigations and report submission for selected experiments in Metallurgy, Dynamics, Mechanics of Machines I and Manufacturing Process I.
90h (P); C

MEE 392 Student Industrial Work Experience Scheme (SIWES) I 6 Credits
On the job experience in industry chosen for its relevance to student’s major. (12 weeks during the long vacation following 300 level)
270h (P); C

MEE 403 Dynamics of Machinery 3 Credits
Free and forced vibrations of lump mass-spring systems with and without damping, whirling of shafts, critical speed, vibration isolation and transmissibility, two-degrees of freedom system, dynamic absorbers, continuous systems and balancing of rotors.
45h (T); E

MEE 405 Electrical Machines for Mechanical Engineers 3 Credits
Electromechanical energy conversion concepts. Construction and operating characteristics of DC machines: series, shunt and compound. Construction and operating characteristics of AC machines: Induction, synchronous. Three-phase alternators,

**MEE 407 Industrial Management**

2 Credits

Work study, payment systems and performance levels including job evaluation, production control, Gantt Charts and manual scheduling, labour and organization Critical Path Analysis and resources allocation and inventory control.

30h (T); E

**MEE 421 Mechanics of Machines II**

3 Credits

Kinetics of rotating and reciprocating masses and the balancing of their out-of-balance forces. Elements of vibratory systems, free and forced vibrations of first and second degree systems. Critical speed, whirling of shafts, vibration isolation and transmissibility.

45h (T); C, PR: MEE 356

**MEE 431 Design of Machine Elements**

3 Credits

Application of stress analysis, failure theories and material selection to design of mechanical elements and systems. Fatigue resistance, stress concentration, contact stress, lubrication in design of shafts and bearings. Operational, environmental and manufacturing considerations.

45h (T); C, PR: MEE 334

**MEE 441 Metrology, Quality Control and Reliability**

2 Credits

Standards. instrumentation for precision measurements. Flatness and precision surface inspection. Application of statistics and probability theory to the design and analysis of procedures for control of production processes. Sampling, design and management of reliability engineering.

30h (T); C

**MEE 443 Fluid Mechanics II**

3 Credits

Thermodynamic and dynamic principles applied to fluid behaviour, stream function and velocity potential, ideal, viscous and compressible fluids under internal and external flow conditions. Inviscid flow, boundary layer, vorticity and rotation of fluid particles. Shock. Flow machines and cavitation.

45h (T); C, PR: MEE 355

**MEE 445 Industrial Engineering I**

2 Credits

Work study, payment systems, job evaluation, production planning and control. Resource allocation, inventory control, ordering and motion study.

30h (T); C
MEE 451  Advanced Thermodynamics  3 Credits
45h (T); C, PR: MEE 353

MEE 463  Energy Conversion Systems  3 Credits
Primary and secondary types of energy and their interconvertibility: physical and chemical Magneto-Hydrodynamics (MHD): wind, geothermal, thermo mechanical, nuclear biomass, etc. Principal fuels for energy conversion. Direct and indirect conversion of primary energy. Power station economics, power load estimation and forecasting.
45h (T); C

MEE 473  Metallurgical Thermodynamics  2 Credits
30h (T); E

MEE 475  Welding Processes  2 Credits
30h (T); C

MEE 481  Mechanical Engineering Laboratory Course III  2 Credits
Laboratory investigations and report submission for selected experiments in major departmental courses of the production, design, thermofluid and metallurgical options.
90h (P); C

MEE 492  Students’ Industrial Work Experience Scheme (SIWES) II  12 Credits
On the job experience at a higher level of responsibility than MEE 342. (six months during the second semester 400 level and long vacation).

540h (P); C

**MEE 502 Special Topics in Mechanical Engineering** 2 Credits
Independent study under the guidance of a lecturer in the specialized Department in the subject area of an analytical or experimental mechanical problems.
15h (T), 45h (P); C

**MEE 503 Control Theory** 3 Credits
30h (T), 45h (P); C, PR: ELE 201, MEE 361

**MEE 505 Applied Computer Programming** 3 Credits
Development of programming languages such as FORTRAN, BASIC, ALGOL, etc. Application of computers to solving numerical, statistical and a variety of mathematical/engineering problems. Simulation and optimization techniques.
30h (T), 45h (P); C

**MEE 506 Auto-Mechanical System Engineering** 3 Credits
Production, assembly line and power systems control techniques. Principle of automation in mechanized systems. Application of thermal, pneumatic, hydraulic and fluidic systems to automatic control in plant processes and machinery.
30h (T), 45h (P); C (Compulsory for Design Engineering only)

**MEE 511 Mechanics of Deformable Bodies II** 3 Credits
30h (T), 45h (P); C, PR: MEE 311

**MEE 513 Elasticity** 3 Credits
30h (T), 45h (P); E, PR: MEE 311
MEE 514 Plasticity 3 Credits
30h (T), 45h (P); E, PR: MEE 311 (Not to be taken with MEE 511)

MEE 516 Gas Dynamics and Turbomachinery 3 Credits
30h (T), 45h (P); C, PR: MEE 443

MEE 524 Mechanical Vibrations 3 Credits
45h (T); C

MEE 541 Manufacturing Processes II 3 Credits
30h (T), 45h (P); C

MEE 543 Industrial Engineering II 3 Credits
45h (T); C

MEE 545 Mechanical Handling of Materials 3 Credits
Economics of material handling in industry. Constructional details and working principles of appliances for labour saving. Theory of handling equipment, capacity, resistance to motion, power requirements etc. pneumatic handling, hydraulic handling, automatic feed devices, intermittent handling devices and their specific applications.
45h (T); C

MEE 551 Refrigeration and Air Conditioning 3 Credits
Application of thermodynamics theory and design principles to conform cooling, food refrigeration and cryogenic systems.
Characteristics of refrigeration control systems. Economic aspects and optimization, krypton-refrigeration.

30h (T); 45h (P); PR: MEE 353

MEE 554  
Heat and Mass Transfer  
3 Credits
30h (T), 45h (P); C, PR: MEE 353

MEE 561  
Internal Combustion Engines  
3 Credits
30h (T), 45h (P); C, PR: MEE 353

MEE 562  
Alternative Power Sources  
3 Credits
Energy conversion, transmission and storage. Alternative sources of energy: solar energy, nuclear, wind and tides. Direct energy conversion systems. Economics, environmental and other considerations. (Compulsory for Thermofluids)
30h (T), 45h (P); C, PR: MEE 353

MEE 574  
Fracture Mechanics and Failure Analysis  
3 Credits
30h (T), 45h (P); C

MEE 582  
Casting and Solidification  
2 Credits
30h (T), C, (Not to be taken with MEE 547)

MEE 584  
Ceramics and Polymeric Materials  
3 Credits

30h (T), 45h (P); C

MEE 586 Iron and Steel Metallurgy 2 Credits
15h (T), 45h (P); C, PR: MEE 481

MEE 588 Corrosion and Protection 3 Credits
Qualitative application of electrochemical principles to corrosion reactions. Effect of metallurgical factors: atmospheric, soil or aqueous environments. Oxidation and tarnish. Stray current. Cathodic and anodic protection Metallic and inorganic coatings and inhibitors. Selection of materials.
30h (T), 45h (P); C

MEE 593 Mechanical Engineering Project I 3 Credits
Original individual student project related to a prescribed Mechanical Engineering problem involving literature review, identification, definition and formulation of the problem, theoretical investigations, modelling simulation, analysis and design.
135h (P); C

MEE 594 Mechanical Engineering Project II 3 Credits
Second phase of investigations involving the implementation of the designed model. Debugging, calibration, testing, data collection, analysis and presentation of a comprehensive written report of the investigations.
135h (P); C; PR: MEE 593

MEE 595 Material Selection and Application 2 Credits
Metallurgical and mechanical factors governing the selection of metals of various services. Analysis of service requirements and the selection and fabrication of metals to fulfill such requirements. Analysis of service failures. Study of methods and equipment.
15h (T), 45h (P); C

MEE 596 Nuclear Materials 3 Credits

**MEE 597** Composite Materials

**30h (T), 45h (P); E**

**MEE 598** Elements of Powder Technology

**15h (T), 45h (P); E**

**MEE 599** Furnace, Refractories and Fuel Technology

**15h (T), 45h (P); E**

**Note:** Details of other courses in the Department of Mechanical Engineering are available in relevant Departments as follows:
- ABE courses in Agricultural and Biosystems Engineering;
- GNS courses in General Studies Division;
- GSE from Technical Entrepreneurship Centre;
- CHE courses in Chemical Engineering Department;
- CVE courses in Civil Engineering Department;
- ELE courses in Electrical and Electronics Engineering Department;
- STA, MAT, PHY and CHM courses in Faculty of Physical Sciences, and
- BUL in Faculty of Law.
SUMMARY

100 LEVEL

Required Courses: GNS 111 (2), GNS 112 (2) = 4 Credits

Elective Courses: STA 131 (2), STA 124 (2) = 4 Credits
At least 9 credits must be passed out of the following:
MAT 111 (3), 113 (3), 112 (3), 114 (3) = 9 Credits
At least 9 credits must be passed out of the following:
PHY 115 (2), 125 (3), 142 (2), 152 (3), 191 (1), 192 (1) = 9 Credits
At least 6 credits must be passed out of the following:
CHM 101 (3), 112 (2), 115 (2), 116 (1), 132 (2) = 6 Credits
Total = 4 Credits

200 LEVEL

Compulsory Courses: MEE 217(2), 218(2), 222(6), 235(2), 272(2), 283(2), 284(2) = 18 Credits

Required Courses: ABE 206(2), 263(3), 241(3), CHE 242(3), 264(3), CVE 253(3), 254(3), ELE 201(3), 202(3), 275(1), 276(2), GNS 211(2), 212(2) = 33 Credits
Total = 51 Credits

Direct Entry Students: GNS 111(2), GNS 112(2) = 4 Credits

300 LEVEL

Compulsory Courses: MEE 302(2), 311(2), 313(3), 324(2), 331(2), 334(2), 342(3), 344(2), 353(3), 358(3), 361(3), 362(3), 373(2), 383(1), 384(1), 392(6) = 43 Credits

Required Courses: ABE 306(2), 376(1), GNS 311(2), GSE 301(3) = 8 Credits
Total = 51 Credits

Direct Entry Students: GNS 111(2), 112(2), 211(2), and 212(2) = 8 Credits

400 LEVEL
COMMON COURSES

Compulsory Courses: MEE 405(3), 443(3), 445(2), 481(2), 492 (12) = 22 Credits

Required Courses: ABE 463(2) = 2 Credits

ENGINEERING DESIGN, PRODUCTION AND MANUFACTURING OPTIONS:
MEE 421(3), 431(3), 441(2), 463(3), 403(3), 407(2), 475(2) = 18 Credits

Total = 42 Credits

THERMOFLUID OPTION:
MEE 432(3), 452(3), 464(3), 473(2) = 11 Credits

Total = 35 Credits

500 Level

COMMON COURSES

Compulsory Courses: MEE 505(3), 503(3), 593(3), 594(3) = 12 Credits

Required Courses: ABE 501(3), 573(1), BUL 506(3) = 7 Credits

Elective Courses: At least 2 Credits from: CVE 341(2), ELE 312(2) = 2 Credits

ENGINEERING DESIGN OPTIONS:
MEE 511(3), 524(3), 541(3), 551(3) = 12 Credits

Total = 33 Credits

PRODUCTION OPTION:
MEE 524(3), 541(3), 543(3), 551(3) = 12 Credits

Total = 33 Credits

THERMOFLUID OPTION:
MEE 516(3), 551(3), 554(3), 561(3), 524(3) = 15 Credits

Total = 36 Credits
GRADUATION REQUIREMENTS FOR ALL OPTIONS:

<table>
<thead>
<tr>
<th></th>
<th>ENGINEERING DESIGN</th>
<th>PRODUCTION</th>
<th>THERMOFLUID</th>
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<tr>
<td>Major Engineering Courses (ABE, CHE, CVE, ELE, MEE)</td>
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<td>Minimum Electives</td>
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<td>General Study Courses</td>
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<td>SWEP</td>
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<tr>
<td>SIWES ( I &amp; II)</td>
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<td>18</td>
<td>18</td>
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<tr>
<td>Law and Entrepreneurship skill Courses (GSE, BUL)</td>
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<tr>
<td>UTME</td>
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<tr>
<td>DE (200L)</td>
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<tr>
<td>DE (300L)</td>
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COMPUTATION OF GRADE POINT FOR ALL OPTIONS

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<tr>
<th>Departmental Options</th>
<th>ENGINEERING DESIGN</th>
<th>PRODUCTION AND MANUFACTURING</th>
<th>THERMOFLUID</th>
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<td>UTME    DE (200L) DE (300L)</td>
<td>UTME DE (200L) DE (300L)</td>
<td>UTME DE (200L) DE (300L)</td>
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<td>100 Level</td>
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<td>4        -              -</td>
<td>4        -              -</td>
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DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

Course Description

B. Eng. Water Resources and Environmental Engineering

WEE 222  Students’ Work Experience Programme  6 Credits
Introduction to practices and skills in general engineering through instruction in operation of hand and powered tools for wood and metal cutting and fabrication. Supervised hands - on experience in safe usage of tools and machines for selected tasks.
270h (P); C

WEE 283  General Engineering Laboratory Course I  2 Credits
Laboratory investigation and report submission for selected experiments and projects In Applied Mechanics and Applied Electricity I and Fundamental’s of Fluid Mechanics.
90 (P); C

WEE 284  General Engineering Laboratory Course II  2 Credits
Laboratory investigations and report submission for selected experiments and projects in fundamentals of thermodynamics. Engineering materials, Applied Mechanics II and Applied Electricity II
90h (P); C

WEE 383  Water and Environmental Engineering Laboratory I  1 Credit
Laboratory Investigations and report submission for selected experiments in Engineering materials and Hydraulics
45h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>WEE 384</td>
<td>Water and Environmental Engineering Laboratory II</td>
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<tr>
<td></td>
<td>Laboratory Investigations and report submission for selected experiments in Surveying, soil mechanics and Environmental Chemistry.</td>
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<tr>
<td></td>
<td>45h (P); C</td>
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<tr>
<td>WEE 392</td>
<td>SIWES I</td>
<td>6</td>
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<tr>
<td></td>
<td>On the job experience in industry relevant to Water Resources and Environmental Engineering (10 weeks during the long vacation following 300 level)</td>
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<tr>
<td></td>
<td>270 h (P); C</td>
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<tr>
<td>WEE 411</td>
<td>Environmental Engineering</td>
<td>3</td>
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<tr>
<td></td>
<td>Design of unit operations and processes in water and wastewater treatment, sedimentation, chemical coagulation, ion exchange, filtration, dis-infection. Water supply; treatment and distribution. Physical, chemical and microbiological factors in water quality measurements. Wastewater handling, treatment and disposal. Solid waste disposal, Air pollution and control.</td>
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<tr>
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<td>45h (T); C</td>
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<tr>
<td>WEE 425</td>
<td>Design of Hydraulic Structures</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>WEE 431</td>
<td>Hydraulics</td>
<td>3</td>
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<tr>
<td></td>
<td>Viscous flow, pressure drop, shear stress, viscosity, Reynold's number, applications, ideal fluid flow, flow patterns, superposition of flows. Fluid measurements and flows in parallel plates, pipes and circular spaces, velocity and pressure distribution, relative roughness. Pumps and turbines, Open channel flow, weirs.</td>
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<td>45h (T), C, PR: CHE 241</td>
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<tr>
<td>WEE 433</td>
<td>Engineering Hydrology</td>
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</table>
WEE 471  Watershed Systems Management  2 Credits
Examination of methods in watershed management with a focus on integrated water resources management (IWRM). Topics include: integration, participatory management, water resources assessment, modeling, planning, adaptive management, transboundary management, and transition management.
30h (T); C

WEE 481  Water and Environmental Engineering Laboratory III  2 Credits
Laboratory investigations and report submission for selected experiments in Environmental, Hydraulics / Hydrology and Transportation Engineering demonstrations drawn from topics in prescribed areas.
90h (P); C

WEE 485  Engineering Practices and Quantities  2 Credits
30h (T); C

WEE 492  SIWES II  12 Credits
On the job experience in industry at higher level of responsibility than WEE 392. (During the second semester of 400 Level).
270h (P); C

WEE 511  Engineering Hydraulics  2 Credits
Water distribution networks, analysis and design, steady uniform flow, steady gradually varied flow, classification and computation of water surface profiles, hydraulic jump, stilling basins, unsteady flow in closed conduits, water hammer, surge and surge control, hydraulic models.
30h (T); C, PR: WEE 431

WEE 515  Water and Wastewater Engineering  3 Credits
Application of design principles for a variety of water purification systems, including drinking water, municipal wastewater, industrial wastewater and agricultural wastewater. Design of physical, chemical and biological unit operations, and evaluating the optimum combination to satisfy the given design constraints and criteria. The optimum designs integrate engineering science, basic science, economics, and occupational health and safety for the workers and the public.
30h (T); 45h (P); C, PR: WEE 411
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WEE 516</td>
<td>Water Resources Engineering</td>
<td>3</td>
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<tr>
<td></td>
<td>Application of principle of hydraulic and hydrology to problems in the control, conservation and usage of water, flood control, water power, water supply, irrigation, navigation, and river basin planning. Basic concepts of systems and economic analysis as applied to water resources.</td>
<td></td>
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<tr>
<td></td>
<td>30h (T); 45h (P); C, PR: WEE 433</td>
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</tr>
<tr>
<td>WEE 517</td>
<td>Solid Waste Engineering and Management</td>
<td>2</td>
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<tr>
<td></td>
<td>Detailed engineering and management considerations related to the design and operation of solid wastes collection and disposal system, solid wastes survey, systems approach design, of land disposal operations; incinerator evaluations and design.</td>
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<td></td>
<td>30h (T); C, PR: WEE 334, WEE 411</td>
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<tr>
<td>WEE 519</td>
<td>Air Quality</td>
<td>2</td>
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<tr>
<td></td>
<td>30(h); C</td>
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<tr>
<td>WEE 521</td>
<td>Irrigation and Drainage</td>
<td>3</td>
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<tr>
<td></td>
<td>Water requirements in an irrigation system, Methods of irrigation, Frequency and amount of irrigation, Irrigation water scheduling, Evaluation of irrigation systems and practices. Design of furrow, basin and sprinkler irrigation. Effect of poor drainage on plants and soils, Drainage requirement of crops, surface drainage, sub-surface drainage.</td>
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<tr>
<td></td>
<td>45(h); C</td>
<td></td>
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<tr>
<td>WEE 524</td>
<td>Urban Water System Design</td>
<td>3</td>
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<tr>
<td></td>
<td>Estimation of water quantity and quality needed for urban water supply and drainage, Design of water supply, pumping systems, pipe networks and distributed storage reservoirs from analysis of steady and transient, pressurized and free surface flow. Rates of generation of flows and pollutants to sanitary and storm sewers, design of buried pipe and open channel drainage systems with structures for flow and pollution control, Modeling of water systems for sustainable urban development.</td>
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<td></td>
<td>45h (T); C, PR: WEE 411, WEE 431</td>
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<tr>
<td>WEE 526</td>
<td>Groundwater Hydrology</td>
<td>3</td>
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<tr>
<td></td>
<td>This course provides a general understanding of the physical and chemical processes that operate in the groundwater zone under natural and human-induced conditions. The interrelations between the groundwater regime and the other components of the hydrological cycle are studied. Considerable emphasis is placed on the applied aspects of topics such as exploration, testing and development of aquifers for water supply, the chemical quality of groundwater, and the hydrogeological aspects of waste disposal.</td>
<td></td>
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</tbody>
</table>
45h (T); C, PR: WEE 433

WEE 528  Elements of Public Health  2 Credits
Introduction of the concept of interdependence of man and other forms of life in the ecosystem, the process adaptation, community structure and organization. How the relationship of man to his social environment influences health and the occurrence of disease. Human ecology, medical sociology, social psychology and anthropology.

30h (T); C, PR: WEE 411

WEE 584  Computer Applications in Water Resources and Environmental Eng.  2 Credits
Review of Computer programming and programming languages (Fortran, Basic, Visual Basic etc). Computer applications in hydraulics, hydrology, environmental engineering and surveying. Individual or group projects on computer solutions of specific problems.

15h (T), 45h (P); C, PR: ELE 275, ELE 276

WEE 593  Water Resources and Environmental Engineering Project I  4 Credits
Original individual student research project related to a prescribed water resource, hydraulic, hydrology and environmental Engineering problem, involving literature review, identification, definition and formation of the problem, theoretical and or experimental investigations, modelling, simulation analysis and design.

15h (T), 180h (P); C

WEE 594  Water Resources and Environmental Engineering Project II  4 Credits
Second phase of project work involving the fabrication of the designed model, debugging, calibration, testing, data collection and analysis and presentation of a comprehensive written report of the investigation.

15h (T), 180h (P); C

Note: Details of other courses in the Department of Water Resources and Environmental Engineering are available in relevant Departments as follows:
ABE courses in Agricultural and Biosystems Engineering;
GNS courses in General Studies Division;
GSE from Technical Entrepreneurship Centre;
CHE courses in Chemical Engineering Department;
CVE courses in Civil Engineering Department;
ELE courses in Electrical and Electronics Engineering Department;
MEE courses in Mechanical Engineering Department;
STA, MAT, PHY, GEM and CHM courses in Faculty of Physical Sciences, and BUL in Faculty of Law.
SUMMARY

100 LEVEL

Required Courses:  GNS 111 (2), GNS 112 (2) = 4 Credits

Elective Courses:  STA 124 (2), STA 131 (2)
At least 9 credits must be passed out of the following Mathematics Courses:
MAT 111(3), MAT 112(3), MAT 113(3), MAT 114(3)

At least 9 credits must be passed out of the following Physics Courses:
PHY 115(2), PHY 125(3), PHY 142(2), PHY 152(3), PHY 191(1), PHY 192(1)

At least 6 credits must be passed out of the following Chemistry Courses:
CHM 101(3), CHM 112(2), CHM 132(2), CHM 115(2), CHM 116(1)
Total = 4 Credits

200 LEVEL

Compulsory Courses:  WEE 222 (6), WEE 283(2), WEE 284 (2) = 10 Credits

Required Courses:  GNS 211(2), GNS 212(2), CVE 253(3), CVE 254(3), ELE 201(3),
ELE 202(3), MEE 217(2), MEE 218(2), MEE 235(2), CHE 241(3),
ELE 276(2), MEE 272(2), ABE 263(3), ABE 206(2)
Total = 41 Credits

Direct Entry Student:  GNS 111(2) and GNS 112(2)
Total = 4 Credits

300 LEVEL

Compulsory Courses:  WEE 383(1), WEE 384(1), WEE 392(6) = 8 Credits

Required Courses:  CVE 322(3), CVE 341(3), CVE 351(3), CVE 352(3), CVE 362(2),
CVE 363(2), CVE 365(2), CVE 366(2), CVE 353(2), MEE 361(3),
319(2), GNS 311(2), GSE 301(3),
ABE 376(1), ABE 306(2), MEE 362(3)
Total = 41 Credits
Direct Entry Students:  GNS 111 (2), 112 (2), 211 (2) and 212 (2) = 8 Credits

400 LEVEL

Compulsory Courses:  WEE 411(3), WEE 425(2), WEE 431(3), WEE 433(2), WEE 471(2), WEE 481(2), WEE 485(2), WEE 492(12)  = 28 Credits

Required Courses:  ABE 463(2), CHM 415(2), CVE 473(2) = 6 Credits

Total = 34 Credits

500 LEVEL

Compulsory Courses:  WEE 511(2), WEE 515(3), WEE 516(3), WEE 517(2), WEE 519(2), WEE 521(3), WEE 524(3), WEE 526(3), WEE 528(2), WEE 584(2), WEE 593(4), WEE 594(4)  = 33 Credits

Required Courses:  ABE 501(3), ABE 573(1), BUL 506(3) = 7 Credits

Total = 40 Credits

GRADUATION REQUIREMENTS

1. Major Engineering Courses (ABE, CHE, CVE, ELE, MEE, WEE) 131 Credits
2. Courses from other Department outside the Faculty (CHM 319, CHM 415, GEM 217, GEM 319, BUL 506) 10 Credits
3. General Studies Courses: (GNS 111, 112, 211, 212, 311) 10 Credits
4. Students’ Industrial Work Experience Scheme (SIWES) 18 Credits
5. Students’ Work Experience Programme (SWEP) 6 Credits
6. Survey Camp (CVE 353) 2 Credits
7. Entrepreneurship Skill (GSE301) 3 Credits
8. Total Credits Required 180 Credits

UTME:  180 Credits

DE (200): 180 Credits
DE (300): 133 Credits

COMPUTATION OF GRADE POINT

1. 100 level courses are not used for computation of CGPA except GNS 111 (2), GNS 112 (2)
2. The 18 credits of SIWES must be passed but they are not used for computation of CGPA
3. The 2 credits of Survey Camp must be passed but they are not used for computation of CGPA
4. The minimum credits that will be used to compute the CGPA for all options are as follows:

For UTME / DE at 200 and 300 levels, credits that will be used to compute the CGPA are as follows:

(a) UTME / Direct Entry at 200 level
To qualify for the award of Bachelor of Engineering (B.Eng) Water Resources and Environmental Engineering, a student for the 4/5 years programme will require 161 credits for computation of final grade while Direct Entry at 300 level will require 114 credits for computation of final grade.

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<td>100 Level</td>
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<td>200 Level</td>
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<td>300 Level</td>
<td>41 + SWEP (6) = 47</td>
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<tr>
<td>400 Level</td>
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<td>500 Level</td>
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(b) Direct Entry at 300 Level

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FACULTY OF ENVIRONMENTAL SCIENCES

FACULTY OFFICE

A. Babalola.  B. Tech., M. Tech. (MAUTECH); PGDE; Ph.D. (Malaysia)  Senior Lecturer & Ag. Dean

A. I. Bako  HND; PGD; MURP (Ibadan); MBA (LAUTECH); Ph.D. (FUTA); MNITP; RTP Lecturer I & Sub-Dean

Taiwo K. Afolayan  B.A. (Ibadan) Faculty Officer

T. A. Giwa  B. Tech., M.Tech. (ATBU); Ph.D. (Sheffield) NUC Fellow & Coordinator

A.M.O. Atolagbe  B.Sc., M.Sc. (ABU); Ph.D. (Ilorin); MNIA Visiting Reader

T.O. Bakare  B.Sc., M.Sc. (Lagos); FNIA Senior Research Fellow

H.I. Alege  B.Sc., M.Sc. (ABU); MNIA Adjunct Senior Research Fellow

Z.I. Adedo  B.Sc., M.Sc. (ABU); PGDE. Lecturer II

S.Y. Sulaiman  B.Sc., M.Sc. (ABU); MNIA Lecturer II

U.T.O. Moyo  B.Sc., M.Sc. (ABU); MNIA Lecturer II

Aisha T. Abubakar-Kamar  B. Tech., M. Tech. (FUTM) Assistant Lecturer

H. A Tanimu  B. Tech. (ATBU) Graduate Assistant

Bukola M. Alaya  B.Tech. (FUTM) Technologist II

DEPARTMENT OF ARCHITECTURE
**DEPARTMENT OF ESTATE MANAGEMENT**

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
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<tbody>
<tr>
<td>M.T.A. Ajayi</td>
<td>B. Tech., M. Tech, Ph.D. (FUTM); ANIVS; RSV</td>
<td>Adjunct Senior Lecturer &amp; Ag. Head</td>
</tr>
<tr>
<td>B.T. Aluko</td>
<td>B.Sc., M.Sc., Ph.D. (OAU); RSV</td>
<td>Adjunct Professor</td>
</tr>
<tr>
<td>G.O. Olayonwa</td>
<td>B.Sc., M.Tech. (FUTM); Ph.D. (Malaysia); ANIVS; RSV</td>
<td>Adjunct Senior Lecturer</td>
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<tr>
<td>T.A. Ibrahim</td>
<td>B.Sc., MBA (Ilorin); M.Sc. (OAU); ANIVS; RSV</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>N.A. Bello</td>
<td>B.Sc., M. Sc. (Ibadan); M.Sc. (OAU); ANIVS; RSV</td>
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<tr>
<td>A. S. Adeogun</td>
<td>B. Tech., M. Tech. (FUTM); ANIVS; RSV</td>
<td>Lecturer II</td>
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<tr>
<td>W. A. Durosinmi</td>
<td>B. Tech. (FUTM); ANIVS</td>
<td>Graduate Assistant</td>
</tr>
<tr>
<td>A. Na’Allah</td>
<td>HND</td>
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</tr>
<tr>
<td>K. F. Muyideen</td>
<td>HND</td>
<td>Technologist II</td>
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**DEPARTMENT OF QUANTITY SURVEYING**
P.O. Lawal  B.Sc. (ABU); M.Sc. (Loughborough); Ph.D. (Jos);  Reader  FNIQS; RQS
Ganiyu Amuda-  B.Sc. (ABU); M.Sc. (Salford); Ph.D. (Malaysia);  Senior Lecturer  Yusuf  FNIQS; RQS
M. A. Kasimu  B.Tech. (FUTM); M.Sc. (Jos); Ph.D. (Malaysia);  Adjunct Senior Lecturer  MNIQS, RQS
B. Suleiman  B.Sc., M.Sc. (Varna)  Lecturer I
K. Ibrahim  B.Tech. (FUTM); M.Sc. (ABU)  Assistant Lecturer
L. O. Olorunoje  B.Tech. (FUTM)  Graduate Assistant
Toyin Saka  HND  Technologist II

DEPARTMENT OF SURVEYING AND GEOFINORMATICS

A. O. Abdulyekeen  B.Sc., M.Sc. (Lagos); MNIS; RS  Lecturer II & Coordinator
A. Babalola.  B. Tech., M.Tech. (MAUTECH); PGDE;  Senior Lecturer  Ph.D. (Malaysia)
Dupe N. Olayinka.  B.Sc., M.Sc. (Lagos); Ph.D. (Lancaster);  Visiting Senior Lecturer  MNIS; RS
K. O. Odedare  HND; M.GIS; MURP (Ibadan); Ph.D. (FUTA); FNIS; MNITP; RS; RTP  Adjunct Senior Lecturer
Gbemisola Olatunde  HND; PDS; ANIS  Technologist II
A. O. Amoo  HND  Technologist II

DEPARTMENT OF URBAN AND REGIONAL PLANNING

M. J. Yusuf  B. Tech. (FUTM); M.Tech. (LAUTECH); MNITP; RTP  Lecturer II & Coordinator
N. B. Tanimowo  B. Ed., M. Sc., M.Ed., Ph. D, (Ibadan); MNITP; RTP  Professor
A.E. Toyobo  B.Sc., M.Sc.(ABU), Ph.D. (LAUTECH); MNITP; RTP  Visiting Senior Lecturer
A. I. Bako  HND; PGD; MURP (Ibadan); MBA (LAUTECH); Ph.D. (FUTA); MNITP; RTP  Lecturer I
Memuna O. Abdulraheem  B. Sc. (ABU); M. Sc., MBA, Ph. D. (Ilorin); MNITP  Lecturer II
W. M. Raheem  B.Sc. (Ilorin)  Graduate Assistant
Falilat T. Onundi  B.Sc. (Maiduguri)  Technologist II
H.O. Zubair  B.Tech.  Technologist II
# Course Description

**B.Sc. Architecture**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC 101</td>
<td><strong>Introductions to Architecture I</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>An introductory course to Architecture, stressing the role of the Architect in the building industry and the society. Architecture as art, science, a profession, and relationship with other professions. Aims of design, design process, design skills and tools. Drawing and the various graphic communication media. Reproduction equipment and materials. Significant buildings in Architecture and their Architects.</td>
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<td></td>
<td><strong>30h (T), 45h (P); C</strong></td>
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<tr>
<td>ARC 102</td>
<td><strong>Architectonics and Modeling</strong></td>
<td>3</td>
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<td><strong>30h (T), 45h (P); C</strong></td>
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<tr>
<td>ARC 103</td>
<td><strong>Freehand Sketching I</strong></td>
<td>2</td>
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<td></td>
<td>Sketching and architectural drawing from life. Developing graphic language by which an architect explains buildings and other objects to himself and others using dry media such as pencils and crayons.</td>
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<td><strong>90h (P); C</strong></td>
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<tr>
<td>ARC 104</td>
<td><strong>Freehand Sketching II</strong></td>
<td>2</td>
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<tr>
<td></td>
<td>Sketching and architectural drawing from life. A continuation of freehand sketching with greater emphasis on quick sketching techniques using wet media such as water and poster colours, inks.</td>
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<td><strong>90h (P); C</strong></td>
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<tr>
<td>ARC 105</td>
<td><strong>Architectural Graphics and Lettering I</strong></td>
<td>2</td>
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<tr>
<td></td>
<td>Mechanical drawing, descriptive geometry, perspective, shades and shadows including freehand drawing. Essential graphic materials and equipments, lines and line weight, symbols and conventional representations, lettering and projections.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>90h (P); C</strong></td>
<td></td>
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</tbody>
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ARC 106 Architectural Graphics and Lettering II  2 Credits
Presentation of architectural drawings. Emphasis will be laid on presentation and rendering techniques using different media. Advanced techniques in preparation, coding and rendering of architectural drawings. Modular coordination as a tool in architectural design studio work. Advanced techniques in projection of perspectives including 1-point interior, 2-point interior, aerial, 3-point exterior perspectives. Application of other projections (e.g. axonometric and isometric) in architectural studio work.
90h (P); C, PR: ARC 105

ARC 201 Architectural Design I  3 Credits
A studio course using abstract designs to develop creative thinking, analytical skills and aesthetic sensitivity in architectural design. Architectural forms, principles of proportion, rhythm, harmony, contrast, texture, mass, volUTME, etc. Colour, tectonics and modelling in Architecture. Anthropometric and activity space analysis. Design methodology, Measured drawings, Design Programme of simple building of student’s home in the village. Detailing of residential components such as bathroom, kitchen, bedroom.
135h (P); C

ARC 202 Architectural Design II  5 Credits
Physical, Morphology and attribute of space. Ordering of spaces, interior and furniture design. Architectural design process, site investigation and analysis, functional relationship. Final architectural design solution. Actual design of simple structure i.e. bus stand, entrance gates, kiosks, shops, chemist shop, artist shop, residential designs.
225h (P); C, PR: ARC 201

ARC 203 Building Components and Methods I  2 Credits
Basic building materials and their characteristics e.g. timber, stones, bricks, cement and sandcrete blocks, concrete and reinforced concrete, mortars and rendering. The use of the basic materials such as rock, organic materials, synthetic and hybrid materials in architecture.
30h (T); C

ARC 204 Building Components and Methods II  2 Credits
Building elements and components, their construction and functional requirements e.g. foundation, load bearing walls, opening in walls; doors, windows, floors, simple roofs and finishes.
30h (T); C, PR: ARC 203

ARC 205 History of Architecture I  2 Credits
History of Architecture highlighting factors (e.g philosophical, cultural, climatic, political, technological…) that gave rise to concepts, distinct forms, values, spatial content and other expressions, each illustrated with detailed individual examples. A
general survey of the pre-historic architecture and urban development in Africa-Nigeria, Egypt, Kenya, Tanzania, etc. Near East – Mesopotamia, Far East-Japan and China; Asia-India, Pakistan and Sri-Lanka.

30h (T); C

ARC 206 History of Architecture II 2 Credits
30h (T); C, PR: ARC 205

ARC 207 Building Materials I 2 Credits
Knowledge of the properties of basic building materials: Woods, Brick, Stone, Cement, Sand, water Iron. Understanding the proper usage of these materials. Learning the correct graphical representation of these materials.
30h (T); C

ARC 208 Building Materials II 2 Credits
Knowledge of the properties of process building materials: Glass, Steel, Aluminum, Sandcrete Blocks, Tiles [Floors, Walls and Ceilings]. PVC, paints. Understanding the proper application to the materials in construction. Learning the graphical representation and specifications of these materials.
30h (T); C, PR: ARC 207

ARC 209 Building Structure I 2 Credits
Definitions and conceptualization of basic principles of structural design. Introduction to mechanics and design of building structures. The objectives of structural design, their applications to architectural space. Concurrent coplanar forces; triangle of forces, parallel forces. Non-Concurrent coplanar forces. The link polygon, applications of link polygon. Direct stress and strain, elasticity, hook’s law and the modulus of elasticity. Behavior of steel in tension, limiting values of steel. Factor of safety, compound bars, temperature stresses.
30h (T); C

ARC 210 Building Structure II 2 Credits
30h (T); C, PR: ARC 209
ARC 211 Descriptive Geometry I  
Significance of lines, weight, line gravity, basic geometrical constructions. Basic principles in orthographic projections, first-angle and third-angle projections, points, lines (including skew lines) planes and geometrical solids in orthographic projections, auxiliary planes and transformation on designated planes and the application of this concept to true shapes, true dimensions etc. and other projections (i.e. isometric, oblique, axonometric). Lettering and basic dimensioning.
90h (P); C

ARC 212 Descriptive Geometry II  
Simple intersection of lines with planes, planes with solids, solids with solids, simple geometrical solids, construction of simple geometric forms, n-sided polygon in a given circle, n-sided polygon with a given side; construction of curves, circles, ellipse, parabola and hyperbola, involute to a square, circle, cycloid, and archi-median spiral, locus of a point, link mechanisms, intersections of more complicated geometric forms, developments of surface of solid, geometrical figures before and after intersection.
90h (P); C, PR: ARC 107

ARC 213 Theory of Creative Process in Architecture  
30h (T); C

ARC 214 Building Climatology I  
Studies in how climatic factors affect human comfort. Climatic decisions in the design process, identification and analysis of climatic problems for the purpose of (heat) and glare effect of solar radiation. Thermal characteristics of building materials and some elements of construction sun shading devices the climatological zones of Nigeria and their characteristics, study of traditional buildings in varying climatic zones and their problem solving potentials. Climate change and the greenhouse effect, environment and human health.
30h (T); C

ARC 216 Computer Aided Design  
Introduction to CAD: Theoretical background information on computing generally. Introduction to various computer design application packages. Fundamentals of Auto CAD. The application of these in generation of plans, elevations, sections, staircases etc. Plotting methodology.
15h (T), 45h (P); C
ARC 218  African Traditional Architecture  2 Credits
Definition and characteristics of architecture and the term traditional architecture. Different types of traditional architecture: folk architecture, vernacular architecture, primitive architecture. Modern architecture in vogue: monUTMEntal, spiritual, humane, utilitarian as it relates to traditional architecture. Traditional Architecture in Africa. External influences on indigenous architecture. Technical components of Nigerian Traditional Architecture. Major building materials used in traditional architecture, e.g. mud, stone, raffia, grass, corn stalks, bamboo, canes, oil palm frond, etc. Techniques of roof construction in traditional architecture. Distribution of styles in traditional architecture. Characteristics of city formations in selected urban areas of Africa. Design assignments/exercises to reinforce the knowledge already gained.
30h (T); C

ARC 301  Architectural Design III  4 Credits
Research, investigation and concept development as the basis for Architectural design. Logical evaluation of plan form in relation to physical, climatic, land site considerations. Form and their relationships to total environment and site. Actual design of simple civic buildings i.e Post office, Fire station, Police station, Prison, Town hall, Bank, Nursery school, etc. Emphasis on site planning and development. External space articulation with building forms. Projects to accentuate the organization of a group of related buildings on a site (cultural awareness as they affect architectural design to be highlighted). Design of a single storey structure with given programmes and site: Library, Gymnasium, Museum, Complex laboratory, Pharmaceutical factory, etc. Design of multi-storied structures: apartments, offices in urban environment with traffic problems with the observation of all required building regulations and bye-laws. Perspectives should be included. Seminar and term papers on the study of some of the important works of Nigerian architects should also be included.
180h (P); C, PR: ARC 202

ARC 303  Building Components and Methods III  2 Credits
Detailed study of building materials and their characteristics e.g. cast stone, composite products, asbestos cement products, asphalt and bituminous felts, glass, paints, steel, aluminium and other metals, plastics, materials for sound and thermal insulation, traditional building materials, etc. Choice of building materials in relation to functional, structural, economic, health and aesthetic considerations. Elements of Building Construction – Load bearing elements, partitions, stair cases, ramps, ladders, floors, ceilings, roofs, internal and external surface finishes and traditional construction methods.
30h (T); C, PR: ARC 204

ARC 305  Building Services I  2 Credits
Introduction to all basic building services. Air-conditioning, elevators, fire-fighting services. Cold and hot water supply; Sources of water and water distribution; Cold and hot water installation; calculations of standard consumption velocity, demand and plumbing fittings leading to a complete design, surface water drainage, sewage and waste disposal and sanitary systems. Assignments are given on the application of these services using simple projects consisting of properly scaled drawings and appropriate symbols.
ARC 307  Building Climatology II  2 Credits
Buildings, climates and comfort: Importance of designing with climate; principles of thermal design, elements of climate, collecting climatic data, and psychometric chart. Thermal comfort models/indices, conducting field study, means of thermal control and application.
30h (T); C, PR: ARC 214

ARC 309  Building Structures III  2 Credits
Bending moment and Shear forces; method of loading, determination of reaction of the supports; Calculation and diagram; Mathematical relationships between load Shearing force and bending moment; Bending and shearing stresses in beams; Slopes and deflections of beams: mathematical relationship between bending moment, slopes and deflection, determination of slopes and deflection by integral calculus methods, and area moment method. Fundamentals of moment – distribution method, applications of moment, distribution method of beams and support settlement.
30h (T); C, PR: ARC 210

ARC 311  Working drawing and Detailing  2 Credits
DocU TMEnal drawings for construction works. Concept of working drawings as graphical communication between the Architect and the contractor. Details as explanatory drawings of sections and elements. Variations in design arising from changing. Fully dimensioned drawings in appropriate scales, construction details of joint, stairs, structural elements, etc. and the incorporation of building services should be stressed. At the end of the course, complete sets of working drawings shall be produced from a given presentation drawing.
90h (P); C

ARC 313  Landscape Design  2 Credits
15h (T), 45h (P); C

ARC 315  Sociology of Housing  2 Credits
Concept of housing. Goals and objectives of housing. Housing bundle, basic attributes of housing. Housing needs – man’s need for shelter; Housing demand and supply. Layouts and different ways of formulating housing standards for developing countries; Socio-economic segregation in housing; Methods of financing housing; Core and self-help housing.

30h (T); E

ARC 317 Architectural Psychology & Perception 2 Credits
This course is designed to enable the student understand the meaning, causes of different perceptions, significance of perception in design and the complexities of human psychology in its various dimensions; The implications or effects of design decisions on the users, clients and the public at large; Identify various psychological factors that affect architectural design and accommodate the factors in the design process.

30h (T); E

ARC 300 Student Industrial Work Experience Scheme (SIWES) 18 Credits
Student Industrial Work Experience Scheme (SIWES) expose the student to architectural office practice in real environments. Acquisition of skill for competence in the execution of practical Architectural projects, safe handling of equipment and avoidance of hazards associated with them, and skill of observation, recording and documentation on construction sites.

810h (P); C

ARC 401 Architectural Design V 6 Credits
Design of domestic building with site restrictions, materials restrictions to be worked out as a practical problem, starting with sketches to working drawing and detailing (complete in pencil or tracing papers). A study in interior decoration of sizeable space like, entrance hall to a library, Restaurant. Sketch design of series of structure starting with small sizes to large. Presentation in finished form as presentation drawing. Each design will be subjected to jury criticism at every stage. Studies for the identification of the elements of architectural design to perceive and to develop sensitivity and awareness for valid interpretations. Architectural treatment of specific theme.

270h (P); C, PR: ARC 301

ARC 403 Building Components and Methods IV 2 Credits

30h (T); C, PR: ARC 303

ARC 404 Building Components and Methods V 2 Credits

30h (T); C, PR: ARC 403

ARC 405 Building Services II 2 Credits
Studying mechanical equipment, illumination and acoustics and the architectural and technical requirements for human comfort; Fundamentals of electric power generation, transmission and distribution; Types of electrical supplies in Nigeria; Design procedure and data requirements; Electrical installation and equipment, load determination systems; Domestic installations, services units and ring main; Non-domestic installation, voltage drops, ring and rising main distribution; Industrial installations, fitting switch, gear, fuses. Illumination standards, light distributions; Electrical devices in building design; Lighting appliances; lifts; Safety protection and energy conservation; Lightening arrestors.

30h (T); C, PR: ARC 211

ARC 406 Building Contracts and Arbitration 2 Credits
Introduction to the form of building contract and contract documents; Types in use in Nigeria, rights and duties of the parties; Status and responsibilities of the consultants; Bonds, dispute resolution, arbitration and awards; Arbitration and Conciliation Act CAP 19 of 1990. Types of building contracts: contract agreement and conditions. Role and responsibilities of the construction team; Commissioning; Contract procedures and processes including form of tender and invitation to tender; Job supervision, project commissioning and arbitration.

30h (T); C

ARC 407 Research Methods 2 Credits
This course introduces the student to the range of tools and techniques available for investigation and the conduct of scientific inquiry into issues relating to architecture with a view to evolving suitable solutions. The course deals with the fundamentals of research, synthesis of ideas and general research methods such as developing theories and hypotheses, methodologies, sampling, observation, etc. leading to a research essay that is necessary for the bachelor degree dissertation. This research is conducted in the form of seminars within the options offered by the department.

30h (T); C

ARC 408 Acoustics and Noise Control 2 Credits
Acoustics – Fundamental principles of sound: Sound propagation, sound and space geometry, sound transmission, insulation, absorption, reflection and modulation. Sound quality, noise control; Architectural acoustics; Environmental acoustics; Acoustic equipment
ARC 409  Building Structures IV  2 Credits
Introduction to structural systems and form system of loads. Design of statistically determinate structures. Trusses-stress and
design, methods of joints and sections. Analysis of statistically indeterminate structures. Discussion on strength of material: elastic
and plastic behaviour of common materials, ductile and brittle materials, material testing, tensile and compressive. Properties of
steel, concrete and reinforced concrete materials. Loads on structures, estimation of beams, slab and roof loads. Modular ratio
method of design (design according to CP 114). Singly reinforced concrete beams, flanged beams, doubly reinforced beams,
columns, slabs, shear reinforcement in beams. Development of the three moment equation and application; Development and
application of slope-deflection equation; Frame structures: calculation of bending moments and forces in frames, application of
moment distribution method of frames; Properties of the influence line. Influence lines for beams. Series of concentrated line
loads-use of moment chart. Computation of maximum moment, absolute maximum line shear, influence lines for trusses
30h (T); C, PR: ARC 309

ARC 410  Interior Design  2 Credits
Interior design as it relates to architecture, tools of interior design, analysis of space in various functional environments and
planning to maximize use including subdivisions, furniture, colour, lighting and finishes. Integrated services both hidden and
exposed, cleaning routines, reduction of stress in the workplace.
15h (T), 45h (P); C

ARC 412  Building Structures V  2 Credits
Design of reinforced concrete structure according to BS 1800; Singly reinforced concrete beams, flange beams, shear reinforcement
in beams, curtailment of reinforcement. Torsion in reinforcement; Design of reinforced concrete columns, one way slabs, and
stairscases, two-way spanning, slabs, simple reinforced cement concrete foundation. The student is given a structure to develop the
calculations and basic structural drawings for concurrent architectural design projects.
15h (T); C, PR: ARC 411

ARC 414  Building Economics  2 Credits
Some general terms in building economics. Cost planning as a design tool, factors governing building costs, price analysis, bill of
quantities, cost criteria, cost research and estimating cost plans.
30h (T); C

ARC 416  Natural and Artificial lighting  2 Credits
Lighting requirements: distribution and space geometry, intensity, sources and effects. Natural lighting: basic principle of solar
radiation, sun path, day light factor, direct and indirect sun lighting glare control. Artificial lighting: luminaries, types of
illumination sources, types of lighting fittings, energy consumption, purpose lighting (safety, aesthetics, task). Design techniques
and application of artificial and natural lighting. Heat: sources, thermal radiations, thermal comfort and load. Thermal control
devices, heaters, air conditioners, fenestration, ventilation and ventilators.

30h (T); R

ARC 499  Project  6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department,
culminating in the submission of a project.
270h (P); C

SUMMARY

100 Level
Compulsory Courses:  ARC 101 (3), 102 (3), 103 (2), 104 (2), 105 (2), 106 (2)  = 14 Credits
Required Courses:  GNS 111 (2), 112 (2), CSC 111 (2), 112(2), ESM 114 (2), QTS 103 (1),
   MAT 111 (3), 114 (3), PHY 191 (1), 192 (1), 125 (3), 142 (2),
   GPE 121 (3), 122 (3), URP 101 (2)  = 32 Credits
Total = 46 Credits

200 Level
Compulsory Courses:  ARC 201 (3), 202 (5), 203 (2), 204 (2), 205 (2), 206 (2), 207(2), 208(2)  ARC 209 (2), 210 (2), 211(2), 212 (2), 213 (2), 214 (2), 216 (2), 218 (2)
   = 36 Credits
Required Courses:  GNS 211 (2), 212 (2), URP 203 (2), SVG 201 (2)  = 8 Credits
Total  = 44 Credits

Direct Entry Students:  GNS 111 (2), 112 (2)  = 4 Credits

300 Level
Compulsory Courses:  ARC 301 (4), 303 (2), 305 (2), 307 (2), 309 (2), FES 300 (24)
   = 36 Credits
Required Courses:  GNS 311(2), QTS 307(2), URP 307 (2), GSE 301 (3)  = 9 Credits
Elective Courses:  
At least 2 Credits from the following:  
ARC 311 (2), 313 (2), ESM 301 (2)  
= 2 Credits  
Total = 47 Credits

Compulsory Courses:  
ARC 401 (6), 403 (2), 404 (2), 405 (2), 406 (2), 407 (2), 408 (2),  
410 (2) 411 (2), 412 (2), 414 (2), 499 (6)  
= 34 Credits

Required Courses:  
QTS 405 (2), URP 413 (2)  
= 4 Credits

Elective Courses:  
At least 6 Credits from the following:  
ARC 415 (2), 416 (2), 417 (2), CVE 412 (2), QTS 413 (2), URP 411 (2)  
= 6 Credits  
Total = 44 Credits

Graduation Requirements
UTME = 181 Credits
DE = 139 Credits
DEPARTMENT OF ESTATE MANAGEMENT

Course Description

B.Sc. Estate Management

ESM 101  Introduction to Estate Management I  3 Credits
30h (T); C

ESM 102  Introduction to Estate Management II  3 Credits
30h (T); C

ESM 103  Introduction to Real Estate Marketing  2 Credits
30h (T); C

ESM 104  Introduction to Facilities Management  2 Credits
15h (T), 45h (P); R

ESM 201  Introduction to valuation 1  3 Credits
30h (T), 45h (P); C
ESM 202  Introduction to valuation II                      3 Credits
Definitions of rental value and outgoings. Principal types of landed property, factor influencing supply, demand for landed property, principles of investment concepts of discounting and compounding. Construction and use of valuation tables and relationships. Valuation methods.
30h (T), 45h (P); C

ESM 203  Land Economics I                              2 Credits
30h (T); C

ESM 204  Land Economics II                             2 Credits
30h (T); C

ESM 205  Law of Contract and Tort I                   2 Credits
Nature, offer and acceptances. Consideration, intention to create legal relations, form and content, initiating elements, incapacity, mistake, misrepresentation, duress and undue influence. Statutory invalidity and illegality, sale of any interest in land, contract of guarantee, agent and principal.
30h (T); C

ESM 206  Law of Contract and Tort II                  2 Credits
Formation of contract, void and voidable, unenforceable contracts, termination of contracts, remedies of breach. Torts affecting land, negligence, nuisance, trespass and liability for animals. Rule in Ryland and Fletcher, breach of statutory duty and employers liability.
30h (T); C

ESM 207  Principles of Accounting I                    2 Credits

30h (T); C

ESM 208 Principles of Accounting II 2 Credits
Elements of cost and cost behavior. Accounting for labour, material, plant and overheads. Stock valuation, job order, costing and contract account. Budgeting and standard costing.
30h (T); C

ESM 209 Principles of Economics 1 2 Credits
Introduction, scope and methodology. Micro economics, price theory and function of market system. Demand and supply, elasticity, consumer behavior, theory and costs of production. Revenue plan of the firm, market structures, pure competition, monopoly and oligopoly. Theory of distribution, wages rent, interest and profit. Indifference curve approach /
30h (T); C

ESM 210 Principles of Economics II 2 Credits
30h (T); C

ESM 211 Agricultural Properties and Record I 2 Credits
30h (T); R

ESM 212 Agricultural Properties and Record II 2 Credits
Aspect of land use necessary for rural valuation taken into cognizance of general principle of agricultural production. Process of crop growth, soil as a significant medium of crop production, animal or livestock husbandry.
30h (T); R

ESM 213 Basic Statistics for Real Estate I 2 Credits
30h (T); R
ESM 214 Basic Statistics for Real Estate II  2 Credits
30h (T); R

ESM 216 Land Information System  2 Credits
Definition and component of land information, land information as a component of management information system. Land information system: storage, retrieval and structure. Land information distribution and packaging. Land information system in the built environment.
30h (T); E

ESM 301 Principles of Valuation I  3 Credits
Investment market: stocks and shares, gilt edged securities and property. Investment, direct comparison, residual, cost and profit approaches to valuation. Concept of risk, yield and valuation.
30h (T), 45h (P); C

ESM 302 Principles of Valuation II  3 Credits
Analysis of Transactions; Application to valuation of freehold and leasehold interests; Problems of leasehold valuations; variable profit rent; Gross and Net of Tax Valuations; Premiums; Liabilities and Expenditure; Extensions and Renewal of Leases; Virtual Rent.
30h (T), 45h (P); C

ESM 303 Land Law 1  2 Credits
30h (T); C

ESM 304 Land Law II  2 Credits
30h (T); C

ESM 305 Property Rating and Taxation I  2 Credits
Nature and incidence of property rate and income tax, allowances and deduction. Functions of local government and rating administration. Rating assessment: basic principles, exemptions, techniques of valuation, ratable increditaments, canons and principles of taxation. Calculations of capital gains tax, withholding tax, estate duty and capital transfer tax.

15h (T), 45h (P); C

ESM 306 Property Rating and Taxation II 2 Credits
Organization and administration of rating, preparation of valuation list, tone of the list, rating tribunal, objections, proposals and appeals.
15h (T), 45h (P); C

ESM 307 Arbitration and Awards I 2 Credits
30h (T); R

ESM 308 Arbitration and Awards II 2 Credits
30h (T); R

ESM 309 Estate Office and Administration 2 Credits
30h (T); R

EMS 310 Macro Economics Theory 2 Credits
30h (T); R

ESM 311 Housing and Public Policy 2 Credits
Concept of housing: types, demand and infrastructure. Application of existing housing policy, finance, management and investment. Low income housing. Theoretical issues on housing policy. Nigeria’s housing policy and development. Housing and community facilities. Housing standards

30h (T); R

ESM 312  Environmental Impact Assessment 2 Credits
30h (T); R

ESM 313  Building Economics I 2 Credits
30h (T); E

ESM 314  Building Economics II 2 Credits
30h (T); C

ESM 316  Risk and Insurance in Real Estate 2 Credits
Philosophy, rationale and use of insurance in the property industry, identifying and classifying various types of risks in order to assess the extent of risk exposure in various stations especially property investment and development. Using appropriate risk management technique to assess degree of risk exposure under different situations, understanding insurance principles, types and techniques applicable and developing skills through practical case studies.
30h (T); R

ESM 318  Project Planning and Control 2 Credits
Sequence, organization and control of projects and the interrealationship between various professional groups involved in the development of capital project: meaning of management and its role in construction; the nature of capital projects – client, consultants and contractors. Management tools / techniques (CPM, Bar charts, LOB). Tender analysis; Building management procedures from inception to completion, coordination, control and supervision of simple and multiple contracts site layout. Report for management: financial capital projects, working capital flow of fund. Legal and implication of building contract. Regional organization of typical professional offices.
ESM 400  Student Industrial Work Experience Scheme 15 Credits
A student spends the whole semester in an approved office. He or she is expected to record his/her experience in a log book to be signed by the supervisor. At the end of the industrial training, he/she is expected to document the experience gained in a report and which will be assessed by the Department.

675h (P); R

ESM 401  Applied Valuation 2 Credits

15h (T), 45h (P); C

ESM 403  Real Estate and Development Finance 2 Credits
Meaning of estate development, objectives of development, types of developers, risk factors in development process, development finance and funding. Sources of Finance for Development in Nigeria: short terms, medium term, long term, lease and lease-back financing arrangements. Partnership arrangements, loan syndication, unitization and securitization.

30h (T); C

ESM 405  Comparative Land Policies 2 Credits
Nature of customary tenure in the economic and social structure of selected countries I West Africa. Social and legal theories of property. Proprietary land use analysis. Purpose of national land reform in selected countries. Implementation of land policies and specialized institutions of government and other related bodies.

30h (T); C

ESM 407  Principles of Facility Management 2 Credits
History of facility management, concept of facility management, comparison of facility management and property management, scope of facility management, rationale for facility management, advantages/benefits of facility management, information technology and facility management, identification of facilities and services in facility management, professionals in the practice of facility management and field work.

30h (T); C

ESM 409  Research Methodology 2 Credits
Nature, essence and types of scientific inquiry, research concepts, problem identification and formulation, hypothesis and tests of hypothesis, variables definitions, data sources and methods of data collection. Questionnaire and survey design, interviews guide/schedule, data collation and analysis, tools of analysis, data interpretation, discussion and research document.

30h (T); C

ESM 411 Urban Economics I 2 Credits
Nature and problems of urban areas, transportation, housing, technology and city growth, spatial structure, pollution and environmental quality in Nigeria. Urban development policies and programmes in Nigeria. Theories of economic development. Rationale for rent control and measures in Nigeria.
30h (T); R

ESM 413 Building Maintenance 2 Credits
Decay of building, agencies involved, types of maintenance, alterations, conversion, extension, improvement in building, dimensional consideration, design defects, remedies, buildings surveying. Maintenance of all types of buildings mechanical/electrical services. Maintenance cycles for different types of buildings, standards expected of buildings and deviations spots items. Planning maintenance, resources required programming, execution and appraisal policy guidelines.
30h (T); C

ESM 415 Geographic Information System 2 Credits
30h (T); E

ESM 501 Advanced Valuation I 3 Credits
Valuation of specialized properties: cinemas/theatres, petrol filling station, hotels, asset valuation, valuations for insurance, mortgage and compensation purposes. Valuation of way leaves, mining rights and royalties, valuer as an expert witness.
15h (T), 90h (P); C

ESM 502 Advanced Valuation II 3 Credits
Advanced valuation techniques: discounted cash flow (equated yield, real value, models) nature of investment decisions, investment appraisal techniques, payback, return on investment, net present value, internal rate of return, sensitivity analysis, simulation and regression techniques in valuation.
30h (T), 45h (P); C

ESM 503 Computer Application to Real Estate Practice 2 Credits
Classification of computers. Components of microcomputer. Types of software; use of packaged application software of relevance in real estate. How to write and use customized application softwares.

30h (T); C

ESM 504 Advanced Housing Studies 2 Credits
Application of basic knowledge in housing. Housing needs, demand and supply. Concept of housing: provision, design, finance, construction and management. Housing in the concept of urban renewal. Sociology of Housing.

30h (T); C

ESM 505 Applied Property Management I 2 Credits
Development and re-development process; the social, economic technological aspects of property management; estate life cycle, obsolescence and management problems; legislations parliament to the relationship between landlord and tenant; management of public and private estates; element of facility management.

30h (T); C

ESM 506 Applied Property Management II 2 Credits
Principles of building maintenance, defects in buildings, rehabilitation, alteration, refurbishment and improvements. Rehabilitation, alteration, refurbishment and improvements. Design, maintenance, life cycle costing and appraisal techniques. Building management, janitorial services, staff organization, inventories, maintenance management, types of maintenance policies and strategies. Management information system, maintenance and self help schemes in public housing management and execution of maintenance work.

30h (T); C

ESM 507 Feasibility and Valuation Appraisal I 2 Credits

15h (T), 45h (P); C

ESM 508 Feasibility and Valuation Appraisal II 2 Credits
15h (T), 45h (P); C

ESM 511  Professional Practice and Code of Conduct  2 Credits
Professional practice of an estate surveyor and valuer and its relation to clients and other bodies, rules of professional practice and code of conduct. Nigerian Institution of Estate Surveyor and Valuers, Estate Surveyors and Valuers Registration Board of Nigeria.
30h (T); C

ESM 512  Professional Practice and Code of Conduct  2 Credits
30h (T); C

ESM 513  Land Use and Resources Management I  2 Credits
30h (T); R

ESM 514  Land Use and Resources Management II  2 Credits
30h (T); R

ESM 515  Plant and Machinery Valuation  2 Credits
30h (T); R
ESM 516  Construction Management  2 Credits
30h (T); C

ESM 517  Advanced Project Management  2 Credits
30h (T); E

ESM 518  Principles of Urban Finance  2 Credits
30h (T); E

ESM 519  Public Infrastructure and Services  2 Credits
Definition of social infrastructure. Identification and explanation of main utilities and services. Deal with the nervous system of the city: water supply power supply, solid waste disposal, drainage, sewage, sewerage and telecommunication. Factors in the planning and design: cost, management and maintenance. General standards and evaluation of alternatives.
30h (T); E

ESM 599  Project  6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department, culminating in the submission of a project.
SUMMARY

100 Level

Compulsory Courses: ESM101 (3), 102 (3), 103 (2), 104 (2) = 10 Credits
Required Courses: ARC103 (2), 104 (2), 105 (2), 106 (2), URP101 (2), 102 (2), CSC111 (2),
GNS111 (2), 112 (2), GPE121 (3), 122 (3), MAT111 (3), 114 (3)
= 32 Credits
Total = 42 Credits

200 Level

Compulsory Courses: ESM 201 (3), 202 (3), 203 (2), 204 (2), 205 (2), 206 (2), 207 (2), 208 (2),
= 20 Credits
Required Courses: ESM 210 (2), 211 (2), 212 (2), 213 (2), 214 (2), ARC203 (2), 204 (2),
(2), 202 (2), GNS 211 (2), 212 (2)
= 22 Credits
Elective Courses: ESM216 (2)
= 2 Credits
Total = 44 Credits

Direct Entry Students: GNS 111(2), 112(2)
= 4 Credits
300 Level
Compulsory Courses: ESM 301 (3), 302 (3), 303 (2), 304 (2), 305 (2), 306 (2), 307 (2), 308 (2) 
= 18 Credits
Required Courses: ESM 309 (2), 310 (2), 311 (2), 312 (2), 316 (2), 318 (2), ARC 307 (2), GNS 311 (2), GSE 301 (3), 
= 19 Credits
Electives Courses: ESM 313 (2), 314 (2), ARC 305(2), URP 212 (2) = 8 Credits
Total = 45 Credits
Direct Entry Students: GNS 111(2), 112(2), 211 (2), 212 (2) = 8 Credits

400 Level
Compulsory Courses: ESM 401 (3), 403 (3), 405 (3), 407 (2), 400 (15) = 26 Credits
Required Courses: ESM 409 (2), 411 (2), 413(2), ARC 407 (2) = 8 Credits
Electives Courses: ESM 415 (2) = 2 Credits
Total = 36 Credits

500 Level
Compulsory Courses: ESM 501 (3), 502 (3), 503 (2), 504 (2), 505 (2), 506 (2), 507(3), 508 (2), 511 (2), 512 (2), 599 (6) = 29 Credits
Required Courses: ESM 513 (2), 514 (2), 515 (2) = 6 Credits
Electives Courses: ESM 516 (2), 517 (2), 518 (2), 519 (2) = 8 Credits
Total = 43 Credits

Graduation Requirement
UTME = 210 Credit Units
DE 200 Level = 172 Credit Units
DE 300 Level = 132 Credit Units
DEPARTMENT OF QUANTITY SURVEYING
Course Description

B. Sc. Quantity Surveying

QTS 102 Introduction to Quantity Surveying 3 Credits
45h (T); C

QTS 104 Introduction to Construction Technology 2 Credits
General introduction to basic building construction operation and techniques. Traditional building materials; timber, stones, brick and cement blocks, concrete and reinforced concrete, mortar and rendering. Element of building; foundation, floor, walls, roofs. 
Introduction to civil engineering components
15h (T), 45h (P); C
QTS 201  **Principle of Measurement and Description**  3 Credits
Measurements of building work related to simple building. Site preparation. Work below ground level on level sites. Superstructure work; block work (internal and external wall) and associated concrete works. Flat and pitched roofs of timber, concrete. Roof coverings of lightweight or flexible materials. Finishes. External Works.
45h (T); C

QTS 202  **Construction Measurement I**  3 Credits
45h (T); C

QTS 203  **Building Construction and Materials I**  2 Credits
15h (T), 45h (P); C

QTS 204  **Building Construction and Materials II**  2 Credits
Roof structure, functional requirement pitched and flat roof in timber and concrete. Roof covering materials (bitUTMEn, asphalt, light weight roof coverings such as corrugated metal sections). Methods of fixing flat and pitched roofs. Roof: lights, glazing and drainage. External and internal doors and windows. Simple and advanced doors and windows. Industrial sliding doors and windows, sliding-folding doors and windows. Roller shutter doors and revolving doors. Furniture and fittings.
15h (T), 45h (P); C

QTS 205  **Principle of Economics I**  2 Credits
Outline of economic theory and activities. Output, prices and their effect on construction work. Price and market mechanism. Construction industry and its role in the National economy. Sources of Finance for construction works.
30h (T); R

QTS 206  **Principles of Economics II**  2 Credits
30h (T); R
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTS 207</td>
<td>Building Structures I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Introduction to basic principle of mechanisms and design of building structures, including concurrent and non-concurrent coplanar forces, movement of forces and properties of structural sections and kinematics of particles in various co-ordinate system will also be considered.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); R</td>
<td></td>
</tr>
<tr>
<td>QTS 208</td>
<td>Principles of Management</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Management: functions, planning, forecasting, organizing, motivating, and controlling. Management process as outlined by Fayol and others. Span of control, delegation of authority and accountability in organization. Communication within the construction industry</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); R</td>
<td></td>
</tr>
<tr>
<td>QTS 209</td>
<td>Building Science</td>
<td>2</td>
</tr>
<tr>
<td>QTS 210</td>
<td>Building Structures I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Equilibrium of rigid bodies, analysis of simple trusses, concept of stress and other strength characteristics, axially loaded bars, composite bars and other simple stress cases bending moment, shear forces and axial force diagrams, tension. Advanced treatment of the Kinematics of rigid bodies and engineering systems. Expression for the distribution of sharing stress in beams. Design of columns and beams.</td>
<td></td>
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<tr>
<td></td>
<td>30h (T); R</td>
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</tr>
<tr>
<td>QTS 212</td>
<td>Workshop Practice</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>45h (P); C</td>
<td></td>
</tr>
<tr>
<td>QTS 301</td>
<td>Construction Measurement II</td>
<td>3</td>
</tr>
</tbody>
</table>
Measurement of works involved in the construction of unframed single building of complex nature in the following areas: site preparation, substructure work on sloping site and reinforced concrete frames. Reinforced concrete stairs, ramps and associated balustrades. Internal and external finishes, painting and decoration

45h (T); C

QTS 303 Building Construction and Materials III 2 Credits
Stair and ramps made from different materials. Finishes: fittings and decoration (floor, walls and ceiling). Construction materials: lime and plasters, cement (types, product, testing), aggregates, bricks, mortars and timber (types, properties, defects, preservation and product). Ferrous and non-ferrous metals. Steel technology (production and fabrication)
15h (T), 45h (P); C

QTS 305 Tendering and Estimating I 2 Credits
30h (T); C

QTS 307 Building Economics I 2 Credits
30h (T); R

QTS 309 Construction Management I 2 Credits
Nature, purpose and definition of management. Setting objectives, planning and control. Nature of construction industry. Organization and control of design work. Functions and activities of design professionals and integration of their separate skills. sequence by which a client’s brief is translated into drawings and specifications. Role of contractor in design and supervision of construction works. Responsibilities and duties of persons involved in design and execution. Form and method of communications, reports; monitoring progress and expenditure during execution. Scheduling, sequences and allocation. Planning techniques: Bar chart, CPM, PERT.
30h (T); R

QTS 311 Commercial Law 2 Credits

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTS 302</td>
<td>Construction Measurement III</td>
<td>3</td>
<td>Structural steel work, including trusses, framed and unframed structures comprising steel work, trusses and casings. Composite floors, timber screen fitments in metal frames, complex reinforced concrete stair, steel stairs and fire escapes.</td>
</tr>
</tbody>
</table>
QTS 312 Application of Operation Research to Quantity Surveying 2 Credits
30h (T); R

QTS 314 Building Maintenance I 2 Credits
Maintenance technology, including agencies causing decay and changes in appearance of building materials. Structural survey of dwellings and schedule of dilapidations. Alternations, conversions, extensions and improvement of buildings. 15h (T), 45h (P); R

QTS 316 Law of Contract 2 Credits
30h (T); R

QTS 318 Principles of Accounting 2 Credits
Nature of business transactions and transactors; definition of accounting, scope and function of financial accounting. Types of business organization. accounting equation, theory of double entry book-keeping, partnership accounts, interests on capital, interest on drawings and partners salaries. Dissolution of partnership
30h (T); E

QTS 400 Student’s Industrial Work Experience Scheme (SIWES) 15 Credits
Student Industrial Work Experience Scheme (SIWES) expose students to the acquisition of skill for competence in the execution of practical Quantity Surveying projects, safe handling of equipment and avoidance of hazards associated with them, and skill of observation, recording and documentation on construction sites. 675h (P); C

QTS 401 Construction Measurement IV 3 Credits
Preparation of Bill of Quantities from dimensions; including an understanding of abstracting methods and the application of computer for data processing and production of documentation. Purpose and uses of trade bills: elemental bill, operational bills
45h (T); C

**QTS 403**  
**Advanced Construction Technology V**  
2 Credits  
15h (T), 45h (P); C

**QTS 405**  
**Tendering and Estimating III**  
2 Credits  
Analysis and synthesis of rates in the following areas: Plumbing installation, sanitary appliances, fitting, pipe work and associated builders’ works. Electrical and mechanical services. Pricing of items in the preliminary section of bill of quantities. Pro-rata rates. Estimating for civil engineering works.  
30h (T); C

**QTS 407**  
**Heavy Engineering Construction**  
2 Credits  
15h (T), 45h (P); R

**QTS 409**  
**Research Methods**  
2 Credits  
30h (T); R

**QTS 411**  
**Specification Writing**  
2 Credits  
This course is designed to give student a practical approach in specifying building
materials and components. The course contents include purpose and form of
specification, principles standard method of measurements

QTS 413  Building Maintenance II  2 Credits
Maintenance standards. Statutory requirements. Planning maintenance. Work and
cost control of maintenance operations. Organization of maintenance departments.

QTS 402  Student Industrial Work Experience Scheme  15 Credits
Undertake accepted skill training programme. To expose students to work methods and techniques in handling equipment and
machinery. SIWES posting. 675h (P); C

QTS 501  Advanced Construction Measurement I  3 Credits
Principles of measurement of complex roofs: shell, space and timber conical roofs. Plumbing installations, rainwater, sanitary, cold
water and Fire-fighting installations. Heated water installations and fuel gas installations. Metal work supports in drains. Manholes/
inspection chambers, septic tanks and cesspits, soak away pits, sewage systems and treatment plants, drainage pipe work and
associated builders work. Heating and compressed air installations. Mechanical movement system-lifts, hoists escalators and
conveyors.
45h (T); C

QTS 502  Advanced Construction Measurement II  3 Credits
Using realistic examples that will enable the student to rapidly integrate in a professional office or contractor’s office. Complex
concrete framed buildings, services, finishes and preliminaries.
45h (T); C

QTS 503  Heavy Engineering Measurement I  2 Credits
Introduction to measurement of Civil Engineering Works as a follow-up to measurement of building works. Study of the CESMM
in these areas. Concept of mensuration in civil works such as site investigation, geo-technical processes, demolition and site
clearance, earthwork and excavation. Roads and pavement, bridges simple tunneling, railway track and air field. Method related
charges, pricing of civil engineering works. Highlighting differences between building and civil works.
30h (T); C

QTS 504  Heavy Engineering Measurement II  2 Credits
Measurement of more complex structure such as; Airports, Roads, Jetties, Dams and Bridges.
30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTS 505</td>
<td>Cost Control I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>QTS 506</td>
<td>Cost Control II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>QTS 507</td>
<td>Professional Practice and Procedure I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>QTS 508</td>
<td>Professional Practice and Procedure II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>QTS 509</td>
<td>Project Management</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Project procurement; definition and methods. Distinction between project management and construction management. Introduction to project management consultancy. Process of project management services. Project management in construction. Functions and responsibilities of a project manager. Qualities of a project manager. Leadership styles. Advantages of project management as an</td>
<td></td>
</tr>
</tbody>
</table>
independent discipline. Education and prospects of project management in Nigeria. Quantity surveying duties at various stages of a project, inception, feasibility, pre-construction, construction phase and completion.

QTS 511  Marketing for Quantity Surveyors  2 Credits
30h (T); R

QTS 513  Computer Application to Quantity Surveying  2 Credits
30h (T); R

QTS 515  Integrated Quantity Surveying Studio (Consultancy)  1 Credit
45h (P); E

QTS 517  Integrated Quantity Surveying Studio (Contracting)  1 Credit
Pricing of tenders, scheduling of materials, labour, plants, cash flow and programming of works. Application of relevant software packages.
15h (T); E

QTS 599  Project  6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department, culminating in the submission of a project.
270h (P); C

SUMMARY
<table>
<thead>
<tr>
<th>Level</th>
<th>Compulsory Courses</th>
<th>Required Courses</th>
<th>Elective Courses</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>100 Level</strong></td>
<td>QTS 102 (3), 104 (2)</td>
<td>ARC 103 (2), 104 (2), 105 (2), 106 (2), URP 101 (2), URP 103 (2), CHM 101 (3), CSC 111 (2), 112 (2), ESM114 (2), MAT 111 (3), 114 (3), PHY 125 (3), 142 (3), 191 (1), 192 (1), GNS 111(2), 112 (2)</td>
<td>2 Units of Electives to be taken from the following: QTS 311 (2), 318 (2), URP 305 (2), 306 (2), CVE 355 (2), BUS 302</td>
<td><strong>44 Credits</strong></td>
</tr>
<tr>
<td><strong>200 Level</strong></td>
<td>QTS 201 (3), 202 (3), 203 (2), 204 (2)</td>
<td>QTS 205 (2), 206 (2), 207 (2), 208, (2), QTS 209 (2), 210 (2), ARC 201 (2), ESM 201 (2), 202 (2), SVG 201(2), 202 (2),</td>
<td>2 Units of Electives to be taken from the following: QTS 311 (2), 318 (2), URP 305 (2), 306 (2), CVE 355 (2), BUS 302</td>
<td><strong>41 Credits</strong></td>
</tr>
<tr>
<td><strong>300 Level</strong></td>
<td>QTS 301 (3), 302 (3), 303 (2), 304 (2), 305 (2), 306 (2)</td>
<td>QTS 307 (2), 308 (2), 309 (2), 310 (2) 312 (2), 314 (2) 316 (2), ARC 307 (2), 308 (2), GSE 301 (3), GNS 311 (2)</td>
<td>2 Units of Electives to be taken from the following: QTS 311 (2), 318 (2), URP 305 (2), 306 (2), CVE 355 (2), BUS 302</td>
<td><strong>41 Credits</strong></td>
</tr>
<tr>
<td><strong>400 Level</strong></td>
<td>QTS 401 (3), 402 (15), 403 (2), 405 (2)</td>
<td>QTS 407 (2), 409 (2), 411 (2), 413 (2), ARC 407 (2), GSE 401 (2)</td>
<td>2 Units of Electives to be taken from the following:</td>
<td><strong>22 Credits</strong></td>
</tr>
<tr>
<td><strong>Direct Entry Students</strong></td>
<td>GNS 111 (2) &amp; 112 (2)</td>
<td>GNS 111 (2), 112 (2), 211 (2), 212 (2)</td>
<td></td>
<td><strong>4 Credits</strong></td>
</tr>
</tbody>
</table>
QTS 411 (2), CVE 405 (2), BUS 433 (2) = 2 Credits
Total = 36 Credits

500 Level


Required Courses: QTS 509 (2), 511 (2), 512 (2), 513 (2) = 8 Credits

Elective Courses: 2 Units of Electives to be taken from the following:
QTS 514 (1), 515 (1), 516 (1), 517 (1), = 2 Credits
Total = 38 Credits

Graduation Requirements
UTME = 200 Credits
DE 200 Level = 160 Credits
DE 300 Level = 119 Credits

DEPARTMENT OF SURVEYING AND GEOINFORMATICS

Course Description

B. Sc. Surveying and Geoinformatics

SVG 101 History of Surveying and Geoinformatics. 2 Credits
30h (T); C

SVG 102 Cartography 2 Credits
30h (T); C
SVG 201  **Basic Surveying I**  2 Credits

15h (T), 45h (P); C

SVG 202  **Basic Surveying II**  2 Credits
Location and setting out of works: roads, bridges, railway, tunnels, pipelines, building. Setting out of simple, compound, reverse and volUMEs, sectioning. Longitudinal and Cross profile. Calculation of volUMEs from contours, spot heights and sections. Curvature correction in earthwork measurements.

15h (T), 45h (P); C

SVG 203  **Photogrammetry I**  3 Credits

15h (T), 90h (P); C

SVG 204  **Photogrammetry II**  2 Credits

15h (T), 45h (P); C

SVG 205  **Basic Survey Computations**  2 Credits

15h (T), 45h (P); C
SVG 206  Computer Application in Surveying I.  
History of computers. Classification of computers. Computer configuration. Functions and components of the Central Processing Unit (CPU). Types of CPU. Operating System (DOS, UNIX, VMS), file editing and management, database management systems, spreadsheet, and application. 
15h (T), 45h (P); R

SVG 207  Engineering Surveying I  
15h (T), 90h (P); C

SVG 208  Engineering Surveying II  
15h (T); 45h (P); C

SVG 210  Remote Sensing I  
30h (T); C

SVG 212  Surveying Laboratory and Maintenance.  
At this level students should be able to carry out the following practical exercises. Perimeter survey of reasonable extents. Leveling operations using levels and Tacheometer. Produce complete topographic map of reasonable hectare. Set out simple curves and buildings. Observe and compute azimuth using different methods of solar observations. Use of pocket and mirror stereoscopes, parallax bar – for heighting and being able to interpret aerial photographs of air-maps. During this course, the student should learn practical ways of handling, and minor maintenance skills of surveying laboratory and field equipment.
SVG 214  **Introduction to Field Astronomy**  
Basic field astronomy, the universe and the solar system. Motion of the planets, Kepler’s laws of planetary motion. Motions of the earth and relationship of the earth and the sun, the stars constellations, magnitudes and distances from the earth. Motion of the stars, introduction to celestial coordinate systems and fundamental definitions of spherical parameters. Reference points and circles (definitions of astronomical terms, e.g. latitude, altitude, declination, azimuth, hour angle, prime vertical, vertical circle celestial horizon, celestial equator, meridian. Concepts of time transfer and conversions. Time keeping and time signals altitude method. Use of surveyor star almanac for interpolation of quantities.

15h (T), 45h (P); C

SVG 301  **Cadastral Surveying I**  

45h (T); C

SVG 302  **Cadastral Surveying II**  

45h (T); C

SVG 303  **Spherical and Field Astronomy**  

15h (T), 45h (P); C

SVG 304  **Geodetic Astronomy**  

2 Credits

**SVG 305** Remote Sensing II  
2 Credits  

15h (T), 45h (P); C, PR: SVG 309, SVG 203

**SVG 306** Geodetic Surveying  
3 Credits  

45h (T); C

**SVG 307** Adjustment Computation I  
2 Credits  

30h (T); C, PR: MTH 114, ABE 263

**SVG 308** Computer Application in Surveying II  
2 Credits  

15h (T), 45h (P); C
SVG 309  **Hydrographic Surveying I**  3 Credits  
Introduction to Hydrography. Coastal procession waves, tides, tidal streams, currents including long shore, river and tidal density, chart and sounding datum. Determination of a sea level and mean sea level, tide poles and tide gauges. Two dimensional positioning at sea, bathymetry, positioning accuracies. Measurement systems, optical and electronic methods, sources of errors. Introduction to satellite navigation and positioning.  
45h (T); C

SVG 310  **Digital Mapping I**  2 Credits  
Elementary computer graphics; Digital representation of graphic objects: point, line and polygonal elements. Digital representation of cartographic symbols and name placement. Elementary data structure software management.  
30h (T); C

SVG 311  **Electronic Surveying**  2 Credits  
30h (T); C

SVG 312  **Principle of Geographic Information System II**  3 Credits  
45h (T); R

SVG 313  **Principle of Geographic Information System I**  3 Credits  
45h (T); R, PR: MTH 111, SVG 206

SVG 315  **Survey Camping.**  2 Credits  
The camping exercise is for a period of two weeks during which students are expected to carry out the following: Observations,
computations and adjustment of traversing, triangulation and leveling schemes. Observations and computation of survey lines by astronomical means using attitude and hour angle methods of sun azimuth, or stars. Learn how to prepare star programme for geodetic observations.

**SVG 400**  
**Industrial Training**  
6 Months Industrial Training Programme during the Rain Semester of 400 levels.  
**540h (P); C**

**SVG 401**  
**Map Projections**  
3 Credits  
**45h (T); C**

**SVG 403**  
**Photogrammetry and Remote Sensing I**  
3 Credits  
**15h (T), 90h (P); C, PR: SVG 210**

**SVG 405**  
**Geodesy I.**  
2 Credits  
Fundamental of Geodesy: definitions, aims, scope, and developments. Techniques (Classical and modern). Coordinate system: terrestrial and celestial coordinate systems, satellite coordinate system, inertial coordinates, Curvilinear and Cartesian coordinate systems. 3D- Geodesy, point positioning (astro and satellite), relative positioning, absolute geodetic positioning.  
**30h (T); C**
SVG 407  Digital Mapping II.  2 Credits

Raster and vector graphics, Hardware and software graphic systems. Coordinate transformation for orthogonal and perspective projections. Data structures for computer graphics; 2D graphics; 3D graphics, map analysis.

15h (T), 45h (P); C, PR: SVG 310

SVG 409  Mining and Special Surveys  3 Credits


30h (T), 45h (P); C

SVG 411  Hydrographic Surveying II  3 Credits


15h (T), 90h (P); C, PR: SVG 309

SVG 413  Spatial Information Systems.  2 Credits

30h (T); E
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVG 415</td>
<td>Potential Theory and Spherical Harmonics</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Potential theory. Theory of potential – gravitational and attractions. Rings, annuli, infinite plates; and solid bodies. Laplace equations, Harmonic functions, spherical harmonics (Sphere and spheriodal).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); R</td>
<td></td>
</tr>
<tr>
<td>SVG 501</td>
<td>Adjustment Computation II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C, PR: SVG 307, SVG 308</td>
<td></td>
</tr>
<tr>
<td>SVG 502</td>
<td>Adjustment Computation III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C, PR: SVG 307, SVG 308</td>
<td></td>
</tr>
<tr>
<td>SVG 503</td>
<td>Special Studies in Digital Remote Sensing.</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>15h (T), 45h (P); R, PR: SVG 403</td>
<td></td>
</tr>
<tr>
<td>SVG 504</td>
<td>Professional Practice and Ethics.</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>SVG 505</td>
<td>Survey Laws and Regulations.</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
</tbody>
</table>
SVG 506  **Physical Geodesy.**  
3 Credits
30h (T), 45h (P); R, PR: SVG 405, SVG 417

SVG 507  **Digital Photogrammetry & Remote Sensing II.**  
3 Credits
45h (T); R, PR: SVG 403, SVG 407

SVG 508  **Marine Surveying**  
2 Credits
Coastal engineering, siltation and erosion, coastal zone management, improvement and rectification of channels and fairways, channel marking. Surveys relating to the demarcation of harbor limits. Laws relating to shipping and harbors. Position fixing, large scale surveys. Special surveys for dredging Offshore surveys. Effects of wind and wave on sea bed. Oceanographic equipment. Tidal current measurement on the continental shelf.
30h (T); R, PR: SVG 309

SVG 509  **Geometric Geodesy**  
3 Credits
45h (T); R, PR: SVG 405

SVG 510  **Special Studies in (Analytical and Digital) Photogrammetry**  
3 Credits
SVG 511  Coastal Mapping and Management  2 Credits
30h (T); R

SVG 512  Satellite Geodesy  3 Credits
Review of the basic concepts. Positioning methods: dynamic and geometric observation equations. Error models. TRANSIT and NAVSTAR GPS systems. Integration of satellite data with other geodetic network data. Other application.
45h (T); PR: SVG 405

SVG 513  Mathematical Geodesy  2 Credits
Mathematical techniques used in Geodesy: least squares prediction, approximations, vector analysis, matrix operations, special functions: spherical harmonics, Fourier and integral transforms.
30h (T); R, PR: SVG 405

SVG 514  Close Range Photogrammetry  3 Credits
Close-range cameras and other acquisition systems, such as electron microscope and X-ray equipment, calibration of close-range acquisition systems. Examples of applications in biometrics, engineering, architecture and traffic accident.
30h (T), 45h (P); C. PR: SVG 203, SVG 403

SVG 515  GIS Tools and Application  3 Credits
45h (T); C, PR: SVG 308, SVG 403

SVG 516  Applied Geophysics  2 Credits
Field observations, evaluation and analyses of geophysical data as applicable in seismology and gravimetry. Electrical methods. IP resistivity and magnetism.
30h (T); R, PR: GEM 306
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department, culminating in the submission of a project.

270h (P); C
## SUMMARY

### 100 Level

<table>
<thead>
<tr>
<th>Compulsory Courses:</th>
<th>SVG 101 (2), 102 (2)</th>
<th>= 4 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses:</td>
<td>GNS 111(2), 112(2), ARC 103(2), URP 101(2), ESM 114(2), MAT 111 (3), 114 (3), PHY 125 (2), 142 (2), 191(1), 192 (1), CSC 111 (2), 112(2), GPE 121 (3), 122 (3)</td>
<td>= 32 Credits</td>
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<td>Total = 36 Credits</td>
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### 200 Levels

<table>
<thead>
<tr>
<th>Compulsory Courses:</th>
<th>SVG 201 (2), 202 (2), 203(3), 204(2), 205(2), 206(2), 207(3), 208(2), 210(2), 212(2), 214(2)</th>
<th>= 24 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses:</td>
<td>GNS 211(2), 212(2), URP 203(2), PHY 214(2), 225(2), ABE 263(3)</td>
<td>= 13 Credits</td>
</tr>
<tr>
<td>Elective Courses:</td>
<td>HKE 208 (1)</td>
<td>= 1 Credit</td>
</tr>
<tr>
<td>Direct Entry Students:</td>
<td>GNS 111(2), 112(2)</td>
<td>= 4 Credits</td>
</tr>
<tr>
<td>Total = 38 Credits</td>
<td></td>
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</tr>
</tbody>
</table>

### 300 Level

<table>
<thead>
<tr>
<th>Compulsory Courses:</th>
<th>SVG 301 (3), 302 (3), 303(2), 304(2), 305(2), 306(3), 307(2), 308(2), 309(3), 310(2), 311(2), 312(2), 313(2), 315(2)</th>
<th>= 30 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses:</td>
<td>GNS 311(2), GSE 301 (3), URP 312(2), PHY 314(3), 324(3),GEM 306(2)</td>
<td>= 15 Credits</td>
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<tr>
<td>Direct Entry Students:</td>
<td>GNS 111(2), 112(2), 211 (2), 212 (2)</td>
<td>= 8 Credits</td>
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<td>Total = 45 Credits</td>
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</table>

### 400 Level

<table>
<thead>
<tr>
<th>Compulsory Courses:</th>
<th>SVG 401 (3), 403 (3), 405(3), 407(2), 411(3), 413(2)</th>
<th>= 16 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses:</td>
<td>FES 400 (8)</td>
<td></td>
</tr>
</tbody>
</table>
Elective Courses: 5 Credits are to be offered from the following courses:
SVG 409 (3), 415 (2), 417 (2), CVE 434 (2), 474 (2), ELE 454(3), STA 456(2) = 5 Credits
Total = 21 Credits

500 Level
Compulsory Courses: SVG 501 (3), 502 (3), 504(3), 505(2), 599 (6) = 17 Credits
Elective Courses: 21 Credits are to be offered from the following courses:
SVG 503(3), 506(2), 507(2), 508(3), 509(3), 510(3), 511(2), 512(3), 513(2), 516(2), CVE 531 (2), 536(2) = 21 Credits
Total = 38 Credits

Graduation Requirements
UTME = 178 Credits
DE 200 Level = 146 Credits
DE 300 Level = 112 Credits

DEPARTMENT OF URBAN AND REGIONAL PLANNING

Course Description

B.Sc. Urban Regional Planning

URP 101 Basic Elements of Planning 2 Credits Definition, Objectives, Categories and Characteristics of Planning, Environmental Planning, Urban Planning, Planning and other Professions. Evolution and History of Environmental Planning. Urban Growth and Urban Forms, Dimension of Urban Environmental Problem Theories of Planning, Emerging Trends, Thoughts, Paradigms, Issues and Technologies in Urban and Regional Planning and Public Participation in Planning. Historical evaluation of settlements, History of planning as statutory undertaken in developed and developing countries. Case studies of towns in Nigeria both historic and contemporary ones, Theory and models of urban and rural land use, the rationale for town planning. Morphological structure of Nigerian cities, Planning models and the planning process.
30h (T); C

URP 102 History of Town Planning 2 Credits
Introduction to the historical and legislative contexts of town planning from ancient to modern times. The origins, growth and decline of settlements as a reflection of changing social, economic and physical forces. A survey of human settlements through different age groups. The effects of philanthropic movements in town planning and contemporary thoughts in physical planning. Relationship of physical planning to other allied disciplines.

30h (T); C

**URP 103**  
**Technique of Drawing and Design (Free hand Sketching)**  
2 Credits  

15h (T); 45h (P); C

**URP 104**  
**Urban Development Planning**  
2 Credits  
Growth factors and forms of cities, dimensioning urban land use problems, space allocation standards, Methods of study and projection of land use, demographic and economic data.

30h (T); C

**URP 105**  
**Principles of Economics**  
2 Credits  
Introduction to some economic concepts and techniques relevant to planning policy. Elementary theories of demand, cost and prices and the working of market mechanisms. The behaviour of consumers. Theory of population and structure of market. Problems of technological choice, social costs.

30h (T); C

**URP 106**  
**Sociology and Planning**  
2 Credits  
Meaning and relationship of sociology to town planning. Concepts of ethnic groups, social institutions and social structure. Social stratification and its theories. The effect of physical environment on sociology of a community, urbanism and social problems, crime, delinquency etc.

30h (T); C

**URP 107**  
**Nature of Environmental Sciences**  
2 Credits  
Explains the philosophy of environmental sciences and how environmental sciences deal with planning, design, construction and management of the man-made and natural environment. Environmental sciences disciplines/ disciplines that are concerned with ordering of the surface of the earth with a view to making it functionally appropriate, aesthetically pleasing and culturally relevant while at the same time optionally utilizing available resources.

30h (T); C
URP 108  **Fundamental of Geography**  2 Credits
30h (T); C

URP 110  **Population and Urbanization Studies**  2 Credits
30h (T); C

URP 112  **Introduction to Geomorphology**  2 Credits
Meaning and scope of geomorphology, rock types, origins and characteristics. Nature and origins of second wider relief forms of the continents. Structural landforms.
30h (T); C

URP 201  **Site Selection and Planning**  2 Credits
Definition and scope of site selection and site planning. Principles and factors of site selection. Site survey and analysis, earthworks, drainage and utility layout; environmental factors, climatological considerations, orientation of buildings, daylight and sunlight. Site design brief. The site plan: scale, circulation, building lines, plot coverage and drainage. Site and service schemes. Emergency access and garaging.
30h (T); C

URP 202  **Regional Development Planning**  2 Credits
30h (T); C
URP 203  Environmental Science and Ecology  2 Credits
Relationship of planning with other Environmental disciplines, The nature of planning as an activity, Planning Process, The concept of ecology as applied to the natural environment, Climatic conditions, The use and abuse of natural resources e.g. water, air and land, Extractive industries, Environmental planning problems and solutions e.g. pollution, soil erosion, desertification, etc. Conservation of natural resources. Communication skills in Planning.
30h (T); C

URP 204  Principle of Remote Sensing in Planning  2 Credits
The operational meaning/definition of Remote Sensing. Sensing Systems – radar, passive systems and active systems. Orbiting earth satellite. The spectral nature of urban land use, the spatial nature of urban land use. Land use and land cover classification systems. Urban land use application – population estimation, housing quality data, monitoring energy conservation, utilization and production in urban areas, urban and suburban information for emergency situations.
15h (T), 45h (P); R

URP 205  Planning Studio I  3 Credits
135h (P); C

URP 206  Planning Studio II  3 Credits
Studies aimed at a general understanding of the urban environment - the components, structure and functions of selections. Graphic representation of the urban environment. Introduction to detailed study of the residential community (neighbourhood unit).
135h (P); C

URP 207  Architectural Design  3 Credits
A studio course using abstract designs to develop creative thinking, analytical skills and aesthetic sensitivity in architectural design. Architectural forms, principles of proportion, rhythm, harmony, contrast, texture, mass, volume, etc. Colour, tectonics and modelling in Architecture. Anthropometric and activity space analysis. Design methodology, measured drawings, Design Programme of simple building of student’s home in the village. Detailing of idential components such as bathroom, kitchen, and bedroom.
135h (P); C

URP 208  Quantitative Techniques and Research in Planning  3 Credits

**URP 210 Natural Resources Management and Environmental Planning**  2 Credits  
The concept ecology as applied to natural environment, climate conditions, the use and abuse of natural resources, environmental planning problems and solution. Conservation of natural resources, the process of land use change and management. Public control over private use of resources. The evaluation of contemporary environmentalism, the green movement, recycling of resources, dangers of and problems of toxic waste disposal and other contemporary ecological issues.  30h (T); C

**URP 211 Land Economics I**  2 Credits  
Meaning of land in economic theory and analysis. Land resources in Nigeria. Supply of and demand for land. The concept of rent, Land tenure system. Land and property market. Economics of landed property taxes. Legal control on land use. Population growth and land use. Economic basis of urbanization. Urban structure and land use pattern.  30h (T); C

**URP 212 Land Economics II**  2 Credits  
The concept of land use value. Institutional and other constraints on land uses. The operation of the price mechanism. The economic process of real estate development. Financing and developments. Nature and effect of taxation. The economic, social and legal factors governing development. The development of real estate, property market and the price mechanisms. Investment analysis, risk and uncertainty involved in development. Roles of planning in development processes.  30h (T); C

**URP 301 Traffic and Transportation Planning I**  2 Credits  
The aims, models, roles and objectives of transportation planning. Relationship between transportation planning and land use planning. Methods of collection, analysis, interpretation and projection of traffic data. Traffic problems, control measures and management. Problems of organization and regulation of public transport.  30h (T); C

**URP 302 Traffic and Transportation Planning II**  2 Credits

30h (T); C. PR; URP 301

**URP 303 Housing Process**


30h (T), 45h (P); C

**URP 304 Industrial Development Planning**


30h (T); C

**URP 305 Planning Studio III**

Studies of a major landuse problem at the urban scale, e.g. traffic congestion, street parking, street trading, drainage, waste disposal, shanty formation etc. and design of solution. Technical report writing.

15h (T); 90h (P); C

**URP 306 Planning Studio IV**


15h (T), 90h (P); C

**URP 307 Rural Development Planning**


30h (T); C

**URP 308 LANDSCAPE DESIGN**

3 Credits
Concepts in landscape design, Basic elements of landscape, Climate and landscape design, Landscape design goals, processes and analytical methods, Landscape construction materials and methods, Planting design and Management of landscape.  

**URP 309 Computer Programming and System analysis for planners**  
2 Credits  
Introduction to computer programming, linear programming, models of planning problems, simple methods, sensitivity analysis, transportation problems, quadratic programming, elementary path problems, resource allocation, general short path problems and optimization problems. Introduction to Geographical Information Systems technology and computer aided mapping/design.  

30h (T); C

**URP 310 Land use and Resource Management**  
2 Credits  

30h (T); C

**URP 311 Introduction to Geographic Information System (GIS)**  
2 Credits  
Concept and components of Geographic Information System. Relevance of GIS in Urban and Regional Planning. Principles of GIS. Spatial data modeling and data representation. Sources, acquisition and management of planning data. Capturing, extraction, storage and analysis of spatial data.  

15h (T), 45h (P); C

**URP 312 Planning Laws and Procedure**  
2 Credits  
Concepts of Law and administrative procedures, Introduction to general law, Land law, conveyance, Origin and sources of Nigeria Law, Law of tort and contract, Legal controls on statutory bodies, Appeals and enforcements and Case studies of application of planning laws to existing situation.  

30h (T); C

**URP 313 Introduction to Operation Research**  
2 Credits  
Basic linear programming techniques- concept and meaning, basic assumptions, problem formulation in linear programming, methods of solution (graphical methods and simplex methods), interpretation of results and the concept of duality and shadow cost. Network analysis- concept and meaning, types, terms and methods (critical path method and programme evaluation review technique). Transportation model- nature of transportation models, special linear programming problem, concept of balanced and unbalanced transportation problems, methods of providing basic initial solutions to transportation problems: Northwest corner rule, least cost and Vogel approximation methods, test for the optimality of the solution and solving assignment problem.  

30h (T); E
URP 314  Project Planning and Evaluation  2 Credits
30h (T); C

URP 315  Design Economics and Cost Research  2 Credits
30h (T); E

URP 316  Highway Engineering  2 Credits
Road design and construction methods, Road Geometry, Highway construction materials, Road Alignment principles and aesthetic considerations, Road Furniture and Maintenance of highway infrastructure.
30h (T); E

URP 317  Introduction to Psychology  2 Credits
Personal beliefs, the nature of human behaviour in various societies, Some Renown Philosophers and Theories of personality and abnormal behavior.
30h (T); E

URP 318  Introduction to Philosophy  2 Credits
An introductory course to concepts in philosophy.
30h (T); E

URP 320  Cartography  1 Credit
45h (P); E

URP 322  Photogrammetry  1 Credit

45h (P); E

**FES 400**  
**SIWES**  
Industrial Training in various establishments related to the area of specializations.  
6 Credits  
270h (P); R

**URP 401**  
**Urban Renewal**  
Urban renewal as a technique for improving living conditions, Cost and benefits of urban renewal schemes, Economic and social consideration for urban renewal, Management of urban renewal scheme and Case studies of renewal scheme.  
2 Credits  
30h (T); R

**URP 403**  
**Landscape Planning**  
3 Credits  
15h (T), 90h (P); C

**URP 405**  
**Planning Studio**  
To introduce the concept of comprehensive urban planning (master plan). Methods of field survey, data analysis and projection models. Emphasis will also be focused on the planning of central areas of the urban area. Theories of the city centre and its sphere of influence. Determination of functions and problems of city centre such as traffic, landuse, density control etc.  
3 Credits  
135h (P); C

**URP 407**  
**Quantitative Techniques in Planning II**  
Review of descriptive and inferential statistics: hypothesis testing. Analysis of variance, correlation and regression; partial discriminate analysis and canonical correlation. Application of techniques to planning research. Use of computer package programme especially SPSS.  
2 Credits  
30h (T); C

**URP 409**  
**Urban Design**  
Environmental perception and appraisal. Visual elements in an urban complex: form, scale, colour and texture. Emotional characteristics in relation to visual element. Design resources; natural features, building materials, economic, social, public interest and physical characteristics. Theories of urban structures. Analysis and classification of urban land uses. Principles of planning
and design of specific land use areas: residential, commercial, industrial, public and semi-public etc. Space allocation standards for major land use components by densities, plot sizes and area.

15h (T), 45h (P); C

**URP 411**  
**Law of Contract and Tort**  
2 Credits  
The nature of contract and contractual obligations, the common rules and status governing the formation of a contract- offer, acceptance, consideration and intention to create legal relations are examined together with contents of the contracts as evidenced by the express terms, implied terms, excluding and limiting terms and the doctrine of fundamental breach. Contractual capacity, introduction and historical background of tort, assault battery, false imprisonment, trespass, trespass to goods, conversation, trespass to land, tort of negligence-duty of care, breach of duty, damages-causation and remoteness proof of negligence nervous shock, liability for economic loss, employer’s liability to workmen, defenses and liability of occupiers.

30h (T); R

**URP 413**  
**Urban Economics and Management**  
2 Credits  

30h (T); E

**URP 415**  
**Geographic Information System II (GIS)**  
2 Credits  

90h (P); E. PR: URP 311

**URP 501**  
**Environmental Impact assessment**  
3 Credits  
Different methods of assessing the impact of proposed development in the existing physical, social, economic and technological frameworks.

45h (T); C

**URP 502**  
**Advanced Planning Theory**  
3 Credits  
The nature of planning theory. Theory of planning and theory in Planning. Normative, descriptive, and prescriptive theories of planning. Evolution of town planning philosophy. The planning process, management and decision-making in planning process; the dynamics of political, social, cultural and economic variables. The planners’ role and functions. Citizen participation and evaluation in the planning process.
Development Control and Settlement of Disputes 2 Credits

Planning Studio VIII 3 Credits
Macro theories of design. The formulation of minimum and desirable space standards. Ecological approaches to urban and regional planning design. Visual elements in an urban complex. Design resources, composition, space articulation, aesthetic qualities. Preparation of three-dimensional models.

Planning Studio VII 3 Credits
Studio project on planning for new towns. This project is expected to demonstrate the planning principle that has been learnt and its application in the planning and design of a new town. Technical report writing should accompany the design.

Professional Practice II 2 Credits
The NITP as compared with other professional bodies, Code of professional practice, Procedures for membership of NITP, The NITP charter, Planning and politics, Planners and the elected representative and Planners and the general public.

Professional Practice I 2 Credits
Legal basis of planning, The ethics of preparing land use master plans, Principles of writing planning brief and Pitfalls in planning communication, technical reporting and graphic techniques.

Advanced Landscape Design 3 Credits
Values, forces and institutions shaping urban forms. Principles in urban design. Organization of space. Elements within organized space. Theoretical concepts and approaches to urban form and design. Design exercises on major landscape projects. Landscape management techniques.

15h (T), 90h (P); E
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>URP 509</td>
<td>Public Utilities and Services</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Planning consideration and design standards for public utilities and services such as drainage, water supply, electricity, telephone, sewage etc. Method of site investigation for planning of public utilities. Management principles for public utilities and services.</td>
<td></td>
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<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
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<tr>
<td>URP 510</td>
<td>Project Dissertation</td>
<td>6</td>
</tr>
<tr>
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<td>Each student is expected to choose a topic to be treated as a special area of study in planning profession. The student carries out an independent study on it under the guidance of a member of academic staff.</td>
<td></td>
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<tr>
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<td>270h (P); C</td>
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<tr>
<td>URP 511</td>
<td>Planning Seminars</td>
<td>2</td>
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<tr>
<td></td>
<td>Each student is expected to prepare and present a seminar on his/her specific area of interest within the context of Nigerian Urban and Regional Planning problem. This is aimed at the development of academic and professional skills in the preparation and development of seminar topic.</td>
<td></td>
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<tr>
<td></td>
<td>90h (P); C</td>
<td></td>
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<tr>
<td>URP 512</td>
<td>Recreational Planning</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Definition of recreation, Assessment of supply and demand for recreational resources, Recreation planning standard, Recreation carrying capacity and Management of recreation resources</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
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<tr>
<td>URP 513</td>
<td>Advanced Regional Planning</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
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</tr>
<tr>
<td>URP 514</td>
<td>Advanced Housing Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Aims and objectives of housing policies and programmes. Housing as a sector of investment and integral part of national plans in Nigeria Housing.</td>
<td></td>
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<tr>
<td></td>
<td>45h (T); E</td>
<td></td>
</tr>
<tr>
<td>URP 515</td>
<td>Tourism and Development</td>
<td>2</td>
</tr>
</tbody>
</table>
Nature of Tourism and development, Essentials of Tourism planning, Tourism resources of Nigeria, Consideration for design, construction and development of tourist resorts, Tourism organization, Travel Agent and developers, Impacts of Tourism and Principles of Tourism management.

30h (T); E

**URP 517  Environmental Planning and Protection Laws**  
2 Credits  

30h (T); E
SUMMARY

100 LEVEL

Compulsory Courses: URP 101 (2), URP 102 (2), URP 103 (2), URP 104 (2), URP 105 (2), URP 107 (2), URP 108 (2), URP 110 (2), URP 112 (2)
Total = 20 Credits

Required Courses: GNS 111 (2), GNS 112 (2), MAT 111 (3), MAT 114 (3), PHY 125 (3), PHY 191 (1), PHY 192 (1), CSC 111 (2), CSC 112 (2), QTS 102 (2), STA 131 (2)
Total = 23 Credits

Elective Courses: NIL
Total = 43 Credits

200 LEVEL

Compulsory Courses: URP 201 (2), URP 202 (2), URP 203 (2), URP 204 (2), URP 205 (3), URP 206 (3), URP 207 (3), URP 208 (3), URP 210 (2), URP 211 (2), URP 212 (2)
Total = 26 Credits

Required Courses: GNS 211 (2), GNS 212 (2), SVG 201 (2), QTS 203 (3), QTS 204 (2)
Total = 11 Credits

Direct Entry Students: GNS 111(2) and GNS 112 (2)

Elective Courses: NIL
Total = 37 Credits
Total = 41 Credits

300 LEVEL

Compulsory Courses: URP 301 (2), URP 302 (2), URP 303 (3), URP 304 (2), URP 305 (3), URP 307 (2), URP 308 (3), URP 309 (2), URP 310 (2), URP 311(2), URP 312 (2), URP 314 (3)
Total = 31 Credits

Required Courses: ESM 201(3); GSE 301 (2); GNS 311 (3)
Total = 8 Credits

Direct Entry Students: GNS 111(2); 112 (2); 211 (2); 212 (2)

Elective Courses: 7 Credits from the following:
400 LEVEL

Compulsory Courses:
- URP 401 (2), URP 403 (3), URP 405 (3), URP 407 (2), URP 409 (2), URP 411 (2)
Total = 14 Credits

Required Courses:
- URP 400 (6)
Total = 6 Credits

Elective Courses:
- 2 Credits from the following:
  - URP 413 (2); 415 (2)
Total = 2 Credits
Total = 22 Credits

500 LEVEL

Compulsory Courses:
- URP 501(3), URP 502 (3), URP 503 (2), URP 504 (3), URP 505(3),
  URP 506 (2), URP 507 (2), URP 509 (2), URP 510 (6), URP 511 (2),
  URP 512 (2), URP 513 (2)
Total = 32 Credits

Elective Courses:
- 5 Credits from the following:
  - URP 508 (3), 515 (2), 514 (3), 517 (2)
Total = 5 Credits
Total =37 Credits

Graduation Requirements
1. Major Environmental Sciences Courses (ARC, ESM, QTS, SVG, URP) 148 Credits
2. Courses from other Department outside the Faculty (CSC 111, 112, PHY 191,192,125, MAT 111, 114, STA 131,) 17 Credits
3. General Studies Courses (GNS 111, 112, 211, 212, 311, GSE 301) 13 Credits
4. Students’ Industrial Works Experience Scheme (SIWES) 6 Credits
5. Total Credits Required 184 Credits
To be eligible for an award of B.Sc. in Urban and Regional Planning (5-year Programme), students must pass a minimum total of 184 Credits. For a 4-year Programme, a student must pass a total of 146 Credits. For a 3-year Programme, a student must pass a total of 113 Credits. In summary:

<p>| | |</p>
<table>
<thead>
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<tr>
<td>UTME -</td>
<td>184 Credits</td>
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<tr>
<td>DE (4 years)</td>
<td>146 Credits</td>
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<tr>
<td>DE (3 years)</td>
<td>113 Credits</td>
</tr>
</tbody>
</table>
FACULTY OF LAW

DEAN’S OFFICE

I. A. Yusuf  LL.B. (Jos); BL; LL.M. (OAU); Ph.D. (IIUM, Malaysia), Senior Lecturer & Ag. Dean
I. Imam LL.B. (UDUS); BL; LL.M. (OAU); Senior Lecturer & SubDean Ph.D.(Ilorin)
S. O. Olajugba B.A.; MPA (Ilorin) Faculty Officer

DEPARTMENT OF BUSINESS LAW

K. I. Adam  LL.B. (BUK);BL; LL.M. (OAU), Senior Lecturer & Ph.D. (IIUM, Malaysia) Ag. Head
M. M. Akanbi LL.B. (OAU), BL, LL.M (Lagos), Professor Ph.D. (KCL, London).
O. Y. Abdulhamid LL.B.; BL.;LL.M., M.Phil.(OAU), Senior Lecturer Ph.D. (IIUM, Malaysia)
S. M. Olokooba B.A., LL.B. (Ilorin); BL; LL.M (OAU); Ph.D. (Ilorin) Senior Lecturer
Hafsat I. Sa’adu  LL.B. (UDUS); BL; LL.M. (OAU); Ph.D. (Ilorin)  Lecturer I

D. A Arioososu  LL.B. (Ilorin); BL.; LL.M. (OAU); Ph.D. (Ilorin)  Lecturer I

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**DEPARTMENT OF ISLAMIC LAW**

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A. O. Omotosho  LL.B. (Medina); Ph.D. (Edinburgh)  Professor

A. A. Alaro  LL.B., M.A. (Medina); LL.M., Ph.D. (Sudan)  Senior Lecturer

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  Ph.D. (IIUM, Malaysia)

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DEPARTMENT OF JURISPRUDENCE AND INTERNATIONAL LAW

Nimatallah.M. Abdulraheem LL.B. (BUK); BL.; LL.M. (OAU)  Senior Lecturer & Ag. Head

W. O. Egbewole  LL.B. (OAU); BL.; LL.M. (OAU);
  Ph.D. (Ilorin)  Professor

A. A. Oba  LL.B. (OAU); BL.; LL.M. (OAU);  Senior Lecturer
Ph.D. (IIUM, Malaysia)

M. A. Etudaiye LL.B. (OAU); BL.; LL.M. (OAU); Ph.D. (Ilorin) Senior Lecturer

J. O. Olatoke LL.B. (OAU) BL.; LL.M., Senior Lecturer

M. Phil., Ph.D. (OAU)

L. A. Ayinla LL.B. (UDUS); BL.; LL.M. (OAU); Senior Lecturer

Ph.D. (IIUM, Malaysia)

Elizabeth F. Owolabi LL.B. (Jos); BL; LL.M. (OAU); Lecturer I

Ph.D. (Ilorin)

A. Onuora-Oguno LL.B. (Ilorin); BL; LL.M. (Pretoria) Lecturer I

Oluwabunmi. L. Niyi-Gafar LL.B. (Ilorin); BL; LL.M. (Ibadan) Lecturer II

Barakat A. Raji LL.B. (Ilorin); B; LL.M. (OAU) Lecturer II

Oluwatosin B. Igbayiloye LL.B., BL; LL.M. (Ilorin) Lecturer II

G. A. Murtala LL.B. (Ilorin); BL; LL.M. (OAU) Lecturer II

DEPARTMENT OF PRIVATE AND PROPERTY LAW

M. K. Adebayo LL.B. (Maiduguri); BL; LL.M., Ph.D. (Jos) Senior Lecturer & Ag. Head

H. O. Ijaiya B.A. (Ed) (Ilorin); LL.B. (Jos); Senior Lecturer

BL; LL.M., M.Phil., Ph.D (OAU)

Ganiat M. Olatokun LL.B. (Maiduguri); BL; LL.M. (OAU); Lecturer I
Ph.D. (Utara)

Fatimah.F. Abdulrazaq   LL.B. (Maiduguri); BL; LL.M. (OAU)   Lecturer I
B.L. Ijaiya   LL.B. (UDUS); BL; LL.M. (OAU)   Lecturer I
O.S. Afolabi   LL.B. (OAU); BL; LL.M., Ph.D (Zaria)   Lecturer I
A.O. Abdulkadir   LL.B. (Ilorin); BL; LL.M. (OAU); Ph.D. (IIUM, Malaysia)   Lecturer I
M.K. Imam-Tamim   LL.B. (Ilorin); BL; LL.M. (OAU)   Lecturer II
Hameenat.B. Ojibara   LL.B. (Ilorin); BL; LL.M. (Portsmouth)   Lecturer II
I.F. Yusuph   LL.B. (Ilorin); BL; LL.M. (OAU)   Lecturer II
S.T. Abubarkar   LL.B.(BUK); BL; LLM(OAU)   Lecturer II
Oluwabusayo.T. Joseph   LL.B. (Ilorin); BL   Asst. Lecturer

DEPARTMENT OF PUBLIC LAW

A.T. Shehu   LL.B. (UDUS); BL; LL.M. (OAU); Ph.D. (Jos)   Senior Lecturer & Ag. Head
I. A. Yusuf   LL.B. (Jos); BL; LL.M. (OAU);   Senior Lecturer
Ph.D. (IIUM, Malaysia)

I. Imam  LL.B. (UDUS); BL; LL.M. (OAU);   Senior Lecturer
Ph.D. (Ilorin)

N.A.O. Ijaiya  LL.B. (BUK); BL; LL.M. (OAU); Ph.D. (Ilorin)   Lecturer I

A. O. Sambo  LL.B. (Ilorin); BL; LL.M. (Ilorin);   Lecturer I

Ph.D. (IIUM, Malaysia)

R. J. Adebimpe  LL.B. (Ilorin); BL; LL.M. (Ilorin)   Lecturer I

Mariam.A. AbdulRaheem-Mustapha  LL.B. (UDUS); BL; LL.M. (OAU)   Lecturer I

Ph.D. (IIUM, Malaysia)

B. A. Abdulkadir  LL.B. (Ilorin); BL; LL.M. (Ilorin);   Lecturer I

L.A. AbdulRauf  LL.B. (ABU); BL.; LL.M. (Ilorin)   Lecturer II

Anthonia.O. Ugowe  LL.B. (Ilorin); B.L.; LL.M. (Manchester)   Lecturer II

Efeoghene. Etejere  LL.B. (Ilorin); B.L.; LL.M. (Wales)   Lecturer II
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<th>Course Code</th>
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<tr>
<td>BUL 101</td>
<td>Introduction to Business Law I</td>
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<td></td>
<td>Sources of Nigerian business law. Characteristics and features of the law of contract and commercial law.</td>
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<tr>
<td>BUL 102</td>
<td>Introduction to Business Law II</td>
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<tr>
<td></td>
<td>Characteristics and features of company law and the law of partnership. Introduction to commercial arbitration.</td>
<td></td>
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<tr>
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<td>30h (T); R</td>
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<tr>
<td>CSC 111</td>
<td>Introduction to the Use of Computer I</td>
<td>2</td>
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<tr>
<td></td>
<td>Basic components of computer. Advantages and disadvantages of computer.</td>
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<tr>
<td>BUL 104</td>
<td>Introduction to the Use of Computer II</td>
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<td>Application of computer to legal concepts and the teaching of law.</td>
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<tr>
<td>BUL 201</td>
<td>Law of Contract I</td>
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<tr>
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<td>Contract: nature, formation and capacity.</td>
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<td>BUL 202</td>
<td>Law of Contract II</td>
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<tr>
<td>BUL 203</td>
<td>Industrial Law I</td>
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<tr>
<td>BUL 204</td>
<td>Industrial Law II</td>
<td>3</td>
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<tr>
<td>BUL 301</td>
<td>Commercial Law I</td>
<td>4</td>
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<tr>
<td>BUL 302</td>
<td>Commercial Law II</td>
<td>4</td>
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<tr>
<td>BUL 311</td>
<td>Banking Law I</td>
<td>3</td>
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<tr>
<td></td>
<td>Banking: nature, history and evolution of banking in Nigeria. Law regulating the establishment and operation of banking in Nigeria.</td>
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<tr>
<td>BUL 312</td>
<td>Banking Law II</td>
<td>3</td>
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<tr>
<td></td>
<td>Nature and legal effect of negotiable instruments, including cheques, promissory notes and bills of exchange.</td>
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<tr>
<td>BUL 313</td>
<td>Insurance Law I</td>
<td>3</td>
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<tr>
<td></td>
<td>Insurance: meaning and functions. Types of insurance: marine, life and personal accident, motor vehicle insurance, etc.</td>
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<tr>
<td>BUL 314</td>
<td>Insurance Law II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Insurable interests and principles of indemnity. Assignment of insurable policies. Undertaking and reinsurance claims. Settlement of claims.</td>
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</tbody>
</table>
BUL 401 Revenue Law I 3 Credits
Taxation: nature, meaning and forms. General principles and administration of tax. The rules governing residence and ordinary tax
payers: individuals, trustees, companies and other business organizations.
45h (T); E

BUL 402 Revenue Law II 3 Credits
Pensions and gratuities. Tax treatment of groups of companies, reconstruction, amalgamations and dividends.
45h (T); E

BUL 403 Law of Intellectual Property I 3 Credits
Copyright and confidential information: nature, ownership of rights, exploitation and the international environment. Implications
of new technology on copyright. Confidential information on property. The exploitation of property. Exploitation and protection of
the right.
45h (T); E

BUL 404 Law of Intellectual Property II 3 Credits
Forms of industrial property: trade marks, patents and industrial designs. The nature and historical designs. Nature and historical
revolution of the various species of industrial property rights and their expectation.
45h (T); E

BUL 501 Company Law I 4 Credits
Forms of business organization. Formation of companies. Memorandum of association and articles of association. Doctrine of
constructive notice and indoor management. Prospectus.
60h (T); C

BUL 502 Company Law II 4 Credits
and take-overs. Winding up. Partnership.
60h (T); C

BUL 503 Alternative Dispute Resolution and Commercial Arbitration I 3 Credits

**BUL 504**  
Alternative Dispute Resolution and Commercial Arbitration II  
3 Credits  

**BUL 506**  
Engineering Law  
3 Credits  

**BUL 599**  
Project  
6 Credits  
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

270h (P); C
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ISL 101</td>
<td>Introduction to Islamic Law I</td>
<td>2</td>
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<tr>
<td>ISL 102</td>
<td>Introduction to Islamic Law II</td>
<td>2</td>
<td></td>
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<tr>
<td>ISL 205</td>
<td>Islamic Constitutional Law I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ISL 206</td>
<td>Islamic Constitutional Law II</td>
<td>3</td>
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<tr>
<td>ISL 207</td>
<td>Islamic Law of Crime and Tort I</td>
<td>3</td>
<td></td>
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<tr>
<td>ISL 208</td>
<td>Islamic Law of Crime and Tort II</td>
<td>3</td>
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<tr>
<td>ISL 305</td>
<td>Mu’amal at (Islamic Law of Transaction) I</td>
<td>3</td>
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</table>

**ISL 101 Introduction to Islamic Law I**

Composite nature of sharia. The historical development of Islamic jurisprudence.  
30h (T); C

**ISL 102 Introduction to Islamic Law II**

30h (T); C

**ISL 205 Islamic Constitutional Law I**

Introduction to pre-Islamic Arabia. The historical development of Islamic Legal System. Sources of Islamic law.  
45h (T); E

**ISL 206 Islamic Constitutional Law II**

45h (T); E

**ISL 207 Islamic Law of Crime and Tort I**

45h (T); C

**ISL 208 Islamic Law of Crime and Tort II**

45h (T); C

**ISL 305 Mu’amal at (Islamic Law of Transaction) I**

45h (T); R
ISL 306  *Mu’amalat (Islamic Law of Transaction) II*  
3 Credits  
45h (T); C

ISL 307  *Islamic Family Law I*  
3 Credits  
45h (T); C

ISL 308  *Islamic Family Law II*  
3 Credits  
Termination of the contract of marriage. Definition and types of *iddah*; rights of the women under *iddah*, maintenance of wives, children, parents and other relatives. Establishment of paternity. *Conditions of hanada*.  
45h (T); C

ISL 309  *Principles of Islamic Law I*  
2 Credits  
History, nature and sources of Islamic Law, Law and Society in pre and post Islamic Arabia. Development of Judicial System in Islamic Law.  
30h(T); E

ISL 310  *Principles of Islamic Law II*  
2 Credits  
Introduction to Islam in West Africa. The Maliki School of Law, its spread, books and court system in Nigeria. Application of Islamic law during British era and the present day.  
30h(T); E

ISL 413  *Mirath & Wasyyahi I (Islamic Law of Intestate and Testate Succession)*  
3 Credits  
Definition of *mirath* and the rationale behind it in Islamic and pre-Islamic era. Elements of succession. Duties related to the estate. The legal heirs, *ashab all-furud, al-asabah, al-radd* and *awl dhaw al-arham baitul-mal*.  
45h (T); C

ISL 414  *Mirath & Wasyyahi II (Islamic Law of Intestate and Testate Succession)*  
3 Credits  
45h (T); C
ISL 415  *Usual-Al-Fiqh (Islamic Jurisprudence I)*  
3 Credits  
Historical background of Islamic jurisprudence. Nature of Islamic jurisprudence. Concept and the nature of Islamic system. Main sources of Islamic law. Right and obligations in Islamic law (al-ahkam), hakm hukm, mahkum, Bihi mahkum alahih, magasid.  
45h (T); C

ISL 416  *Usual-Al-fiqh (Islamic Jurisprudence II)*  
3 Credits  
45h (T); C

ISL 501  *Mura'fat I (Islamic Law of Evidence)*  
2 Credits  
30h (T); C

ISL 502  *Mura’fat II (Islamic Law of Evidence)*  
2 Credits  
30h (T); C

ISL 503  *Islamic Law of Banking I*  
2 Credits  
Acquisition of banking capital on the principle of mudaraba. Determination of profit and loss under mudadaraba. Economics of profit sharing. Rate and ratio of profit sharing. Determination of bankers and depositor’s ratio of profit sharing. Profit sharing as the chief alternative loans interest free bank loans. Government loans. Islamic Development Bank: objectives and operation.  
30h (T); E

ISL 504  *Islamic Law of Banking II*  
2 Credits  
Acquisition of banking capital on the principles of mudaraba. Determination of profit and loss under mudaraba. The economics of profit sharing.  
30h (T); E

ISL 505  *Islamic Property and Company Law I*  
2 Credits

30h (T); E

**ISL 506**  
Islamic Property and Company Law II  
2 Credits  
30h(T); E

**ISL 507**  
Islamic Medical Law and Ethics I  
2 Credits  
Scope and sources of Islamic Medical Law. Privacy, Confidentiality and Disclosure.  
30h(T); E

**ISL 508**  
Islamic Medical Law and Ethics II  
2 Credits  
30h(T); E

**ISL 509**  
Islamic International Law I  
2 Credits  
War and Peace among the nationa of antiquity and pre-Islamic Arabs. Space and Peaceful co-existence in Islam. The sources and development of Islamic law of war and peace (al-Siyar). The law of war  
45 (T):E

**ISL 510**  
Islamic International Law II  
2 Credits  
Law of peace. Peace treaties entered into by the Prophet. Nature and treaties and Agreements  
30h(T):E

**ISL 599**  
Project  
6 Credits  
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.  
270h (P); C
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<tr>
<td>JIL 101</td>
<td>Legal Methods I</td>
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<tr>
<td>JIL 102</td>
<td>Legal Methods II</td>
<td>2</td>
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<tr>
<td></td>
<td>Sources of law: primary and secondary sources. Use of source materials, law library and legal research. Judicial opinions and legal writing.</td>
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<td>30h (T); C</td>
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<td>JIL 201</td>
<td>Nigerian Legal System I</td>
<td>4</td>
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<tr>
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<td>The idea of legal system. Sources of Nigerian law.</td>
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<tr>
<td>JIL 202</td>
<td>Nigerian Legal System II</td>
<td>4</td>
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<tr>
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<td>Internal conflicts. The role of the judiciary. Court system.</td>
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<td>60h (T); C</td>
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<tr>
<td>JIL 301</td>
<td>Nigerian Environmental Law I</td>
<td>3</td>
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<tr>
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<td>Nature of environmental law. Land pollution.</td>
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<td>JIL 302</td>
<td>Nigerian Environmental Law II</td>
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<td>JIL 401</td>
<td>Conflict of Law I</td>
<td>3</td>
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<td>45h (T); E</td>
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<tr>
<td>JIL 402</td>
<td>Conflict of Laws II</td>
<td>3</td>
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Conflict situations (internal and external) and choice of law. Law of person: status, marriage and matrimonial causes, infants, legitimacy and legitimation, adoption, lunatics and succession. Law of obligations. Law of property; movable and immovable. Recognition and enforcement of foreign/state judgment. The need for a uniform legal system.

45h (T); E

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<tr>
<td>JIL 403</td>
<td><strong>Human Rights and Civil Liberties Law I</strong></td>
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<tr>
<td>JIL 404</td>
<td><strong>Human Rights and Civil Liberties Law I</strong></td>
<td>3</td>
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<tr>
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<td>Fundamental human rights provisions: right to life, right to dignity of human person, right to personal liberty, right to fair hearing, right to private and family life and right to freedom of thought, conscience and religion.</td>
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<tr>
<td>JIL 405</td>
<td><strong>Moot Court/Mock Trial</strong></td>
<td>2</td>
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<td>Legal brief to be prepared by each student on legal issues assigned by the course coordinator. Oral presentation by each student is to be assessed from point of dressing, presentation, comportment, sound legal reasoning, arguments and citation. Moot court proceedings and visit to watch court sessions.</td>
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<tr>
<td>JIL 406</td>
<td><strong>Research Methodology and Field Work</strong></td>
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<td>Introduction to legal research. Field work relevant to the training of lawyers (Report of field work to be submitted).</td>
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<td>JIL 501</td>
<td><strong>Jurisprudence and Legal Theory I</strong></td>
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<td>JIL 502</td>
<td><strong>Jurisprudence and Legal Theory II</strong></td>
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60h (T); C

**JIL 503**  
**Public International Law I**  
3 Credits  
The place of international law in the general scheme of legal studies, in relation to other disciplines. History of international law. Two possible approaches: international law as a legacy of Europe and international law as an institution, which appeared long before European self-assertion.  
45h (T); E

**JIL 504**  
**Public International Law II**  
3 Credits  
45h (T); E

**JIL 505**  
**Law and Social Change I**  
3 Credits  
Concept, theories of law. Law and social change.  
45h (T); R

**JIL 506**  
**Law and Social Change II**  
3 Credits  
Law as an instrument of social change. Law, politics, economy, religion and ethics.  
45h (T); R

**JIL 599**  
**Project**  
6 Credits  
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.  
270h (P); C

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**DEPARTMENT OF PRIVATE AND PROPERTY LAW**

**PPL 101**  
**Introduction to Private and Property Law I**  
2 Credits  
Definition of property. Nature of property and types of property. The concept of torts, equity and trust.  
30h (T); R

**PPL 102**  
**Introduction to Private and Property Law II**  
2 Credits
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PPL 201</td>
<td>Family Law I</td>
<td>3</td>
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<tr>
<td></td>
<td>Nature of family. Sources of Nigerian family law and succession.</td>
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<tr>
<td>PPL 202</td>
<td>Family Law II</td>
<td>3</td>
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<tr>
<td></td>
<td>Jactitation of marriage, judicial separation, maintenance and financial relief.</td>
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<tr>
<td>PPL 301</td>
<td>Law of Torts I</td>
<td>4</td>
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<tr>
<td></td>
<td>Historical background and general principles of tortious liability (defences will be considered in relation to each tort). Trespass to person: assault, battery, false imprisonment and intentional harm to the person. Trespass to land. Trespass to chattel. Conversion and detinue. Negligence.</td>
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<tr>
<td>PPL 302</td>
<td>Law of Torts II</td>
<td>4</td>
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<tr>
<td>PPL 305</td>
<td>Customary Law I</td>
<td>3</td>
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<tr>
<td>PPL 306</td>
<td>Customary Law II</td>
<td>3</td>
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<tr>
<td></td>
<td>Basic principles of law of persons. Legal personality, status and capacity. Status and capacity of females and minors. Family and other groupings based on marriage or descent: structure, legal significance and functions.</td>
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<tr>
<td>PPL 401</td>
<td>Land Law I</td>
<td>4</td>
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<tr>
<td></td>
<td>Historical evolution of land law. Sources of Nigerian land law. Terminology: ownership, possession, title rights, liability, land etc. Customary land law: modes of acquiring the title to land, settlement, expansion, loan or borrowing, pledge, gift, conquest,</td>
<td></td>
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</table>

60h (T); C

PPL 402 Land Law II

60h (T); C

PPL 403 Equity and Trust I

60h (T); C

PPL 404 Equity and Trust II

60h (T); C

PPL 405 Landlord and Tenant I

45h (T); E

PPL 406 Landlord and Tenant II

45h (T); E
<table>
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<th>Course Title</th>
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<tr>
<td>PPL 501</td>
<td>Legal Drafting and Conveyancing I</td>
<td>3</td>
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<tr>
<td></td>
<td>Definition, importance and fundamental rules of</td>
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<td>legal drafting. Legal drafting as a means of</td>
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<td></td>
<td>communication. The five stages of drafting.</td>
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<td>Techniques of drafting. Draftsman’s habits to</td>
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<td>be avoided. Use of punctuation in legal</td>
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<td>drafting. Aids to clarity and accuracy.</td>
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<td>45h (T); E</td>
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<tr>
<td>PPL 502</td>
<td>Legal Drafting and Conveyancing II</td>
<td>3</td>
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<tr>
<td></td>
<td>Law relating to the transfer of legal estate and</td>
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<td>interest in land. The contract for the transfer</td>
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<td>of a legal estate or interest in land, eases,</td>
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<td>mortgages and assignments. The transfer of title</td>
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<td>to land.</td>
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<td>45h (T); E</td>
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<tr>
<td>PPL 503</td>
<td>Nigerian Law of Succession I</td>
<td>3</td>
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<tr>
<td></td>
<td>General introduction to the law of succession.</td>
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<td>Succession under customary law and intestate</td>
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<td>succession (intestacy). Rules of inheritance.</td>
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<td>Jurisdiction in respect of inheritance or</td>
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<td>disposition of property on death under</td>
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<td>customary law.</td>
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<td>45h (T); E</td>
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<tr>
<td>PPL 504</td>
<td>Nigerian Law of Succession II</td>
<td>3</td>
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<tr>
<td></td>
<td>Succession under Received English law and local</td>
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<td>statutes. Testate and intestate succession.</td>
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<td>Wills under Received English law. Revocation of</td>
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<td>will by marriage. Testate and intestate</td>
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<td>succession under local statutes in Nigeria.</td>
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<td>Testate and intestate succession in respect of</td>
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<td>illegitimate children.</td>
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<td>PPL 599</td>
<td>Project</td>
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<td>Each student under the guidance of an approved</td>
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<td>in the submission of a project.</td>
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<td>PUL 102</td>
<td>Introduction to Nigerian Constitutional Development and Organization of Government II</td>
<td>2 Credits</td>
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<tr>
<td>PUL 103</td>
<td>Introduction to Policing in Nigeria I</td>
<td>2 Credits</td>
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<tr>
<td>PUL 104</td>
<td>Introduction to Policing in Nigeria II</td>
<td>2 Credits</td>
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<tr>
<td>PUL 201</td>
<td>Constitutional Law I</td>
<td>4 Credits</td>
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<tr>
<td>PUL 202</td>
<td>Constitutional Law II</td>
<td>4 Credits</td>
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<tr>
<td>PUL 203</td>
<td>Administrative Law I</td>
<td>3 Credits</td>
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PUL 204 Administrative Law II 3 Credits
45h (T); E

PUL 301 Criminal Law I 4 Credits
60h (T); C

PUL 302 Criminal Law II 4 Credits
60h (T); C

PUL 303 Local Government Law I 3 Credits
The nature of Local Government. The development of Local Government Authorities in Nigeria. The financing of local government. The local government franchise. The composition of local authorities. The committee system and the position of Local Government Officers
45h (T); E

PUL 304 Local Government Law II 3 Credits
The administrative, legislative and judicial powers and procedures as they affect the housing, town, country planning and education functions of local authorities. Judicial review of administrative action as it affects local authorities. The criminal, constructional and tortious liability of local authorities. The doctrine of ultra vires. Election petitions
45h (T); E

PUL 401 Law of Evidence I 4 Credits
60h (T); C

PUL 402 Law of Evidence II 4 Credits
PUL 403 Legislation I 3 Credits

45h (T); E

PUL 404 Legislation II 3 Credits

45h (T); E

PUL 407 Criminal and Civil Procedures I 3 Credits

45h (T); E

PUL 408 Criminal and Civil Procedure II 3 Credits

45h (T); E

PUL 501 Criminology I 3 Credits
The meaning, nature and scope of criminology. Evolution of criminological thought. Phenomenology, actionology of crime and victimology. Legal principles relating to insanity, mental deficiency and other forms of mental incapacity.

45h (T); E

PUL 502 Criminology II 3 Credits

45h (T); E
<table>
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<th>Course Code</th>
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<tr>
<td>PUL 503</td>
<td>Health Care Law I</td>
<td>3</td>
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<tr>
<td></td>
<td>Structure of the National Health Service. The ethical, disciplinary, legal organisation and control of medical staff. The ethical and legal rules relating to medical confidence and the proposals for their reforms.</td>
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<td><strong>45h (T); E</strong></td>
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<tr>
<td>PUL 504</td>
<td>Health Care Law II</td>
<td>3</td>
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<td>Arrangement for the family practitioner service. Special issues relating to employment in the health service including the appointment of staff and strike action. The provision of health care in the private sector and its control.</td>
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<tr>
<td></td>
<td><strong>45h (T); E</strong></td>
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<tr>
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<td>Project</td>
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<td><strong>270h (P); C</strong></td>
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</tr>
</tbody>
</table>
SUMMARY

COMMON LAW

100 LEVEL

Compulsory Courses: JIL 101 (2), 102 (2) = 4 Credits

Required Courses: BUL 101(2), 102(2), CSC 111(2), BUL 104(2), GNS 111(2), 112 (2), 101(2), 102(2), PUL 101 (2), 102(2), 103(2), 104(2) = 24 Credits

Elective Courses: At least 16 Credits from the following: ENG 106(3), 119 (3), HIS 111(2), POS 111 (3), 112(3), 113(3), 114(3), 143 (3) 145 (3), RCS 105 (2), 123 (2), SOC 105 (2), 112 (2), ISL 101 (2), 102(2) = 16 Credits

Total = 44 Credits

200 LEVEL

Compulsory Courses: BUL 201 (4), 202 (4), JIL 201(4), 202 (4), PUL 201 (4), 202 (4) = 24 Credits

Required Courses: Direct entry students are to offer the following: CSC 111 (2), BUL 104(2), JIL 101 (2), 102 (2), GNS 111 (2), 112 (2), 211 (2), 212 (2) = 16 Credits

Other students are to take: GNS 211 (2), 212 (2) = 4 Credits

Elective Courses: Direct entry students are to take at least 6 Credits while others are to offer at least 12 Credits from the following: BUL 203 (3), 204 (3), PPL 201 (3), 202 (3), 203(3), 204 (3), PUL 203 (3), 204 (3)

Total = 40 Credits

Direct Entry 46 Credits

300 LEVEL

Compulsory Courses: BUL 301(4), 302(4), PPL 301(4), 302(4) PUL 301(4), 302(4) = 24 Credits

Required Courses: GNS 311 (2), GSE 301 (3) = 5 Credits
Elective Courses: At least 6 Credits from the following:
BUL 311 (3), 312 (3), 313 (3), 314(3), JIL 301 (3), 302(3), ISL 309 (2), 310 (2), PPL 305 (3), 306 (3)
= 6 Credits
Total = 35 Credits

400 LEVEL
Compulsory Courses: PPL 401 (4), 402 (4), 403 (4), 404 (4), PUL 401 (4), 402 (4)
= 24 Credits
Required Courses: JIL 405 (2), 406 (2)
= 4 Credits
Elective Courses: At least 12 Credits from any two of the following combinations:
BUL 401 (3), 402 (3), 403 (3), 404 (3), JIL 401 (3), 402 (3), 403 (3), 408(3)
PPL 405 (3), 406 (3), PUL 403 (3), 404 (3), 407 (3), 408(3)
= 12 Credits
Total = 40 credit

500 LEVEL
Compulsory Courses: BUL 501 (4), 502 (4), JIL 501 (4), 502 (4) and any one of the following:
BUL 599 (6), JIL 599 (6), PPL 599 (6), PUL 599 (6)
= 22 Credits
Required Courses: JIL 505 (3), 506 (3)
= 6 Credits
Elective Courses: At least 12 Credits from the following:
= 12 Credits
Total = 40 Credits

Graduation Requirements:
199 Credits for UTME
161 Credits for DE
COMMON AND ISLAMIC LAW

100 LEVEL

Compulsory Courses: JIL 101 (2), 102 (2), ISL 101 (2), 102 (2) = 8 Credits

Required Courses: BUL 101 (2), 102 (2), CS111 (2), BUL 104 (2), GNS 111 (2), 112 (2), PUL 101 (2), 102 (2), 103 (2), 104 (2) = 24 Credits

Elective Courses: At least 6 Credits from the following:
ENG 104 (2), 106 (3), 110 (3), 119 (3), HIS 112 (2), ARA 143 (2), 144 (2), 145 (3), RIS 127 (2), POS 112 (3), 114 (3) = 6 Credits
Total = 38 Credits

200 LEVEL

Compulsory Courses: BUL 201 (4), 202 (4), JIL 201 (4), 202 (4), PUL 201 (4), 202 (4), 207 (3), 208 (3) = 30 Credits

Required Courses: Direct Entry students must offer the following:
JIL 101 (2), 102 (2), GNS 111 (2), 112 (2), 211 (2), 212 (2), CSC 111 (2), BUL 104 (2) = 16 Credits
Other students are to take GNS 211 (2), 212 (2) = 4 Credits

Elective Courses: Direct entry students are not expected to offer Elective Courses. While other students are to offer the following:
ISL 205 (3), 206 (3) = 6 Credits
Total = 40 Credits
or
Direct Entry = 46 Credits

300 LEVEL

Compulsory Courses: BUL 301 (4), 302 (4), ISL 307 (3), 308 (3), PPL 301 (4), 302 (4), 304 (4), 305 (3), 306 (3) = 36 Credits

Required Courses: GNS 311 (2), GSE 301 (3) = 5 Credits
Total = 41 Credits

400 Level

Compulsory Courses: PPL 401(4), 402 (4), 403 (4), 404 (4), PUL 401 (4), 402 (4), ISL 413(3), 415(3), 416(3)  
= 36 Credits

Required Courses: JIL 405 (2), 406 (2)  
= 4 Credits

Total = 40 Credits

500 Level

= 26 Credits

Required Courses: JIL 505 (3), 506 (3)  
= 6 Credits

Elective Courses: At least 8 credits from the following:
ISL 503(2), 504(2), 505(2), 506(2), 507(2), 508(2), 509(2), 510(2), 504(3); PPL 501(3), 502(3), 503(3), 504(3)  
= 8 credits

Graduation Requirements:
UTME - 199 Credits
DE - 167 Credits
FACULTY OF LIFE SCIENCES

DEAN'S OFFICE

A. Sani  B.Sc. (ABU); M.Sc. (Ilorin); Ph.D. (Warwick)  Professor and Ag Dean

O.D. Owolabi  B.Sc., M.Sc., Ph.D. (Ilorin)  Sub- Dean

L. Oluwole  B.A. (Ilorin)  Faculty Officer

DEPARTMENT OF BIOCHEMISTRY

M. T. Yakubu  B.Sc., M.Sc., Ph.D.(Ilorin)  Reader & Ag. Head

M. A. Akanji  B.Sc. (Ibadan); M.Sc., Ph.D.(OAU)  Professor

O. B. Oloyede  B.Sc.,M.Sc. (ABU); Ph.D. (Strathclyde)  Professor

C. O. Bewaji  B.Sc., M.Phil., Ph. D. (Ibadan)  Professor

Elizabeth A. Balogun  B. Sc., M.Sc. (Ibadan); Ph.D. (Ilorin)  Professor

Sylvia O. Malomo  B.Sc., M.Sc., Ph.D. (Ibadan)  Professor

Adenike T. Oladiji  B.Sc., M.Sc., Ph.D. (Ilorin)  Professor

J. O. Adebayo  B.Sc., M.Sc., Ph.D. (Ilorin)  Senior Lecturer

R. O. Arise  B.Sc., M.Sc., Ph.D. (Ilorin)  Senior Lecturer

Faoziyat A. Sulaiman  B.Sc., M.Sc., Ph.D. (Ilorin)  Lecturer II

A. Igunnu  B.Sc., M.Sc., Ph D. (Ilorin)  Lecturer II

M. O. Nafiu  B.Sc., M.Sc., Ph.D. (Ilorin)  Lecturer II

M. O. Salawu  B.Sc., M.Sc. (Lagos); Ph.D. (Ilorin)  Lecturer II

L. A. Quadri  B.Sc., M.Sc. (Ilorin)  Assistant Lecturer

Rukayat A. Oyegoke  B.Sc., M.Sc. (Ilorin)  Assistant Lecturer
DEPARTMENT OF MICROBIOLOGY

O. M. Kolawole  B.Sc., M.Sc., Ph.D. (Ilorin)  Senior Lecturer & Ag. Head
J. A. Akinyanju  B.Sc., Ph.D. (Lancaster)  Professor
A. B. Olayemi  B.Sc., M.Sc. (ABU); Ph.D. (Ilorin)  Professor
A. Sani  B.Sc. (ABU); M.Sc. (Ilorin); Ph.D. (Warwick)  Professor
G. P. Oyeyiola  B.Sc. (Maiduguri); M.Sc. (Ibadan);  Reader
                          M.Phil. (Ilorin); Ph.D. (BUK)

Hamdalat F. Muritala  B.Sc., M.Sc. (Ilorin)  Assistant Lecturer
Fatima Aluko -Abubakar  B.Sc. (FUTM); M.Sc. (Ilorin)  Assistant Lecturer
K. B. Bello  B.Sc. (Ilorin)  Graduate Assistant

J.A. Akosewa  WASC, OND, AIST  Technologist I
S.A. Babalola  WASC, Certificate in Computer Appreciation, B.Sc., M.Sc. (Ilorin)  Technologist II
Oyabebefa. E. Sunday-Seleke  WASC, B.Sc. (Ilorin)  Technologist II
<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Folakemi P. Omojasola</td>
<td>B.Sc. M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>M. O. Arekemase</td>
<td>B.Sc. (Benin); M.Sc., Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Risikat N. Ahmed</td>
<td>B.Sc. (BUK); M.Sc., Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
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<tr>
<td>Bolanle. K. Saliu</td>
<td>B.Sc. (Ilorin); M.Sc. (Ibadan); Ph.D. (Ilorin)</td>
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<tr>
<td>I. I. Anibijuwon</td>
<td>B.Sc., M.Sc. (EKSU); Ph.D. (FUTA)</td>
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<td>A. O. Udeze</td>
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<td>Assistant Lecturer</td>
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<tr>
<td>Mutiat O. Odebisi-Omokanye</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
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<tr>
<td>Rabiat O. Gambari- Ambali</td>
<td>B.Sc. (ABU); M.Sc. (Salford)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>Rahmat F. Zakariyah</td>
<td>B.Sc. (UDUS); M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>Jummai A. Abioye</td>
<td>B.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>A. I. Adam</td>
<td>B. Sc. (Al-Hikmah)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>S. O. Olabanji</td>
<td>ANIST</td>
<td>Principal Technologist</td>
</tr>
<tr>
<td>Mulikat S. Abubakar</td>
<td>ANIST</td>
<td>Senior Technologist</td>
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<tr>
<td>Amatul M. Nayyar</td>
<td>B.Sc. (Ilorin)</td>
<td>Technologist II</td>
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<td>Patience O. Otonewku</td>
<td>B.Sc. (Ilorin)</td>
<td>Technologist II</td>
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<tr>
<td>A. T. Zakari</td>
<td>B.Sc. (Ilorin)</td>
<td>Technologist II</td>
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</tbody>
</table>

DEPARTMENT OF OPTOMETRY AND VISION SCIENCE
M. O. Oriowo  B.Sc. Optom. (Benin); P.B. (Houston); M.Sc., Ph.D. (Waterloo), Cert. Univ. Teach. (KI, Stockholm), FAAO.  Professor & Head

**O.A. Oduntan  B.Sc. Optom. (Benin); Ph.D. (London)  Professor

S.E. Egbeahie

Ngozi C. Chidi-Egboka  B.Sc. O.D. (Benin), FNCO, FNOA

O.D. (Benin), MPH (Ilorin)  Lecturer II

Lecturer II

O. M. Ojo  O.D. (Benin)  Lecturer II

Habibah E. Agbabiaka

T. R. Akinbinu  O.D. (Benin)
# DEPARTMENT OF PLANT BIOLOGY

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
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<tbody>
<tr>
<td>A. A. Abdulrahman</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer &amp;</td>
</tr>
<tr>
<td>E.O. Etejere</td>
<td>B.Sc., Ph.D. (Ibadan); MBA (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>F. A. Oladele</td>
<td>B.Sc. (Lagos); Ph.D. (London)</td>
<td>Professor</td>
</tr>
<tr>
<td>J. A. Morakinyo</td>
<td>B.Sc., M.Sc., Ph.D. (OAU)</td>
<td>Professor</td>
</tr>
<tr>
<td>P. O. Fatoba</td>
<td>B.Sc., M.Sc., Ph.D. (OAU)</td>
<td>Professor</td>
</tr>
<tr>
<td>O. T. Mustapha</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin); MBA (Kano)</td>
<td>Reader</td>
</tr>
<tr>
<td>K. S. Olorunmaiye</td>
<td>B.Sc. (Ilorin); M.Sc. (Ibadan); Ph.D.(Ilorin), PGDE</td>
<td>Senior Lecturer</td>
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<tr>
<td>F. O. Egbedo</td>
<td>B.Sc., M.Phil. (Lagos)</td>
<td>Lecturer I</td>
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<tr>
<td>C. O. Ogunkunle</td>
<td>B. Sc. (Ilorin); M. Sc. (OAU); Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>B. U. Olayinka</td>
<td>B. Sc., M.Sc., PGDE, Ph.D. (Ilorin)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Khadijat A. Abdulkareem</td>
<td>B. Sc. (UDUS); M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>S. B. Adeyemi</td>
<td>B. Sc. (Ilorin); M.Sc. (Ibadan)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>G. S. Olahan</td>
<td>B. Sc. (ABU); M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>A. D. Animasaun</td>
<td>B. Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>T. Garuba</td>
<td>B. Sc. (UDUS); M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>S. Oyedeji</td>
<td>B. Sc. (Benin); M.Sc. (OAU)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>A. A. Lateef</td>
<td>B. Sc. (FUTM)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>S. E. Adebayo</td>
<td>ANIST</td>
<td>Technologist II</td>
</tr>
<tr>
<td>Name</td>
<td>Qualifications</td>
<td>Position</td>
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<tr>
<td>A.T. Ande</td>
<td>B.Sc. M.Sc., Ph.D. (Ilorin)</td>
<td>Professor &amp; Head</td>
</tr>
<tr>
<td>J.S. Omotosho</td>
<td>B.Sc. (ABU); M.Sc., Ph.D. (Ibadan)</td>
<td>Professor</td>
</tr>
<tr>
<td>U.S. Ugboroiko</td>
<td>B.Sc. (AAU); M.Sc. (Benin); Ph.D. (AAU)</td>
<td>Professor</td>
</tr>
<tr>
<td>Chioma G. Nzeh</td>
<td>B.Sc. (Lagos); M.Sc., Ph.D. (Ibadan)</td>
<td>Professor</td>
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<tr>
<td>M.K. Mustapha</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>O.D. Owolabi</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>W.S. Weliange</td>
<td>B.Sc., M. Phil. (SL); Ph.D. (Austria)</td>
<td>Senior Lecturer</td>
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<tr>
<td>O.A. Oduola</td>
<td>B.Sc, M.Sc. (Ibadan); Ph.D. (Lagos)</td>
<td>Lecturer I</td>
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<tr>
<td>O.A. Iyiola</td>
<td>B.Sc., M.Sc. (Ibadan)</td>
<td>Lecturer II</td>
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<tr>
<td>Olutomi A. Adeyemi-Ale</td>
<td>B.Sc. (OAU); M.Sc. (Ibadan)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>Saratu I. Abdulkareem</td>
<td>B.Sc. (ABU); M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>E.C. Amaechi</td>
<td>B.Sc. (NAU); M.Sc. (FUAU)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>O.J. Ademola</td>
<td>B.Sc. (ABU)</td>
<td>Assistant Lecturer</td>
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</table>
T.F. Olafimihan  B.Sc. (Ilorin)  Graduate Assistant
T.A. Anifowoshe  B.Sc. (Ilorin)  Graduate Assistant
O.A. Owolodun  B.Sc. (ABU)  Graduate Assistant
O.A. Babamale  B.Sc. (Ilorin)  Graduate Assistant
S.O. Abdulmumini  B.Sc. (Ilorin)  Technologist II
DEPARTMENT OF BIOCHEMISTRY

Course Description

B.Sc. Biochemistry

BCH 204  General Aspects of Metabolism  2 Credits
30h (T); C

BCH 211  General Biochemistry I  3 Credits
30h (T), 45h (P); C

BCH 212  General Biochemistry II  3 Credits
30h (T), 45h (P); C

BCH 214  Introduction to Cellular Biochemistry  2 Credits
30h (T); C
<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>BCH 221</td>
<td>Introductory Biochemistry Structure</td>
<td>2</td>
<td>Solutions. Osmotic pressure. Acids and bases. pH and buffers. Chemical kinetics. (For Students in College of Health Sciences only). 15h (T), 45h (P); C</td>
</tr>
<tr>
<td>BCH 222</td>
<td>Structure and Chemistry of Bio molecules</td>
<td>2</td>
<td>Carbohydrates. Proteins. Lipids. Nucleic acids. Vitamins. (For Students in College of Health Sciences only). 15h (T), 45h (P); C</td>
</tr>
<tr>
<td>BCH 223</td>
<td>Metabolism of Bio molecules</td>
<td>2</td>
<td>Enzymology. Bioenergetics. Metabolic energy. (For Students in College of Health Sciences only) 15h (T), 45h (P); C</td>
</tr>
<tr>
<td>BCH 224</td>
<td>Carbohydrate Metabolism</td>
<td>2</td>
<td>Glycolysis, glycogenesis, glycogenolysis, citric cycle and HMP gluconeogenesis. Metabolism of monomers. Regulation. (For Students in College of Health Sciences only) 15h (T), 45h (P); C</td>
</tr>
<tr>
<td>BCH 225</td>
<td>Lipid Metabolism I</td>
<td>2</td>
<td>Blood lipids. Oxidation of fats. Biosynthesis of lipids. Phospholipids. Unsaturated fatty acids. Essential fatty acids. (For Students in College of Health Sciences only) 15h (T), 45h (P); C</td>
</tr>
<tr>
<td>BCH 226</td>
<td>Proteins and Amino Acid Metabolism</td>
<td>2</td>
<td>Amino acid biosynthesis and catabolism. Urea cycle. Ketogenic and glucogenic amino acids. Inborn errors. (For Students in College of Health Sciences only). 15h (T), 45h (P); C</td>
</tr>
</tbody>
</table>
BCH 302 Food and Nutritional Biochemistry 2 Credits
An introduction to the theory and application of physical and chemical methods for determining the constituents of food. Food processing, preservation and storage of traditional foods: root and stem tuber; fruits and fruit drink; seeds and grains; green; and vegetables. Food poisoning and intoxication: prevention and cure. Food nutrients. Energy values of foods and energy expenditure by mammalians. Nutritive value of foods: carbohydrates; fats; protein; vitamins; mineral elements; and water. Nutritional disorders, prevention and therapy. Nutritional status and nutritional requirements. Recommended dietary allowances. Assessment of nutritional status. Nutrient requirements in relation to physical activity and ageing, diet and disease, obesity and under nutrition.
15h (T), 45h (P); C

BCH 303 Enzymology 3 Credits
30h (T), 45h(P); C

BCH 308 Metabolism of Carbohydrates 2 Credits
Degradation and digestion of carbohydrates: sugars; storage polysaccharides and cell walls. Reactions of sugars. Glycolysis, the Tricarboxylic acid cycle, the phosphogluconate pathway, the glyoxylate pathway, the pentose phosphate pathway and the cori cycle, the calvin pathway. Gluconeogenesis and glyconeogenesis. Disorders of carbohydrate metabolism.
30h (T); C
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<th>Credits</th>
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<tbody>
<tr>
<td>BCH 310</td>
<td>Students Industrial Work Experience (SIWES)</td>
<td>3</td>
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<td>Students will be attached to some industrial organizations for 3 months, the exact period being determined by the institution.</td>
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<td>135h (P); C</td>
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<tr>
<td>BCH 311</td>
<td>Metabolism of Nucleic Acids</td>
<td>2</td>
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<td>Genome organization and biosynthesis of proteins. Metabolism of purines and pyrimidines, nucleosides and nucleotides. Abnormalities in nucleic acid metabolism: xeroderma pigmenta and skin cancer.</td>
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<td>30h (T); C</td>
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<tr>
<td>BCH 312</td>
<td>Methods in Biochemistry</td>
<td>3</td>
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<td>Principles of instrUMENTation. Principles, methodologies and applications of electrophoresis, chromatography, thin layer chromatography, spectroscopy and spectrophotometry, centrifugation and isotopic techniques. Practical laboratory exercises in all areas of general biochemistry.</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>BCH 314</td>
<td>Bioenergetics</td>
<td>1</td>
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<td>High-energy compounds; Chemical potentials, Electrochemical potentials, Electron transport system and oxidative phosphorylation. Regulation of ATP production. Chemical thermodynamics; Oxidations and reductions.</td>
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<td>15h (T); C</td>
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<td>Course Code</td>
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<tr>
<td>BCH 315</td>
<td>Membrane Biochemistry</td>
<td>1</td>
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<td>15h (T); C</td>
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<tr>
<td>BCH 316</td>
<td>Metabolism of Amino Acids and Proteins</td>
<td>2</td>
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<td>Disorders of amino acid metabolism.</td>
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<td>30h (T); C, CC: BCH 303, BCH 311</td>
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<tr>
<td>BCH 321</td>
<td>Lipid Metabolism II</td>
<td>2</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>BCH 322</td>
<td>Nucleotides and Nucleic Acid</td>
<td>2</td>
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<td>Structures, metabolism and protein synthesis. Foreign bodies. (Cannot be taken with BCH 311).</td>
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<td>30h (T); C</td>
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<td>Course Code</td>
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<tr>
<td>BCH 323</td>
<td>Introduction to Clinical Biochemistry</td>
<td>1</td>
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<td>Metabolic errors. Diagnostic enzymes. Urinalysis (Cannot be taken by BCH major students).</td>
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<td>15h (T); C</td>
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<tr>
<td>BCH 401</td>
<td>Advanced Enzymology</td>
<td>2</td>
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<td>30h (T); C, PR: BCH 303</td>
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<tr>
<td>BCH 403</td>
<td>Metabolic Regulations</td>
<td>2</td>
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<td></td>
<td>The relationship of Krebs' Cycle to protein, carbohydrate, lipid and nucleic acids metabolism. Integration of metabolic pathways. Turn-over rates and metabolic pools. Regulation of enzymes of metabolic pathways- feedback inhibition versus enzyme synthesis. Catabolite repression, end product repression, the lactose operon and arabinose operon. Identification of different regulatory mechanism in metabolic pathways.</td>
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<td>30h (T); C, PR: BCH 204</td>
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<tr>
<td>BCH 406</td>
<td>Seminar</td>
<td>2</td>
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<td>Literature search. Presentation of seminars on comprehensive literature review of selected research topics.</td>
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<td>90h (P); C</td>
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</tbody>
</table>
BCH 412  Industrial Biochemistry  3 Credits
45h (T); C

BCH 413  Advanced Biochemical Methods  2 Credits
The purpose of this course is to familiarise students with operations of latest biochemical equipment and methods of research, assimilation and dissemination of information. Effective use of the library. Preparation of dissertations or theses and papers for journal publications and journal reviews.
90h (P); C

BCH 416  Biotechnology and Genetic Engineering  3 Credits
30h (T), 45h (P); C, PR: BCH 311
BCH 424  **Protein Chemistry**  
2 Credits  
Separation, extraction, isolation and purification techniques. Sequencing: end-group determination, fragmentation techniques and identification of specific amino acid residues. Chemistry, biosynthesis and importance of insulin, RNase and toxins.  
30h (T); C, PR: BCH 303

BCH 430  **Lipid Biochemistry**  
3 Credits  
Methods of extraction and purification of lipids. Structure determination. Metabolism of phospholipids and glycolipids. Calmodulin in lipid metabolism. Distribution, function, clinical application and biosynthesis of glycolipids, leucotrienes, prostaglandins and thromboxanes.  
30h (T), 45h (P); C, PR: BCH 301

BCH 431  **Plant Biochemistry**  
2 Credits  
30h (T); C

BCH 432  **Clinical and Forensic Biochemistry**  
2 Credits  
30h (T); E
BCH 433  **Biosynthesis of Macromolecules**  1 Credit
Structure and functions of macromolecules. Storage and structural polysaccharides, mucopolysaccharides, glycoproteins, bacterial cell wall synthesis of complex lipids, lippoproteins and nucleic acids.
15h (T); C

BCH 434  **Bioinorganic Chemistry**  1 Credit
15h (T); C, PR: BCH 211

BCH 435  **Tissue Biochemistry**  1 Credit
15h (T); C, PR: BCH 211

BCH 439  **Pharmacological Biochemistry**  2 Credits
30h (T); E
BCH 499  Research Projects                      5 Credits

Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department, culminating in the submission of a project.

225h (P); C
SUMMARY

100 LEVEL

Required Courses:
CHM 101(3), CHM 112(2), CHM 132(2), CHM 115(2), CHM 116(1), CSC 111(2), GNS 111(2), 112(2); MAT 111(3), 112(3), PHY 115(2), 142(2), 191(1), PLB 101(3), ZLY 103(2), 106(2) = 34 Credits
Total = 34 Credits

200 LEVEL

Compulsory Courses:
BCH 204(2), 211(3), 212(3), 214(2) = 10 Credits

Required Courses:
CHM 212(3), CHM 235(3), CHM 236(3), GNS 211(2), 212(2), MCB 205(3), STA 201(2), STA 204(2), PLB 201(3) = 23 Credits
Total = 33 Credits

DE:
GNS 111(2), GNS 112(2) = 4 Credits

300 LEVEL

Compulsory Courses:
BCH 301(3), BCH 302(2), BCH 303(3), BCH 308(2), BCH 310(3), BCH 311(2), BCH 312(3), BCH 314(1), BCH 315(1), BCH 316(2) = 22 Credits

Required Courses:
CHM 301(3), CHM 336(3), CHM 331(3), GNS 311(2), MCB 307(2), 308(3), GSE 301(3) = 19 Credits
Total = 41 Credits

400 LEVEL

Compulsory Courses:
BCH 401(2), BCH 403(2), BCH 406(2), BCH 412(3), BCH 413(2) BCH 416(3), BCH 419(1), BCH 424(2), BCH 430(3), BCH 431(2), BCH 433(1), BCH 434(1), BCH 435(1), BCH 499(5) = 30 Credits

Elective Courses:
BCH 432(2), 439(2)
Graduation Requirements:
UTME = 138
DE = 108
DEPARTMENT OF MICROBIOLOGY
Course Description

B.Sc. Microbiology

MCB 204 Microbiological Techniques I  1 Credit
45h (P); C

MCB 205 Microorganisms and Seedless Plants  3 Credits
History of microbiology. Structure, general characteristics and reproduction of viruses, bacteria, fungi, algae, lichens, bryophytes and pteridophytes. General methods for studying the specified groups.
30h (T), 45h (P); C

MCB 206 Introductory Microbial Ecology  3 Credits
Microorganisms and ecological theory. Mechanisms of adaptation of microorganisms to their environment. An Overview of occurrence of microorganisms in soil, water and air. Frontiers of microbiology.
30h (T), 45h (P); C

MCB 208 Introductory Microbial Physiology  3 Credits
Structure and organisation of prokaryotic and eukaryotic cells. Structure, function and synthesis of biological macromolecules. Biochemical reactions of microorganisms.
30h (T), 45h (P); C

MCB 307 Immunology  2 Credits
15h (T), 45h (P); C

MCB 311 Microbiological Techniques II  2 Credits
Data presentation and analysis. Microscopic measurements. Chromatography, centrifugation, electrophoresis, filtration and spectroscopy. Preparation of scientific reports. Experimental design and research methods in Microbiology.
90h (P); C, PR: MCB204

MCB 312 Microbial Physiology  3 Credits
30h (T), 45h (P); C, PR: MCB 208

MCB 313 Mycology  3 Credits
Mycological techniques. Detailed account of the systematics, morphology, reproduction and life cycles of selected fungal groups. Ecological aspects of Nigerian mycoflora.
30h (T), 45h (P); C, PR: MCB 205
MCB 314  Microbial Genetics and Molecular Biology  3 Credits
30h (T), 45 (P); C,  PR: PLB 201

MCB 315  Bacteriology  3 Credits
30h (T), 45h (P); C,  PR: MCB 205

MCB 316  Virology  3 Credits
30h (T), 45 (P); C,  PR: MCB 205

MCB 388  Industrial Attachment  3 Credits
Industrial attachment in an establishment where microbiological practice is carried out.
135h (P); C

MCB 402  Seminar and Original Essay  2 Credits
Literature review of an approved topic in microbiology plus oral presentation.
90h (P); C

MCB 406  Epidemiology and Public Health  2 Credits
Origin and spread of infectious diseases. Methods of determination of morbidity and mortality among different groups in populace. Control of infectious diseases.
15h (T), 45h (P); C,  PR: MCB 306

MCB 415  Microbiology of Water and Sewage  3 Credits
30h (T), 45h (P); C

MCB 417  Air Microbiology  2 Credits
Sources and distribution of microorganisms in the air. Dissemination and survival mechanisms. Methods for studying microorganisms in the air. Air pollution and purification techniques. Medical and agricultural importance of air-borne microorganisms.
15h (T), 45h (P); E

MCB 421  Petroleum Microbiology  3 Credits
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MCB 422</td>
<td>Medical and Veterinary Microbiology</td>
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<tr>
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<td>Host-parasite relationships. Mechanisms of infection. Etiology, pathogenesis and laboratory diagnosis of selected fungal, bacterial and viral</td>
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<td>diseases.</td>
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<td>30h (T), 45h (P); C, PR: MCB 313 and MCB 315</td>
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<td>MCB 423</td>
<td>Food and Dairy Microbiology</td>
<td>3</td>
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<td>Foods produced by microorganisms with emphasis on local foods. Contamination, spoilage and preservation of different kinds of foods. Food</td>
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<td>in relation to diseases. Microbiology of dairy products.</td>
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<td>MCB 424</td>
<td>Pharmaceutical Microbiology and Antimicrobial Agents</td>
<td>3</td>
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<tr>
<td></td>
<td>Nature of antimicrobial phenomenon. Physical and chemical antimicrobial agents. Isolation and production methods of antibiotics. Antimicrobial</td>
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<td>substances of plant origin. Testing antimicrobial agents. Drugs spoilage and preservation.</td>
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<td>30h (T), 45 (P); C</td>
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<tr>
<td>MCB 425</td>
<td>Industrial Microbiology</td>
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<td>Nature of Industrial Microbiology. Patents. Review of biology of microorganisms of industrial importance. Propagation, maintenance and</td>
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<td>improvement of industrial microorganisms. Optimization of fermentation processes. Study of selected industrial processes involving</td>
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<td>microorganisms. Bioassay in industrial production and quality control. Microbiological standards and specifications. Shelf-life and</td>
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<td>spoilage of industrial products.</td>
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<td>30h (T), 90h (P); C</td>
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<tr>
<td>MCB 429</td>
<td>Soil Microbiology</td>
<td>3</td>
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<td>Microorganisms in soil. Role of soil microorganisms in decomposition of plant and animal matter. Soil fertility and cycles of natural</td>
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<td>elements.</td>
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<td>MCB 499</td>
<td>Project</td>
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<td>in the submission of a project.</td>
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<td>225h (P); C</td>
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</table>
SUMMARY

100 LEVEL

Compulsory Course: Nil

Required Courses: PLB 101(3), PLB 108(3), ZLY 101(2), ZLY 103(2), CHM 101(3), CHM 112(2), CHM 115(2), CHM 116(1), CHM 132(2), PHY 115(2), GNS 111(2), GNS 112(2) = 34 Credits

Total = 34 Credits

200 LEVEL

Compulsory Courses: MCB 204(1), MCB 205(3), MCB 206(3), MCB 208(3) = 10 Credits

Required Courses: PLB 201(3), ZLY 201(3), BCH 211(3), CHM 213(2), CHM 235(3), CHM 236(3), CSC 111(2), GNS 211(2), GNS 212(2), ZLY 202(3) = 26 Credits

Total = 36 Credits

DE: GNS 111(2), GNS 112(2) = 4 Credits

300 LEVEL

Compulsory Courses: MCB 307(2), MCB 311(2), MCB 312(3), MCB 313(3), MCB 314(3), MCB 315(3), MCB 316(3) = 19 Credits

Required Courses: STA 201(2), STA 204(2), GNS 311(2), PLB 306(2), ZLY 312(3), = 14 Credits

Total = 33 Credits

400 LEVEL


Required Courses: PLB 407(3) = 3 Credits
Elective Courses: MCB 417 (2), MCB 421 (3)  Total = 34 Credits

Graduation Requirements:
UTME = 137
DE = 107
OD. OPTOMETRY AND VISION SCIENCE

NOTE: All 100 level course contents are as stated by the respective department. All course contents at other levels offered by other departments are as contained in the descriptions of concerned departments.

OPT 201 Human Anatomy I 3 Credits
Introduction to the science of anatomy and its subdivisions. The human anatomy (Gross and microanatomy) with emphasis on head and neck; levels of organization and anatomical terminology. Introduction to human embryonic and foetal development, the cell and cell division; Embryology of the eye. Skeletal system: the skull, with particular reference to the orbit. External structure of the globe. Muscular system: muscle types, the extra-ocular muscles and common tendinous ring. Electron micrographs to show relevant ultrastructures. Laboratory in human anatomy with emphasis on orbit, head and neck.
30h (T), 45h (P); C

OPT 203 Optics Laboratory 2 Credits
Techniques learned in geometrical optics are practiced using Optical bench experiments; object-image relationship, with Lenses and Mirrors, Magnification. Aberrations; Effect of prisms on rays. Ray tracing. Optical principles of Lensometry.
90h (P); C

OPT 210 Physical Optics 2 Credits
Principles of wave optics, interferences, diffraction, polarization, radiometry, holography, quantum nature of light, spectroscopy, lasers. Relativistic optics. Laboratory work is included.
15h (T), 45h (P); C

OPT 212 Human Anatomy II 2 Credits
Cardiovascular system: heart and major vessels; blood supply and drainage of the head, neck, brain, orbit, and globe. Neuroanatomy (Neurulation and the structure) of the brain. Central and peripheral nervous system. Basic neurons, spinal cord, brain stem, cerebrum, cerebellum with emphasis on their neuronal connections and functional significance. Cranial nerves associated with the eye and orbit. Autonomic nervous system.
15h (T), 45h (P); C

OPT 213 General Physiology I 3 Credits
Cell structure and cell physiology. Physiological regulation and homeostasis. Physiology of the cardiovascular system. Blood physiology covering: Fundamental principles of immunology with emphasis on the nature of antibodies and antigens; Body fluid compartments, composition and measurements; Characteristics of blood, red blood cell, white blood cells, and platelets; Haemopoiesis; Hemostasis; Blood groups and lymph; Antigen-antibody reactions. Physiology and regulation of respiration.

30h (T), 45h (P); C

**OPT 214 General Physiology II**
2 Credits
15h (T), 45h (P); C

**OPT 215 Geometrical Optics**
2 Credits
Principles of geometrical optics including reflections and refractions, spherical and cylindrical lenses mirrors, thin and thick lenses, lens systems, ray tracing, apertures, prisms, aberrations, lens design and optical instruments. Transposition and specification of ophthalmic lenses. Laboratory work is carried out in OPT 200.
15h (T), 45h (P); C

**OPT 218 Ocular Anatomy I**
3 Credits
30h (T), 45h (P); C

**OPT 300 Physiological Optics Laboratory I**
1 Credit
45h (P); C

**OPT 301 Ophthalmic Optics Laboratory**
1 Credit
Techniques learned in ophthalmic optics lectures are practiced. Frame and facial measurements. Methods of frame selection and patient styling. Ophthalmic Lens materials, Cutting, Chipping, Surfacing and edging, Drilling, Mounting of Lenses into frames and frame repairs.
45h (P); C
OPT 303 Physiological Optics I 2 Credits
The eye as an optical instrument; Reduced and schematic eyes; Anomalies of refraction and optical aberrations of the eye. The Badal optometer; Resolution and visual acuity. Laboratory includes measurement with Optometer set-ups; Demonstration of Purkinje images, optical aberrations, effect of defocus on visual acuity and refractive anomalies. Vernier Acuity.
15 (T), 45h (P); C

OPT 305 Ophthalmic Optics I 2 Credits
The history and development of ophthalmic lenses and frames. Manufacture of spectacle materials; Ophthalmic glass; plastic lenses and frames. Forms of spectacle lenses: spherical, cylindrical; Toric or Sphero-cylindrical lenses. Single vision lens designs; base curve, surface powers, front vertex power, back vertex power, effective power. Lens neutralization; cylindrical power and toric transposition. Lensometry. Parts of frames; Frame measurements and designs; IPD measurement; Lens and frame specifications; Toric surfaces; Centration and Decentration; Ophthalmic prisms and Prismatic effects. Special lenses.
30 (T); C

OPT 306 Ophthalmic Optics II 2 Credits
Bifocal and multifocal lenses; Base curve and near ADD; Types and specifications of bifocal segments; Trifocals; Absorptive lenses; Coats; Tints and Dyes; Optics of contact lenses and low vision devices; Impact resistance.
30 (T); C

OPT 307 General Optometry I 2 Credits
30 (T); C

OPT 309 Ocular Anatomy II 2 Credits
The structure of the vitreous, choroid and retina. Nerve and blood supplies to the eye and orbit. Embryology and development of the eye. Laboratory work is included.
15h (T), 45h (P); C

OPT 311 General Optometry II 2 Credits
Preliminary external tests continued. Clinical procedure and significance of the findings from penlight inspection, trans-illumination, pupillary test, versions and vergence tests, far and near points of accommodation (PR & PP), RAF rule, Placido disc. Munson sign, ocular palpation, confrontation visual field methods, and Amsler grid. Colour vision tests: Ishihara/pseudo-isochromatic plates, Richmond HRR test, Lantern test, Medmont C100 test, Farnsworth D15 and 100 Hue tests. Theory and measurement of visual acuity; Retinoscopy. An introduction to Keratometry, Ophthalmoscopy and external examination techniques. Accommodation: Its measurement and relationship to convergence. Ocular deviations: Phorias, Tropias, and an introduction to their measurement. Demonstrations and exercises are included.
15h (T), 45h (P); C

OPT 312 Ocular Physiology 2 Credits
15h (T), 45h (P); C
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>OPT 315</td>
<td>General Pathology</td>
<td>2</td>
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<tr>
<td></td>
<td>Introduction to the study of diseases, (short term paper on Tropical Diseases Research); Psychology of sleep; cognitive mental function (higher cerebral processes); Fundamental pathological processes such as tissue responses to parasitic infections and intestinal worms; anomalies of cellular functions; disorders of organ systems and human immunology; Hypersensitivity; Auto-immunity; Vaccines and vaccination; Serological surveys; Immunizable diseases, immunization schedules for common diseases; cold-chain management and vaccine intervention..</td>
<td>30h (T); C</td>
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<tr>
<td>OPT 316</td>
<td>Physiological Optics II</td>
<td>2</td>
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<td>The extraocular muscles, their electrophysiology, actions, and innervational systems. Accommodation, convergence the AC/A ratio and binocular co-ordination. Fusion, fusional vergence, retinal disparities and the horopter. Laboratory work includes: Determination of pupillary, accommodative and convergence functions; fixation patterns; Versions and vergences; Fusion and Panum’s Fusional Area; Phoria, Tropia and Horopter studies; Stereo acuity; Associated Phorias and Fixation disparity</td>
<td>15h (T), 45h (P); C</td>
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<tr>
<td>OPT 317</td>
<td>Legal and Forensic Optometry</td>
<td>2</td>
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<td>The development of optometry as a profession and its relationship with other applied health-care professions including ophthalmology and opticianry. The function and scope of the optometrist and other vision-care professionals at present and in the future. Legal recognition of optometry and the role of professional organizations. An introduction to optometric terms. Optometry practice in Nigeria; Road to legal recognition; Code of ethics and in-depth study of the Optometry practice Decree / Law. Role of the Nigerian Optometric Association; World Council of Optometry; Association of African Optometric Educators. Scope of modern Optometric practice and survey of its development worldwide. Legal requirements in the practice of Optometry: Rules of professional conduct; Basic concept of ethics and jurisprudence; The Optometrist in court and the requirement of expert evidence.</td>
<td>30h (T); C</td>
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<tr>
<td>OPT 324</td>
<td>Introduction to Genetics and Molecular Biology</td>
<td>2</td>
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<td></td>
<td>Introduction to genetics. Mendelian genetics. Linkage and Mapping. Nucleic acids. Replication and mutation. The genetic code and Protein synthesis. Genetic engineering. Gene regulation in bacteria and viruses. Implications for human health conditions and diseases are reviewed. Inherited diseases; their pattern and control.</td>
<td>30h (T); E</td>
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<tr>
<td>OPT 326</td>
<td>Neuroanatomy &amp; Neurophysiology</td>
<td>3</td>
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<td>General neuroanatomy and neurophysiology: neuron structure, individual neuron physiology; Electrophysiological recordings; Neural networks and information processing in neurons. Overview of retinal anatomy and visual pathway; Photoreceptors, first and second order neurons of the retina, optic nerve, optic chiasma, optic tract, Lateral geniculate body, optic radiation and cortical connections. Brodmann’s classifications of the brain; superior Colliculus; parietal regions; Cerebellum; midbrain; frontal fields; pontine gaze centre; Edinger Wesphal nucleus; Vestibular input to the eyes; Cranial nerves innervating the eyes. Neurophysiology of retina; Electoretinogram (ERG); Electrophysiology of the visual system: Centre-Surrond configuration; Transient and sustained cells, X,Y,W categories; Boycott and Dowling Schema; pre-colliculus and superior Colliculus features; Tectal Oculomotor control; Lateral geniculate physiology; striate and pre-striate cortex (in cat and monkey); Visual input to parietal and temporal lobes; the limbic system and prefrontal cortex; Effects of cortical and tectal lesions and eye movements; Clinical implications of visual evoked potential (VER) and Electoretinogram (ERG).</td>
<td>30h (T), 45h (P); C</td>
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<tr>
<td>OPT 328</td>
<td>General Pharmacology</td>
<td>2</td>
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**General principles of pharmacology; Drug administration; Absorption; Distribution; Biotransformation and excretion of drugs. Drug receptor interaction; Dose response relationship. Autonomic nervous system pharmacology (principles and classification of autonomic drugs); Anti-inflammatory drugs; Chemotherapy agents.**

30h (T); C

**OPT 330 Ocular Microbiology** 3 Credits
45h (T); C

**OPT 401 Physiological Optics Laboratory II** 1 Credit
45h (P); C

**OPT 402 Clinical and Mechanical Optics I** 2 Credits
Ophthalmic lens manufacture; Lens surfacing, polishing and glazing techniques; Grinding of prismatic and cylindrical lenses. Edging, insertion of lenses into frames. Front bench spectacle works and verification; Patient fitting; Ophthalmic frames, facial measurement and selection based on frame sizes. Format making; Marking and placement of optical centres; bifocals and multifocal segments. Spectacle adjustments and repairs. Manufacture of contact lenses and ocular prosthesis.
15h (T), 45h (P); C

**OPT 403 General Optometry Laboratory** 2 Credits
Preliminary techniques of routine eye examination are practiced on peers under the supervision of registered Optometrists. Integration and assessments of clinical findings are also practiced. Ocular diagnostic techniques are practiced as well, in preparation to examining actual patients.
90h (P); C

**OPT 404 Contact Lens Laboratory** 1 Credit
Prefitting examinations; Contact lens selection and fitting, evaluation of fit, insertion and removal. Lens inspection and verification. Lens modification (Hard lens) ordering and dispensing.
45h (P); C

**OPT 405 Ocular Pathology I** 2 Credits
Classification of ocular disease processes; Mechanism in ocular pathology. Disease of eyelid and adnexa, tear film, conjunctiva, Cornea, Episclera and Sclera: their signs and symptoms, clinical presentation, Pathophysiology, detection, diagnosis and management. Differential diagnosis of anterior segment disorders. Clinical demonstration is included.
15h (T), 45h (P); C

**OPT 406 Ocular Pathology II** 2 Credits

**OPT 407 Introduction to Scientific Research**  
2 Credits
Introduction to the basic principles of scientific research. Literature search and Review of current literature. Conceptualization and definition of research problems. Experimental design; Project planning; Work plan and budget; Data collection; Data analysis; Review of statistical methods; Interpretation of results; Conclusion and Referencing. Format for project write-up. Preparation /seminar write-up and presentation of data as oral and poster on selected research topic.

**OPT 409 Physiological Optics III**  
2 Credits
Photochemistry of vision. Sensory aspect of vision; Visual thresholds and adaptation. The mechanisms of colour vision; colour vision defects, their detection and significance. Electrophysiology of the retina and visual pathway. Laboratory work includes demonstration of Pulfrich phenomenon; colour vision tests; visual threshold experiments; Dark adaptation test; Electrophysiological techniques; Test of Stereopsis; Optical Illusion experiments and Leaf room.

**OPT 410 Endocrinology and Nutrition**  
2 Credits

**OPT 411 General Optometry III**  
2 Credits
Routine optometric examination: Visual acuities, cover tests, test of versions and vergences, near point of convergence, and fusion test. Theory, clinical procedure and result interpretation in keratometry; Retinoscopy (Static and dynamic); Subjective refraction; photometry; Presbyopia and near vision tests; graphical analysis; Von-Graefe phoria and prism vergence tests. Monocular and binocular balancing: Fogging; Fan-dial; and monocular cross cylinder. Measurement of associated phoria; Disparometry and Polaroid tests. Methods of measuring amplitude of accommodation, and determination of the near addition (ADD).

**OPT 412 Environmental Vision**  
2 Credits

**OPT 413 Contact Lenses I**  
2 Credits
History and development of contact lenses and their physical and optical properties. The anatomical and physiological implications of contact lens wear. Patient selection and contraindications to contact lens wear. Basic fitting techniques and contact lens designs. Assessing success of contact lens wear and therapy.
OPT 420 Physiological Optics IV 2 Credits
Perception of depth, direction, size, shape, distance, motion and time through the visual medium. Optical illusions and entoptic phenomena; their causes and significance to the visual system. Laboratory work in OPT 420 is a continuation of OPT 409 laboratory.
15h (T), 45h (P); C

OPT 421 Ocular Pharmacology 2 Credits
15h (T), 45h (P); C

OPT 422 General Optometry IV 2 Credits
Case history and its relationship to routine optometric examination continued. Introduction to case analysis and integration of individual findings. Case analysis, graphical analysis, diagnosis, prognosis and therapy. Introduction to specialized techniques such as Indentation Tonometry, Applanation Tonometry (including Goldmann, NCT and Tonomat), Ophthalmoscopy (including direct and indirect), Lensometry, Slit-Lamp Biomicroscopy, Stereo-acuity testing, Gonioscopy; Perimetry, Colour Vision tests, and Sphygmomanometer.
30h (T); C

OPT 424 Contact Lenses II 2 Credits
Advanced fitting techniques for high astigmatic patient with front surface toric, Back surface toric, and bitoric lenses. Keratoconus and contact lens designs for managing keratoconic patients. Presbyopia and management with contact lenses; Orthokeratology; Lens care and complications associated with contact lens wear and their management. Monitoring contact lens wearers.
30h (T); C

OPT 426 Strabismus and Amblyopia 2 Credits
15h (T), 45h (P); C

OPT 432 Optometric Instrumentation 1 Credit
Principles of operations, basic maintenance and repairs of common Optometric InstrUMENTs.
45h (P); C

OPT 434 Epidemiology of Ocular Diseases 2 Credits
Introduction to general epidemiologic concepts. Distribution and dynamics of diseases. Natural history, epidemiologic methods, Infectious disease epidemiology, decision analysis and clinical decision, study design, cohort study, case-control study etc. Consideration of prevalent diseases that are of interest to the Optometrist; Systemic diseases with ocular manifestations.
30 (T); C
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<tr>
<td>OPT 501</td>
<td>Clinical &amp; Mechanical Optics II</td>
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<td>Posting to optical dispensing display unit to handle patients referred for spectacle dispensing. Patients’ facial measurement; Frame selection and patients’ styling; Ophthalmic laboratory job order writing and billing; Ordering of the prescription; Front bench dispensing and verification of orders received; Patients’ fitting and adjustment of frames and minor repairs. Emergency frame and/or lens repair.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>OPT 503</td>
<td>Primary Optometry Clinic</td>
<td>4</td>
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<td>Examination, diagnosis, and treatment of patients/clients in the optometry clinic under the supervision of an Optometrist. Emphasis is placed on routine optometric examination and detection of refractive errors and any other oculo-visual disorders.</td>
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<td>180h (P); C</td>
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<td>OPT 505</td>
<td>Specialty Optometry Laboratory</td>
<td>2</td>
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<td>Laboratory exercise and practicing the methods of assessing Pediatric, Geriatric, Orthoptic and Low vision/Rehabilitative cases using basic equipment and techniques. Familiarization with the operations of latest optometric equipment is also emphasized.</td>
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<td>90h (P); C</td>
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<td>OPT 507</td>
<td>Contact Lens Clinic</td>
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<td>Examination, diagnosis, and treatment of patients for contact lens wear. Management of contact lens cases using appropriate fitting techniques and care regimen.</td>
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<td>135h (P); C</td>
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<td>OPT 509</td>
<td>Pediatric Optometry</td>
<td>2</td>
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<td>A review of the development of vision and the distribution of refractive errors among infants, common congenital disorders, clinical assessment procedures for the young patient (birth through elementary school). Identification of learning disorders and recommendation of appropriate remedial programme. Laboratory work including clinical procedures, instruction and assessment in pediatric optometry are learnt and practiced under routine setting.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>OPT 511</td>
<td>Low vision and Rehabilitative Optometry</td>
<td>3</td>
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<td>30h (T), 45h (P); C</td>
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<td>OPT 513</td>
<td>Community Outreach Programme</td>
<td>2</td>
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<td>Student exposure and participation in practical applications of all procedures on real patients in the community (at both rural and urban at health centres, geriatric homes etc), with appropriate case analysis and clarifications with supervising clinicians. Clinician-patient communication is assessed. Each student is evaluated on the subjective, objective, plan and management aspects of community patient care, e.g. referral. The community Optometry outreach course will follow the University of Ilorin Community Based Experience and Service (COBES) approach. Emphasis will be on rural communities to deliver eye care services and carry out survey of endemic eye and vision problems under WHO Vision 2020 – The Right to Sight Programme. Participation in vision screening programmes for schools, industries and institutions for the less privileged.</td>
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</table>
**OPT 519 Practice Management**
2 Credits
The scope and various modes of practice; single, partnership, group practice, employed practice in hospitals, government and industry. The development and management of an optometric practice. Office location and layout. The development of inter-and intra-professional relationships. Role and function of key stakeholders including Optometrists and Dispensing Opticians Registration Board of Nigeria etc. Policy document on unethical business practices.
30h (T); C

**OPT 525 Orthoptics**
2 Credits
An introduction to the binocular vision anomalies of both the strabismic, and non-strabismic patient. The treatment of problem of convergence and divergence, accommodation, fusional reserves. The detection, measurement and treatment of strabismus, eccentric fixation, microstrabismus, etc. The prognosis for a functional or cosmetic cure of binocular vision anomalies. Clinical procedures, instrumentation and assessment involved in orthoptics are learnt and practiced.
15h (T), 45h (P); C

**OPT 527 Applied Psychology for Optometrists**
2 Credits
30h (T); C

**OPT 598 Externship**
8 Credits
Six months (500 Level 2nd Semester and Long vacation) industrial and clinical attachment and rotation for ophthalmic care, optical laboratory and dispensing experience in Solo/Group Practice, as well as in optometric instrumentation and patient care provided in hospital, or multidisciplinary health care settings (external to the University) by students under strict supervisions of approved supervisors/preceptors. The aim of the course is for student to acquire industrial (clinical) experience under the Industrial Training Fund (ITF) scheme. Complete 24 weeks of 2nd semester and immediate long vacation posting under the SIWES (including 6-month Log Book from ITF). Students must submit a report on their ITF experience. The report will form part of the assessment/grade for the course.
360h (P); C

**OPT 601 Primary Care Optometry Clinic I**
3 Credits
Clinical practice with emphasis on total scope of optometric patient care including general care of children, adults and geriatric population; diagnosis of ocular disease; contact lenses; visual training and dispensing.
135h (P); C

**OPT 602 Primary Care Optometry Clinic II**
4 Credits
A continuation of OPT 601. Primary clinical eye-care practice with emphasis on total scope of optometric patient care including general care of children, adults and geriatric population; diagnosis of ocular disease; contact lenses; visual training and dispensing.
180h (P); C

**OPT 603 Rehabilitative and Low Vision Clinic**
4 Credits
Examination, diagnosis, treatment and management of patient exhibiting various forms of low vision and visual impairments.
180 (P); C

**OPT 604 Pediatric Optometry Clinic**
3 Credits
Examination, diagnosis, treatment and management of infants to adolescents under the supervision of an Optometrist. Orthoptics clinic is included.

135 (P); C

OPT 605 Patient Management Seminars 2 Credits
Seminars and clinical rounds: case presentation and discussions of patient management philosophies; Standard optometric analysis and therapies; Current diagnostic and therapeutic techniques; Referrals and inter-disciplinary approach to patient care. Prescription and follow-up care. Advanced patient management.
90h (P); C

OPT 606 Specialty Optometry Clinics 3 Credits
Clinical examination, diagnosis, and management of referred cases for specialist optometric management such as contact lens patients’ care; ocular prosthesis, visual field assessment, occupational vision assessment and management. Partly a continuation of OPT 504: Management of routine and special contact lens patients; Hard and soft contact lens care, Disposable and extended wear lens care. Contact lens fitting and patient management in cases of Aphakia, Keratoconus, Aniseikonia, and Corneal and Iris Defects. Cosmetic contact lens fitting.
135h (P); C

OPT 607 Advanced Practice Management 2 Credits
Financing the optometric practice; Initial purchase of equipment and stock; Accounting procedures; Investments; Limited Liability Companies. Introduction to the Legal system; Employment agreements.
15h (T), 45h (P); C

OPT 609 Functional Optometry 2 Credits
15h (T), 45h (P); C

OPT 611 Geriatric Optometry 2 Credits
Defining the geriatric patient. Psychological, Physiological, social and ocular problems of the elderly. Techniques for refraction, binocularity and ocular health assessment of the elderly with emphasis on evolitional and pathological changes. Special ocular-visual problems of concern to the elderly patient. Presbyopia, cataracts, aphakia, visual field losses, low contract sensitivity and colour vision defects. Handling, counseling the elderly patient. Problems of therapy, management and compliance. Special problems of the hospitalized and bedridden elderly patients.
30h (T); C

OPT 613 Neuropathology 2 Credits
30h (T); C

OPT 615 Seminar in Research Topics 2 Credits
Recent developments in Optometry and Vision Science. Current research methods, their advantages and disadvantages. Review of current literature. Current diagnostic and therapeutic techniques: advantages and drawbacks. Students are divided into groups. This course touches on the progress of student research project.
90h (P); C
OPT 617 Hospital Practice Exposure 2 Credits
This involves attending to patients within health care settings external to the University: Hospital, Health Centres and approved private eye care service centres. Inter-disciplinary practice.
90h (P); C

OPT 699 Research Project 6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.
270h (P); C

SUMMARY

100 LEVEL

Compulsory Courses: GNS 111(2), GNS 112(2)
Required Courses: (Chemistry, Biology, Physics, Mathematics and Statistics in the Faculty of Physical Science / Life Sciences): CHM 101(3), CHM 112(2), CHM 115(2), CHM 116(1), CHM 132(2), CSC 111 (2), CSC 112 (2), MAT 112(3), MAT 113(3), PHY 115(2), PHY 125(3), PHY 152(3), PHY 191(1), PHY 192(1), PLB 101(3), STA 134(2), ZLY 103(2), ZLY 106(2)

Total Credits = 43

200 Level

Compulsory Courses: OPT 201(3), OPT 203(2), OPT 210(2), OPT 212(2), OPT 213(3), OPT 214(2), OPT 215(2), OPT 218(3).

Required Courses : GNS 211(2), GNS 212(2), BCH 211(3), BCH 212(3), MCB 204(1), MCB 208(3), STA 201(2), STA 204(2).

Elective Courses: CHM 235(3).

Total Credits = 40

Direct Entry: GNS 111(2), GNS 112(2) 
Total = 44
300 Level

**Compulsory Courses:** OPT 300(1), OPT 301(1), OPT 303(2), OPT 305(2), OPT 306(2), OPT 307(2), OPT 309(2), OPT 312(2), OPT 313(2), OPT 315(2), OPT 316(2), OPT 317(2), OPT 324(2), OPT 326(3), OPT 328(2), OPT 330(3)  
= 32

**Required Courses:** GNS 311(2), GSE 301(3), BCH 308(2), BCH 312(3),  
= 10

**Elective Courses:** CHM 312(2), STA 351(3)  
= 5

Total Credits  = 47

400 Level

**Compulsory Courses:** OPT 401(1), OPT 402(2), OPT 403(2), OPT 404(1), OPT 405(2), OPT 406(2), OPT 407(2), OPT 409(2), OPT 410(2), OPT 411(2), OPT 412(2), OPT 413(2), OPT 420(2), OPT 421(2), OPT 422(2), OPT 424(2), OPT 426(2), OPT 432(1), OPT 434(2),  
= 35

**Elective Courses:** BUS 413(3), ICS 411(3), STA 435(3)  
= 9

Total Credits  = 44

500 Level

**Compulsory Courses:** OPT 501(2), OPT 503(4), OPT 505(2), OPT 507(3), OPT 509(2), OPT 511(3), OPT 513(2), OPT 519(2), OPT 525(2), OPT 527(2), OPT 598(8).  
= 32

Total Credits  = 32
600 Level

Compulsory Courses: OPT 601 (3), OPT 602 (4), OPT 603 (4), OPT 604 (3), OPT 605 (2), OPT 606 (3), OPT 607 (2), OPT 611 (2), OPT 613 (2), OPT 615 (2), OPT 617 (2), OPT 698 (6), OPT 609 (2) = 37

Total Credits = 37

Graduation Requirements

UTME = 226 Credits
DE = 187 Credits
B.Sc. Plant Biology

PLB 101  **Cell Biology**  3 Credits
30h (T), 45h (P); C

PLB 108  **Plant Diversity: Forms and Functions**  3 Credits
Diversity. Morphology and general characteristics of viruses, bacteria, fungi, algae, bryophytes, pteridophytes, gymnosperms and angiosperms. Structure and functions of main organs in angiosperms.
30h (T), 45h (P); C

PLB 201  **Introductory Genetics and Evolution**  3 Credits
30h (T), 45h (P); C

PLB 202  **Systematics and Morphology of Seed Plants**  3 Credits
Comparative vegetative and reproductive morphology of gymnosperms and angiosperms. Heterospory and the concept of the seed. Classification of selected angiosperm families.
30h (T), 45 (P); C

PLB 203  **Introductory Physiology**  3 Credits
Cell structure and organisation. Synthesis of biological macromolecules. Respiration, nutrition, transport, excretion and reproduction in plants and animals.
30h (T), 45h (P); C

PLB 204  **Systematics of Seedless Plants**  3 Credits
Organization of prokaryotic and eukaryotic cells. Structure, general characteristics and reproduction of viruses, bacteria, fungi, algae, lichens, bryophytes, pteridophytes. General methods for studying the specified groups.
30h (T), 45h (P); C

PLB 301  **Laboratory Practice in Botany**  2 Credits
90h (P); C, PR: PLB 202

PLB 302  **Plant Taxonomy**  3 Credits
30h (T), 45 (P); C, PR: PLB 202

PLB 303  Plant Anatomy  3 Credits
30h (T), 45h (P); C, PR: PLB 202

PLB 304  Plant Physiology  4 Credits
30h (T), 90h (P); C, PR: PLB 203

PLB 305  Economic Botany  3 Credits
Botanical characteristics, cultivation and uses of economic plants in Nigeria: fibre, rubber, oil, cocoa, coffee, kola, grains, pulses, tubers, vegetables, etc. Toxicological and pharmaceutical importance of plant products.
30h (T), 45h (P); C

PLB 306  Principles of Plant Pathology  2 Credits
15h (T), 45h (P); C

PLB 307  General Ecology  3 Credits
Modern concepts in the study of ecology: Communities, population, ecosystem, habitat and evolution/Historical.
30h (T), 45h (P); C

PLB 308  Genetic Analysis and Introductory Cytogenetics  3 Credits
30h (T), 45h (P); C, PR: PLB 201

PLB 309  Micropropagation of Plants  2 Credits
15h (T), 45h (P); E

PLB 310  Recombinant DNA Technology  2 Credits
15h (T), 45h (P); E
**PLB 311 Algology**
Morphology, classification and reproductive strategies in algae. Origin and ecological distribution of algae. Relevance of algae to the biosphere.
15h (T), 45h (P); E

**PLB 312 Bryology**
General characteristics, classification and morphological features of bryophytes. Ecological distribution and the importance of bryophytes to the biosphere.
15h (T), 45h (P); E

**PLB 399 Students’ Industrial Work Experience Scheme (SIWES)**
Attachment of students during the long vacation to industries, institutions or field stations relevant to any one of the following: Afforestation. Applied plant anatomy, Aquatic and population biology, Horticulture and biotechnology. (Assessment by Report).
135h (P); C

**PLB 402 Seminar**
Literature review of an approved topic in Plant Biology and oral presentation.
90h (P); C

**PLB 403 Plant Morphogenesis**
30h (T), 45h (P); E, PR: PLB 303

**PLB 404 Cell Ultrastructure**
15h (T), 45 (P); E, PR: PLB 303

**PLB 405 Plant Transformation Technology**
15h (T), 45h (P); E, PR: PLB 310

**PLB 406 Plant Biochemistry**
Biochemical techniques, enzymology, photosynthesis, respiration, nitrogen metabolism and lipid metabolism. Plant products.
30h (T), 45h (P); C, PR: PLB 304

**PLB 407 Plant Pathology**
Classification of plant diseases. Pathogens, etiology and disease cycles of some economic crops in Nigeria. Practical plant protection methods involving chemicals, cultural practice and biological control.
PLB 408  Molecular Biology  2 Credits
15h (T), 45h (P); C

PLB 409  Cytogenetics  3 Credits
30h (T), 45h (P); C

PLB 410  Palynology  2 Credits
Structure and classification of pollens. Pollen development and fossilization. Pollen wall characteristics in plant systematics and oil industry.
15h (T), 45h (P); E, PR: PLB 302

PLB 411  Plant Breeding  3 Credits
30h (T) 45h (P); E, PR: PLB302 and PLB 303

PLB 412  Wood and its Industrial Utilization  2 Credits
15h (T), 45h (P); E, PR: PLB 303

PLB 413  Plant Ecology  3 Credits
30h (T), 45h (P); C

PLB 414  Conservation and Development of Forest Resources  3 Credits
30h (T), 45h (P); C, PR: PLB 302

PLB 415  Soil Science  2 Credits
Classification and characteristics of soils. Chemical components and analysis of soil and plant tissues. Plant and water relationship.
15h (T), 45h (P); E

PLB 416  Plant Virology  3 Credits

**PLB 417** Plants in Environmental Impact Assessment  
2 Credits  
Concept of Environmental Impact Assessment (EIA). Sources of environmental pollution. Lower and higher plants used in bio monitoring of environmental pollution. Concept of waste management.  
15h (T), 45h (P); E

**PLB 418** Biomimetics  
2 Credits  
Biological structures and functions: vessels, fibres, trichomes, etc. Design of biomaterials. DNA, proteins, fats and carbohydrates. Structures and properties of bio-composites; wood, collagen, silk, etc. Design and genesis of synthetic materials.  
15h (T), 45h (P); E

**PLB 420** Botany in Landscaping and Range Management  
2 Credits  
Botanical characteristics of hedge and ornamental plants. Design of botanical gardens. Plants in interior decoration and lawn maintenance.  
15h (T), 45h (P); E

**PLB 421** Plant and Water Relations  
2 Credits  
Water content of cells. Diffusion, osmosis, matric forces, cell water potential, solute potential, pressure potential, plasmolysis, transpiration, absorption and movement of water into plants.  
15h (T), 45h (P); E

**PLB 499** Research Project  
5 Credits  
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.  
225h (P); C

**SUMMARY**

**100 LEVEL**

**Compulsory Courses:**  
PLB 101 (3), PLB 108 (3).  
= 6 Credits

**Required Courses:**  
ZLY 101(2), ZLY 103(2), ZLY 106(2), CHM 101(3), CHM 112(2), CHM 115(2), CHM 116(1), CHM 132(2), PHY 115(2), PHY 142(2), PHY 191(1), PHY 192(1), MAT 115(2), MAT 116(2), GNS 111(2), GNS 112(2)  
= 30 Credits

**Total = 36 Credits**

**200 LEVEL**

**Compulsory Courses:**  
PLB 201 (3), PLB 202 (3), PLB 203 (3), PLB 204 (3)  
= 12 Credits
Required Courses:  
MCB 206(3), ZLY 201(3), ZLY 202(3), BCH 211(3), CHM 213(2), CHM 235(3), CHM 236(3), CSC 111(2), GNS 211(2), GNS 212(2)  
\[= 26 \text{ Credits}\]

\[\text{Total} = 38 \text{ Credits}\]

DE:  
GNS 111(2) and 112(2)  
\[= 4 \text{ Credits}\]

300 LEVEL

Compulsory Courses:  
PLB 301(2), PLB 302(3), PLB 303(3), PLB 304(3), PLB 305(3), PLB 306(2), PLB 307(3), PLB 308(3), PLB 399(3)  
\[= 25 \text{ Credits}\]

Required Courses:  
STA 201(2), STA 204(2), MCB 313(3), GNS 311(2), GSE 301(3)  
\[= 12 \text{ Credits}\]

Elective Courses:

ZLY 301(3), ZLY 302(3), ZLY 303(3), PLB 309(2), MCB 316(3), PLB 311(2), PLB 312(2), CSC 201(2), CSC 206(2)  
\[\text{Total} = 37 \text{ Credits}\]

400 LEVEL

Compulsory Courses:  
PLB 402(2), PLB 406(3), PLB 407(3), PLB 408(2), PLB 409(3), PLB 413(3), PLB 414(3), PLB 499(5)  
\[= 24 \text{ Credits}\]

Elective Courses:  
To offer a minimum of 10 Credits from the following:
PLB 403(3), PLB 404(2), PLB 405(2), PLB 410(2), PLB 411(3), PLB 412(2), PLB 415(2), PLB 416(3), PLB 418(2), PLB 420(2), PLB 421(2), PLB 417(2)

Graduation Requirements:
UTME = 135 Credits
DE = 103
DEPARTMENT OF ZOOLOGY
Course Description

B.Sc. Zoology

ZLY 101 Introductory Ecology
Factors controlling the distribution of animals, communities and population. Succession and climax. Man and environment.
15h (T), 45h (P); C

ZLY 103 Introductory Animal Diversity
Classification of animals. Diagnostic feature of major evolutionary trend. Nomenclature and invertebrate and vertebrate phyla and classes to reflect evolutionary trend.
15h (T), 45h (P); C

ZLY 106 Mammalian Forms and Functions
Structure and functions of organ system in mammals: circulatory, excretory, reproductive, nervous, respiratory, digestive, endocrine systems and integument.
15h (T), 45h (P); C

ZLY 201 Basic Invertebrate Zoology
Biology of Amoeba, Paramecium, Plasmodium, Leucosolenia, Obelia, Aurelia, Actinia, Dugesia, Fasciola, Taenia, Ascaris, Hyperodirilus, Nereis, Hirudo, Achachatina, Aspatheria, Sepia, Macrbrachium, Lycosa, Polydesmus, Periplaneta, and Astereopecten. Illustrating the classification, organization, evolutionary trend and diversity of invertebrates.
30h (T), 45h (P); C, PR: ZLY 201

ZLY 202 Basic Chordate Zoology
Biology of Balanoglossus, Ciona, Branchiostoma, Petromyzon, Scolidon, Tilapia, Bufo, Agama, Colubia, and Rattus. Illustrating the classification, organization, evolutionary trends and diversity.
30h (T), 45h (P); C

ZLY 204 Zoological Techniques & Laboratory Practice
Methods of investigating and recording. The structure of zoological specimen, microscope and microscopy. Dissection techniques, drawing and labeling, use of identification and classification keys. Methods of collection, preparation of slides and museum specimens. Photography
90h (P); C

ZLY 301 Biology of Arthropods
Diversity and adaptive radiation in the phylum Arthropoda. Structure and function of organ systems. General Biology of selected groups with emphasis on those of economic importance.
30h (T), 45h (P); C, PR: ZLY 201

ZLY 303 Biology of Free-living Non-Arthropod Invertebrates
Classification, adaptation, morphology, anatomy and life cycle of free-living non-arthropod invertebrates. Evolutionary trends among invertebrates and interrelationship with chordates
30h (T), 45h (P); C, PR: ZLY 201
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZLY 304</td>
<td><strong>Life of Chordates</strong></td>
<td>3</td>
<td>Taxonomy, evolution, interrelationship, basic organization and mode of life of the major chordates groups; protectorates, fish, amphibians, reptiles, birds and mammals</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>30h (T), 45h (P); C, PR: ZLY 202</em></td>
</tr>
<tr>
<td>ZLY 306</td>
<td><strong>Comparative Animal Physiology</strong></td>
<td>3</td>
<td>Comparative study of nutrition, respiration, reproduction and salt/water balance in animals. Nerves and muscles biophysics of excitable membranes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>30h (T), 45h (P); C</em></td>
</tr>
<tr>
<td>ZLY 308</td>
<td><strong>Histology</strong></td>
<td>3</td>
<td>Cellular basis of tissue formation, Main features of animal cell. Tissues, organs and systems. Histological and histochemical techniques in Zoology. Principles of enzyme histochemistry</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>30h (T), 45h (P); C</em></td>
</tr>
<tr>
<td>ZLY 310</td>
<td><strong>Introductory Environmental Physiology</strong></td>
<td>2</td>
<td>Osmotic regulations, excretion, transport of respiratory gases, metabolic and temperature regulation in animal and in relation to their environment</td>
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<td></td>
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<td></td>
<td><em>15h (T), 45h (P); E</em></td>
</tr>
<tr>
<td>ZLY 311</td>
<td><strong>Animal Ecology</strong></td>
<td>3</td>
<td>Concept of communities, population dynamics, growth and interaction. Energy flow and nutrient cycling. Aquatic and terrestrial ecosystems. Succession, natality, mortality,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>30h (T), 45h (P); C</em></td>
</tr>
<tr>
<td>ZLY 312</td>
<td><strong>Principles of Parasitology</strong></td>
<td>3</td>
<td>General concept of parasitism, Host-parasite relationship, classification, morphology, life cycles and adaptation of selected protozoans, platyhelminths and nematode parasites.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td><em>30h (T), 45h (P); C, PR: ZLY 201</em></td>
</tr>
<tr>
<td>ZLY 314</td>
<td><strong>Introduction to Fisheries and Aquaculture</strong></td>
<td>3</td>
<td>Basic structure and adaptation of fish to aquatic environment. Introduction to marine and freshwater Fisheries. Principles of fish culture, fish nutrition, diseases and management. Fishery industry in Nigeria.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td><em>30h (T), 45h (P); C</em></td>
</tr>
<tr>
<td>ZLY 399</td>
<td><strong>Industrial Field Experience</strong></td>
<td>3</td>
<td>Attachment of students to establishments concerned with management, pest control, animal and public health.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>135h (P); C</em></td>
</tr>
<tr>
<td>ZLY 402</td>
<td><strong>Seminar</strong></td>
<td>2</td>
<td>Literature review and presentation on an approved topics in Zoology and oral presentation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>90h (P); C</em></td>
</tr>
<tr>
<td>ZLY 403</td>
<td><strong>Applied Entomology</strong></td>
<td>3</td>
<td>Concept of natural population of insect pests. Economic thresholds and injury levels. Biology of pests of agricultural and medical importance in the tropics. Principles of pest management.</td>
</tr>
</tbody>
</table>
ZLY 404 Economic Parasitology  
Biology of parasites which cause diseases in man and domestic animals in the tropics. Epidemiology and control of parasites and their vectors.  
30h (T), 45h (P); C, PR: ZLY 201

ZLY 405 Limnology  
30h (T), 45h (P); C

ZLY 406 Fisheries and Aquaculture  
Fish taxonomy. Biology of fishes of economic importance in Nigeria. Culture diseases. Fish preservation and marketing. Fishing gear technology  
30h (T), 90h (P); C

ZLY 407 Animal Behaviour  
Basis of behaviours. Kinetic and tactic reactions. Instinct and intelligence, Territoriality, migration, navigation and orientation mechanisms.  
30h (T), 45h (P); E

ZLY 408 Wildlife Management and Conservation  
Dynamics of wildlife populations and the techniques of their investigation. Principles of wildlife management and policies.  
30h (T), 45h (P); E

ZLY 409 Applied Population Community Ecology  
30h (T), 45h (P); E

ZLY 410 Comparative Vertebrate Anatomy  
The basic anatomy of vertebrates. Vertebrate evolution and interrelationship groups. Vertebrate and comparative anatomy of vertebrates organ – systems.  
30h (T), 45h (P); C

ZLY 417 Embryology  
Fertilization and cytoplasmic changes in the fertilized egg. Gastrulation and formulation of primary organ rudiments.  
30h (T), 45h (P); C

ZLY 418 Nigerian Animals  
General survey of local mollusks, arthropods and vertebrates. Domestic sampling techniques of animals.  
30h (T), 45h (P); E
**ZLY 420**  Principles of Zoo Keeping and Animal Breeding  
Establishment and managements of Zoological gardens. Techniques of animal capture and domestication. Apiculture, Malaculture and Sericulture  
3 Credits

**ZLY 499**  Project  
Each student under the supervision of an approved supervisor is required to conduct research in an area approved by the department culminating in the submission of a project.  
5 Credits

**SUMMARY**  
**100 LEVEL**

<table>
<thead>
<tr>
<th>Compulsory Courses:</th>
<th>ZLY 101(2), ZLY 103(2), ZLY 106(2)</th>
<th>= 6 Credits</th>
</tr>
</thead>
</table>

Total = 36 Credits

**200 LEVEL**

<table>
<thead>
<tr>
<th>Compulsory Courses:</th>
<th>ZLY 201(3), ZLY 202(3), ZLY 204(2),</th>
<th>= 8 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses:</td>
<td>BCH 211(3), PLB 201(3), PLB 202(3), PLB 203(3), CHM 213(2), CHM 235(3), CHM 236(3), CSC 111(2), MCB 205(3), MCB 202(3), GNS 211(2), GNS 212(2)</td>
<td>= 32 Credits</td>
</tr>
</tbody>
</table>

Total = 40 Credits

| DE: | GNS 111(2), 112(2) | = 4 Credits |

**300 LEVEL**

| Compulsory Courses: | ZLY 301(3), ZLY 312(3), ZLY 303(3), ZLY 304(3), ZLY 306(3), ZLY 308(3), ZLY 311(3), ZLY 314(3), ZLY 399(3) | = 27 Credits |
Required Courses: GNS 311 (2), STA 201 (2), STA 204(2), PLB 308 (3), GSE 301(3)  
\[= 12 \text{ Credits}] 

Elective Course: ZLY 310(2) 
\[= \text{Total } 39 \text{ Credits}] 

400 LEVEL 

Compulsory Courses: ZLY 402(2), ZLY 403(3), ZLY 404(3), ZLY 405(3), ZLY 406(4),  
ZLY 410(3), ZLY 417(3) ZLY 499(5)  
\[= 26 \text{ Credits}] 

Elective Courses: 
At least 6 credits from the following: 
ZLY 407(3), ZLY 408(3), ZLY 409(3), ZLY 418(3), ZLY 420(3)  
\[= 6 \text{ Credits}] 

Graduation Requirements: 
\[\text{UTME } = 147\] 
\[\text{DE } = 115\] 

Total = 32 Credits 

FACULTY OF MANAGEMENT SCIENCES 

Dean’s Office 
J. O. Olujide  
B.Sc. (ABU); MBA (OAU); M.Phil., Ph.D. (Aix-Marseille)  
Professor & Dean 

Khadijat A. Yahaya  
B.Sc. (BUK); M.Sc., PGDE, Ph.D. (Ilorin); ACA  
Lecturer I &Sub Dean 

Salamat O. Abdullahi  
B.A. (Ed.), M.Ed., MPA (Ilorin)  
Faculty Officer 

Department of Accounting 

Olubunmi F. Osemene  
B.Sc. (OAU); MBA, (LAUTECH); M.Sc., Ph.D. (Ilorin); ACA  
Senior Lecturer & Ag. Head 

A. S. Kasum  
B.Sc. (BUK); M.Sc., Ph.D. (Ilorin); ACA  
Senior Lecturer
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. A. Olaniyi</td>
<td>B.Sc., M.Sc., MBA., Ph.D. (Ilorin); ACA</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Khadijat A. Yahaya</td>
<td>B.Sc. (BUK); M.Sc., PGDE, Ph.D. (Ilorin); ACA</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>T. O. Fagbemi</td>
<td>B.Sc., M.Sc., (Ilorin); Ph. D. (Lagos); ACA</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>E. A. Adigbole</td>
<td>B.Sc. (ABU); M.Sc. (Ilorin); FCA</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>W. B. Sanni</td>
<td>B.Sc., M.Sc. (Ilorin); FCA; ACIT</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>A. O. Noah</td>
<td>B.Sc. (EKSU); M.Sc. (Ilorin); ACA</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>J. A. Olaoye</td>
<td>B.Sc. (Ilorin); M.Sc. (Lagos)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>M. O. Salam</td>
<td>B.Sc. (EKSU); M.Sc. (BUK); MBA (Ilorin); ACA</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>O. A. Aliu</td>
<td>B.Sc. (Ilorin); M.Sc. (BUK); ACA</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>A. A. Abdurraheem</td>
<td>B.Sc. (Ibadan); M.Sc. (OOU); FCA; ACIT</td>
<td>Research Fellow I</td>
</tr>
<tr>
<td>Ramat T. Salman</td>
<td>B.Sc. (BUK); M.Sc. (Ilorin); Ph.D. (Utara); ACIT</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>S. Abogun</td>
<td>B.Sc. (Ilorin), M.Sc. (Lagos)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>D. Bamigbade</td>
<td>B.Sc. (Ilorin); M.Sc. (Lagos); ACA</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Z. Abdulbaki</td>
<td>B.Sc., (Maiduguri); M.Sc. (Lagos); ACA</td>
<td>Junior Research Fellow</td>
</tr>
<tr>
<td>A. Dauda</td>
<td>B.Sc. (Ilorin); ACA</td>
<td>Graduate Assistant</td>
</tr>
</tbody>
</table>
Department of Business Administration

J. O. Adeoti  B.Sc. (ABU); MBA., M.Sc., Ph.D. (Ilorin)  Senior Lecturer & Ag. Head

J. O. Olujide  B.Sc. (ABU); MBA (OAU); M.Phil., Ph.D. (Aix-Marseille)  Professor

Sidikat L. Adeyemi  B.Sc., MBA, (ABU); Ph.D. (Ilorin)  Professor

J. A. Oladipo  B.Sc. (ABU); PGDDP (Lagos); M.Sc. (Bradford); Ph.D. (Ilorin)  Senior Lecturer

S. B. Isiaka  B.Sc., MBA, M.Sc, Ph.D. (Ilorin)  Senior Lecturer

U. Gunu  B.Sc. (UDUS); M.Sc., Ph.D. (Ilorin)  Senior Lecturer

I. B. Kadiri  B.Sc., M.Sc. Econs, M.Sc Bus. Admin. (Ilorin); Ph.D. (UDUS)  Senior Lecturer

I. I. Aun  B.Sc., M.Sc., Ph.D. (Ilorin)  Lecturer II

A. Salman  B.Sc. (UDUS); M.Sc. (Ilorin)  Lecturer II

Falilat A. Abdul  B.Sc. (UDUS); M.Sc. (Ilorin)  Lecturer II

G. T. Oladipo  B. Sc., M.Sc. (Ilorin)  Lecturer II

I. Omolabi  B.Sc. (UDUS); M.Sc. (Ilorin)  Assistant Lecturer

Y.A. Olawale  B.Sc., MBA, M.Sc. (Ilorin)  Assistant Lecturer

O.J. Omolekan  B.Sc., M.Sc. (Ilorin)  Assistant Lecturer

J.R. Amosa  B.Sc. (Sokoto), M.Sc. (Lagos)  Assistant Lecturer
Department of Finance

M. A. Ijaiya  B.Sc., M.Sc. (BUK); Ph.D. (Ilorin)  Senior Lecturer & Ag. Head
S. B. Oludoyi  B.Sc. (Lagos); M.Sc. (Strathclyde); Ph.D. (Ibadan)  Senior Lecturer
M. A. Ajayi  B.Sc. (EKSU); M.Sc., MBA, Ph.D. (Ilorin)  Senior Lecturer
I. B. Abdullahi  B.Sc. (ABU); M.Sc. (BUK); Ph.D. (Ilorin)  Senior Lecturer
Rihanat I. Abdulkadir  B.Sc., MBA (Ilorin); M.Sc. (BUK); ACIB  Lecturer I
Oyebola F. Etudaiye-Muhtar  B.Sc., MBA (Ilorin); M.Sc. (Malaysia)  Lecturer II
A.T. Jimoh  B.Sc. (Ilorin)  Assistant Lecturer
R.O. Sakariyau  B.Sc. (Ilorin); ACIB  Assistant Lecturer
W.O. Ibrahim  B.Sc. (Ilorin)  Graduate Assistant

Department of Marketing

R.A. Gbadeyan  B.Sc., MBA (ABU); M.Sc., Ph.D. (Ilorin)  Senior Lecturer & Ag. Head
J.A. Bamiduro  B.Com (Concordia, Canada); MBA (McGill, Canada); Ph.D. (Ilorin)  Senior Lecturer
M.A. Aremu  B.Sc., M.Sc., Ph.D. (Ilorin), PGDCS  Senior Lecturer
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y. I. Mustapha</td>
<td>B.Sc., MBA (UDUS); M.Sc. (Ilorin); Ph.D. (UDUS)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>K. A. Bello</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Ebun O. Imouokome</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Mulikat Abulraheem</td>
<td>B.Sc. (ABU); M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>A.G. Ahmed</td>
<td>B.Sc. (Ilorin); MBCL (BUK)</td>
<td>Graduate Assistant</td>
</tr>
<tr>
<td>S. O. Oyedele</td>
<td>B.Sc. (UDUS); MPA (Ilorin); M.Sc. (OAU)</td>
<td>Senior Lecturer/ Coordinator</td>
</tr>
<tr>
<td>E. M. Osezua</td>
<td>B.Sc. M.Sc. (Benin); Ph.D. (OAU)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>M. L. Bello</td>
<td>B.Sc. M.Sc. (Maiduguri)</td>
<td>Lecturer 1</td>
</tr>
</tbody>
</table>

**Department of Industrial Relations & Personnel Management**

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. B. Isiaka</td>
<td>B.Sc., MBA., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer &amp; Ag. Head</td>
</tr>
<tr>
<td>N. S. Aremu</td>
<td>B.Sc. (BUK); M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>A. P. Abogunrin</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>A.S. Abdullah</td>
<td>B.Sc. (Al-Hikmah); M.Sc.(Glasgow)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>M. O. Aliyu</td>
<td>B.Sc. (BUK)</td>
<td>Graduate Assistant</td>
</tr>
</tbody>
</table>

**Department of Public Administration**

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>S. O. Oyedele</td>
<td>B.Sc. (UDUS); MPA (Ilorin); M.Sc. (OAU)</td>
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<tr>
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<tr>
<td>M. L. Bello</td>
<td>B.Sc. M.Sc. (Maiduguri)</td>
<td>Lecturer 1</td>
</tr>
</tbody>
</table>
Department of Accounting

Course Description

B.Sc. Accounting

ACC 101 Basic Accounting Concepts 3 Credits
45h (T); C

ACC 102 Basic Cost Accounting 3 Credits
45h (T); C

ACC 104 Financial Accounting Theory I 3 Credits
45h (T); C

ACC 121 Mathematics for Accounting I 3 Credits

**ACC 122 Mathematics for Accounting II**


45h (T); C

**ACC 201 Principles of Accounting**


45h (T); C

**ACC 204 Financial Accounting Theory II**


45h (T); C

**ACC 205 Cost Accounting**

ACC 214  Management Accounting I  3 Credits
costing and contribution analysis. Relevant costing. Introduction to accounting control systems: standard costing and budgetary
control. Preparation of budgets. Basic variance analysis.

ACC 224  Introduction to Computer Science  3 Credits
Central Preparation equipment: Keypunch and Sorter. Data transmission, nature, speed and error detection. Data capture and
validation including error detection. Systems analysis and design. Programming process, problem definition, flowcharting and
decision table.

ACC 226  Mathematics for Accounting III  3 Credits
Algebraic and transcendental functions. Differential calculus: limits and continuity and derivation from first principles. Total
differentiation: application to marginal analysis, cost functions and indifference curves. Maximization and minimization. Partial
differentiation with application to marginal analysis and comparative statistics. Integral calculus: application to marginal/total
functions, producer and consumer surplus. Exponential and logarithmic functions. Differential equations. Permutation and
combination. Simple sequences and series: finite and infinite, convergent and divergent series.

ACC 233  Statistics for Accounting I  3 Credits
Elementary sampling theory. Statistical decision theory: test of hypotheses for small and large samples, chi-square distribution,
tests of goodness of fit and distribution. Linear regression, correlation theory and index numbers. Time series and analysis of time
series.

ACC 296  Industrial Experience  1 Credit
A two month supervised attachment to the office or department of accounting in an organization. Each student is to submit a
written report of daily activities for evaluation and grading by the Department.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACC 301</td>
<td>Financial Accounting and Reporting</td>
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<tr>
<td></td>
<td>Company accounting: types of capital,</td>
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<td>issue of shares and redemption of</td>
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<td>preference shares, publication of</td>
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<td>accounts. The disclosures requirements</td>
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<td>of the Company and Allied Matters Act</td>
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<td>1990 (CAMA) and International Financial</td>
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<td>Reporting Standards (IFRS). Home and</td>
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<td></td>
<td>overseas branch accounts and departmental</td>
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<td>accounts. Specialized accounts:</td>
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<td>investment accounts, container accounts</td>
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<td>and royalty accounts, accounts of</td>
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<td>building societies, insurance</td>
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<td></td>
<td>companies, banks and pensions and</td>
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<td>provident funds.</td>
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<td><strong>45h (T); C PR: ACC 201 and 203</strong></td>
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<tr>
<td>ACC 302</td>
<td>Advanced Financial Accounting and</td>
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<td>Reporting</td>
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<td>Advanced partnership accounts including</td>
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<td>Behavioural aspect of accounting.</td>
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<td>**Company reconstruction. Liquidation</td>
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<td>and bankruptcy.</td>
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<td><strong>45h (T); C PR: ACC 301</strong></td>
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<tr>
<td>ACC 303</td>
<td>Financial Accounting Theory III</td>
<td>3</td>
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<tr>
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<td>The role of theory in financial</td>
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<td>accounting. Accounting methodology and</td>
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<td>Construction and validation income,</td>
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<td>capital and value. Nature of income and</td>
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<td>consumption. Views of Fishers and Hicks</td>
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<td>compared. <em>Hicks ex-post and ex-ante</em></td>
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<td>measures of income and the conventional</td>
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<td>accounting definition of income.</td>
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<td>Relationship between income and value.</td>
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<td><strong>45h (T); C</strong></td>
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<tr>
<td>ACC 305</td>
<td>Quantitative Analysis</td>
<td>3</td>
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<tr>
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<td>Techniques of operations research and</td>
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<td>applications in accounting and finance.</td>
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<td>Decision making models. Operations</td>
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<td>limitation. Inventory control model:</td>
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<td>EOQ applications and economic re-order</td>
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<td>point. Mathematical Programming. Linear</td>
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<td>programming formulation: graphical</td>
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<td>solution, simplex algorithm, algebraic</td>
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<td>optimality: stepping-stone algorithm</td>
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<td>characteristics, formulation and</td>
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<tr>
<td>ACC 308</td>
<td>Public Sector Accounting</td>
<td>3</td>
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<tr>
<td></td>
<td>Introduction to public Sector</td>
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<td>Accounting. Distinction between Public</td>
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<td>and Private Sectors. Basic accounting</td>
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<td>for not-for-profit (NFP) organization.</td>
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<td>Classification of NFP. Basic</td>
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<td>Accounting in Nigeria, the Treasury</td>
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<td>Audit Department. Consolidated Revenue</td>
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<td>Fund, capital and development fund.</td>
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<td>Financial accounting and analysis use of</td>
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<td>self-accounting system, fund</td>
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<td>uniforms for transactions.</td>
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</table>

45h (T); C

ACC 310 Principles and Practice of Auditing I

45h (T); C

ACC 323 Statistics for Accounting II

45h (T); C PR: ACC 226

ACC 324 Application of Computer to Accounting
Introduction to BASIC programming. Data types: constant and variables. Statement types: assignment, input-output and control statements. Accounting and Auditing programmes and packages

45h (T); C

ACC 398 Research Methods

45h (T); C PR: ACC 233
<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>ACC 401</td>
<td>Management Accounting II</td>
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<td><strong>45h (T); C PR: ACC 308</strong></td>
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<tr>
<td>ACC 402</td>
<td>Management Accounting III</td>
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<td><strong>45h (T); C</strong></td>
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<td>ACC 403</td>
<td>Nigerian Taxation I</td>
<td>3</td>
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<td><strong>45h (T); C, PR: ACC 301 and 302</strong></td>
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<tr>
<td>ACC 404</td>
<td>Nigerian Taxation II</td>
<td>3</td>
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<td><strong>45h (T); C</strong></td>
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<tr>
<td>ACC 408</td>
<td>Management Information Systems</td>
<td>3</td>
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<td><strong>45h (T); C</strong></td>
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<tr>
<td>ACC 409</td>
<td>Principles and Practice of Auditing II</td>
<td>3</td>
</tr>
</tbody>
</table>

45h (T); C

**ACC 418  International Accounting and Reporting**  
3 Credits  
45h (T) ; C

**ACC 499  Project**  
6 Credits  
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.  
270h (P); C

### SUMMARY

<table>
<thead>
<tr>
<th>Level</th>
<th>100 Level</th>
<th>200 Level</th>
<th>300 Level</th>
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</thead>
<tbody>
<tr>
<td>Compulsory Courses:</td>
<td>ACC 101 (3), 102 (3), 104(3), 121(3), 122 (3), FIN 112(3) = 18 Credits</td>
<td>ACC 201 (3), 204(3), 205 (3), 214 (3), 224 (3), 226 (3), 233(3), 296 (1), FIN 201 = 28 Credits</td>
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<tr>
<td>Required Courses:</td>
<td>BUS 103 (3), ECN 101 (3), 102 (3), 103 (2), GNS 111(2), 112 (2), POS 111 (3) = 18 Credits</td>
<td>ECN 201 (2), 203 (2), GNS 211 (2), 212 (2) = 8 Credits</td>
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<tr>
<td>Required Courses:</td>
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<tr>
<td>Direct Entry:</td>
<td>BUS 103(3), POS 111 (3), GNS 111(2), GNS 112 (2) = 10 Credits</td>
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</table>
Compulsory Courses: AC 301 (3), 302 (3), 303 (3), 305 (3), 308 (3), 310 (3), 323 (3), 324 (3), 398 (3), 312 (3), 345 (3), 346 (3) = 36 Credits

Required Courses: BUS 321 (3), GNS 311 (2), GSE 301 (3) = 8 Credits
Total = 44 Credits

400 Level

Compulsory Courses: ACC 401 (3), 402 (3), 403 (3), 404 (3), 408 (3), 409 (3), 418 (3), 499 (6), FIN 413 (3), 414 (3) = 33 Credits

Required Courses: BUS 429 (3) = 3 Credits
Total = 36 Credits

Graduation Requirements

UTME = 152 Credits
DE = 126 Credits
B.Sc. Business Administration

BUS 101 Organization of Business                          3 Credits
Definition of business terminologies. Basic legal forms of Business organisations. Alternative classifications and the who benefits test. The manager’s job. Managerial functions: planning; staffing; directing; leading and controlling.
45h (T); C

BUS 102 Business Communication                              3 Credits
Basic principles of communication. Skills in writing: letters; memos; reports; proposals; applications and resUTME. Business speaking skills: informing; instructing; job interviewing; selling; persuading and motivating.
45h (T); C

BUS 103 Introduction to Management and Society                            3 Credits
45h (T); C

BUS 105 Mathematics for Management I                            3 Credits
Mathematics and symbolic logic. Inductive and deductive systems. Concepts of sets, mappings and transformation. Introduction to complex numbers. Introduction to vectors, matrix and determinants. Discrete and continuous variables. Straight line in various forms. The circle, trigonometric functions, logarithmic functions and exponential.
45h (T); C

BUS 106 Mathematics for Management II                            3 Credits
45h (T); C

BUS 107 Statistics for Management I                                 3 Credits
BUS 108 Introduction to Computer Science I
3 Credits

BUS 201 Production Management
3 Credits

BUS 202 Elements of Marketing I
2 Credits

BUS 203 Elements of Marketing II
2 Credits
Marketing strategies in relation to pricing. Channels of distribution, promotional mix elements and products element. Marketing in service organisation. Appraising the marketing effort.

BUS 204 Industrial Relations I
3 Credits
The evolution of Industrial Relations. Pre-industrial and Industrial forms of Employment. Unitarism and theory in industrial relations. Trade Unions: Types, Rationale and Development. Collective Bargaining. Strikes, Lockouts, and Interest Arbitration; Collective Agreement and Grievance Arbitration; Role of the State; Employment relation;

BUS 205 Elementary Calculus for Management
3 Credits
**BUS 206**  
Introduction to Psychology  
3 Credits  
Psycho-biological basis of behaviour. Survey of the major topics. Theories and research of contemporary psychology.  
45h (T); E

**BUS 207**  
Introduction to Business Environment  
3 Credits  
45h (T); E

**BUS 209**  
Introduction to Financial Management  
3 Credits  
45h (T); C

**BUS 210**  
Statistics for Management II  
3 Credits  
45h (T); C

**BUS 211**  
Introduction to Business  
3 Credits  
45h (T); C

**BUS 212**  
Introduction to Computer Science II  
3 Credits  
Introduction to Basic programming. Data type: constant and variables. Statement types: assignment, input-output and control statements.  
45h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BUS 301</td>
<td>Human Resource Management</td>
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<td>30h (T); C</td>
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<tr>
<td>BUS 302</td>
<td>Management Theory I</td>
<td>2</td>
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<tr>
<td>BUS 303</td>
<td>Management Theory II</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>BUS 305</td>
<td>Promotions</td>
<td>3</td>
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<td>45h (T); E</td>
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<td>BUS 306</td>
<td>Consumer Behaviour</td>
<td>3</td>
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<td>45h (T); E</td>
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<td>BUS 307</td>
<td>Distribution and Sales Management</td>
<td>3</td>
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<td>Sales management and control. Determining sales policies. Formulating personal selling strategy and organising the sales effort. Sales executive jobs and distributive network relations. Sales force management. Planning and conducting sales training</td>
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</tbody>
</table>
programme. Motivating the individual sales person. Evaluating and supervising sales personnel, sales budget, analysis and control.

**BUS 308**  
**Industrial Relations**  
3 Credits  
Concept of Industrial Relations. Trade Union characteristics. Industrial relations laws in Nigeria. Types of unions. Internal structures and management of central labour organization and international affiliations. Unions solidarity and check-off systems. Collective bargaining, industrial dispute settlement. State and industrial relations. Comparative industrial relations.

**BUS 309**  
**Organizational Behaviour**  
3 Credits  

**BUS 312**  
**Personnel Management**  
3 Credits  
Functions and meaning of work. Work instrumentation and orientations. Theories of personnel management. Motivation. Assessment methods and application to selection, leadership, conformity, compliance, social influences, problem solving and decision making. Attitudes, prejudices, stereotyping and resistance to change.

**BUS 313**  
**Management Science I**  
3 Credits  

**BUS 314**  
**Management Science II**  
3 Credits  

**BUS 315**  
**International Marketing**  
3 Credits

**BUS 316**  
**Elements of Purchasing**  
3 Credits

**BUS 317**  
**Growth of Modern Enterprises**  
3 Credits
Modern enterprises and their internationalization. Public corporation and nationalized industry. Investment processes and sources of capital from entrepreneurs to modern professional managers. Labour organizations, technological change, capital arrangement and mergers.

**BUS 318**  
**Principles of Insurance**  
3 Credits

**BUS 319**  
**Management Accounting**  
3 Credits

**BUS 320**  
**Financial Management**  
2 Credits
<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>BUS 321</td>
<td>Elements of Management</td>
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<td>BUS 322</td>
<td>Business Interface with Politics &amp; Government</td>
<td>3</td>
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<td>BUS 323</td>
<td>Research Methods</td>
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<td>BUS 401</td>
<td>Business Policy I</td>
<td>3</td>
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<td>BUS 402</td>
<td>Business Policy II</td>
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<td>BUS 403</td>
<td>Analysis for Business Decisions</td>
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<td>Elements of decision analysis, types of decision situation and decision trees. Operational research approach to decision analysis. Systems and system analysis. Modeling in operation research (OR) and simulations. Mathematical programming: transportation</td>
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</table>
model, assignment model, conflict analysis and games theory. Project management. Inventory management, replacement models, line balancing, routing and sequencing.

45h (T); C

**BUS 404 International Economics**
3 Credits

45h (T); C

**BUS 405 Corporate Planning**
3 Credits

45h (T); E

**BUS 406 Advanced Management Theory**
3 Credits

45h (T); E

**BUS 407 Comparative Management I**
2 Credits

30h (T); E

**BUS 408 Comparative Management II**
2 Credits

30h (T); E

**BUS 409 Marketing Research**
3 Credits
Application of analytical tools to marketing problems. Marketing research and decision making. Research design, value and cost of information. Sampling. Data collection: questionnaire design, survey, experimentation, observation, and interviews. Data
Sales forecasting and application of marketing research techniques to product, price, promotion and distribution. Evaluation and reporting of ethical issues in marketing research.

**BUS 410 Marketing Management**
3 Credits
Application of the fundamental principles of management to the marketing functions. Organization, planning, control and coordination, and interaction of the whole marketing functions. Marketing mix: product, physical, distribution, pricing and promotion. Marketing and social responsibility. Consumerism.

**BUS 411 Trade Unions and Employers’ Associations**
3 Credits
Historical development. Structure, role and management of employers associations and trade unions such as MAN, NLC, TUC, NUBIFE in Nigeria.

**BUS 412 Manpower Recruitment and Selection**
3 Credits

**BUS 413 Manpower Training and Development**
3 Credits

**BUS 414 Manpower Remuneration and Benefits**
3 Credits

**BUS 417 Physical Distribution**
3 Credits
BUS 421  Mathematical Programming  3 Credits
Linear programming, non-linear programming, integer and goal programming.
45h (T); E

BUS 422  Operations Scheduling  3 Credits
45h (T); E

BUS 423  Operations Planning and Control  3 Credits
Aggregate planning methods. Production and work force planning. Integration of planning and scheduling levels in hierarchical systems. Determination of capacity in service systems, service designs and service mix problems.
45h (T); E

BUS 424  Operations Management  3 Credits
45h (T); E

BUS 425  Statistical Quality Control  3 Credits
45h (T); E

BUS 426  Probability Theory and Probability Distribution  3 Credits
Introduction to Probability theory distributions: binomial, Poisson, exponential and normal.
45h (T); E

BUS 427  Stochastic Processes  3 Credits
45h (T); E

BUS 428  Dynamic Programming  3 Credits
Definition and formulation of dynamic programming. Review of solution steps for dynamic programming, knapsack problem, the stagecoach problem and other prototype dynamic programming problems.
45h (T); E

BUS 429 Entrepreneurial Development 3 Credits
45h (T); C

BUS 430 Small Business Management 3 Credits
Small Firm characteristic and trend, Start-up situation and development of business plans. Venture and expansion capital, cost and benefits of different sources of problem and prospect of small business generally and of small scale industries in particular. Case studies of entrepreneurs and small capital firms, (Owners/Managers). Students’ actual proposals made to panel of venture capital firms, Banks and other financial institutions.
45h (T); C

BUS 431 Nigerian Business Environment 2 Credits
The basis objectives with the course are to examine the legal, social, political and economic framework within which business organization must operate in the Nigeria environment. Business of the pervasive influence of globalization and the reduction of distance between nations, their value systems language. International business environment will be explored.
30h (T); C

BUS 499 Project 6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission a project.
270h (P); C
SUMMARY

100 Level

Compulsory Courses: BUS 101 (3), 102 (3), 103 (3), 105 (3), 106 (3), 107 (3) 108 (3)
= 21 Credits

Required Courses: ACC 101 (3), 102 (3), ECN 101 (3), 102 (3), GNS 111 (2), 112 (2)
= 16 Credits

Total = 37 Credits

200 Level

Compulsory Courses: BUS 201 (3), 202 (2), 203 (2), 209 (3), 210 (3), 211 (3), 212 (3)
= 19 Credits

Required Courses: ACC 201 (3), 205 (3), ECN 201 (2), 203 (2), GNS 211 (2) 212 (2)
= 14 Credits

Elective Courses: Students are to take at least 3 Credits from the following:
BUS 204 (3), 206 (3), 207 (3)
= 3 Credits

Total = 36 Credits

Direct Entry Students: GNS 111 (2), 112 (2), ACC 101(3), ACC 102 (3), BUS 205 (3), 107 (3)
= 16 Credits

300 Level

Compulsory Courses: BUS 301 (2), 302 (2), 303 (2), 319 (3), 320 (2) BUS 321 (3), 322 (3), 323 (2)
= 19 Credits

Required Courses: FIN 345 (3), 346 (3) GSE 301 (3), GNS 311 (2)
= 11 Credits

Elective Courses: Students are to take at least 6 Credits from the following:
= 6 Credits

Total = 36 Credits

400 Levels
Compulsory Courses: BUS 401 (3), 402 (3), 403 (3), 404 (3), 429 (3), 430 (3), 431 (2), 499 (6)
= 26 Credits

Elective Courses: At least 10 Credits to be taken from BUS 405 (3), 406 (3), 407 (2), 408 (2)

Total= 36 Credits

Graduation Requirements
UTME = 145 Credits
DE = 124 Credits

Department of Finance

Course Description

B.Sc. Finance

FIN 112 Banking and Finance 3 Credits
45h (T); C

FIN 121 Mathematics for Finance I 3 Credits
45h (T); C
FIN 122  Mathematics for Finance II  3 Credits
45h (T); C

FIN 201  Business and Corporate Finance  3 Credits
45h (T); C

FIN 202  Financial Administration  3 Credits
45h (T); C

FIN 212  Law Relating to Banking  3 Credits
45h (T); C

FIN 224  Introduction to Computer Science  3 Credits
History and development of computer technology. The why and how of computers. Computer types: analog, digital, hybrid. Central Preparation equipment: Keypunch and Sorter. Data transmission, nature, speed and error detection. Data capture and
validation including error detection. Systems analysis and design. Programming process problem definition, flowcharting and decision table.

45h (T); C

FIN 226 Mathematics for Finance III
3 Credits

45h (T); C

FIN 233 Statistics for Finance I
3 Credits
Elementary sampling theory. Statistical decision theory: test of hypotheses for small and large samples, chi-square distribution, tests of goodness of fit and distribution. Linear regression, correlation theory and index numbers. Time series and analysis of time series.

45h (T); C

FIN 295 Industrial Experience
1 Credit
A two month supervised attachment to a bank, office or department of finance or accounting in an organization.

45h (P); C

FIN 311 Monetary and Banking Policy
3 Credits
Objectives and tools of monetary policy. Control principles of good lending. Liquidity and matching principles. Short, medium and long term lending. Armchair and dynamic banking. Contemporary problems of monetary and banking policies in Nigeria.

45h (T); C

FIN 312 Business Finance II
3 Credits

45h (T); C
FIN 313 Merchant Banking 3 Credits
Evaluation of merchant banking. Distinguishing features and functions of merchant banks. Laws and regulations guiding merchant banking. Merchant bank methods and processes. Structures and performance of merchant banks in Nigeria. Syndication. 45h (T); C

FIN 314 Comparative Banking 3 Credits

FIN 316 The Nigerian Financial System 3 Credits

FIN 323 Statistics for Finance II 3 Credits

FIN 324 Application of Computer to Finance 3 Credits
Introduction to BASIC programming. Data types: constant and variables. Statement types: assignment input-output and control statements.

**FIN 345 Business Law**
3 Credits

**FIN 346 Company Law**
3 Credits

**FIN 398 Research Methods**
3 Credits

**FIN 401 Practice of Banking I**
3 Credits

**FIN 413 Financial Management**
3 Credits

45h (T); C, PR: ACC 301

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FIN 414</td>
<td>Investment Analysis</td>
<td>3</td>
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<tr>
<td></td>
<td>Basic decision models for capital budgeting.</td>
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<td></td>
<td>Cost and choice of capital structure.</td>
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<td>Short and long term financing models for stock</td>
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<td>market behavior.</td>
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<td>Short and long term planning and corporate strategy.</td>
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<td>Assessment of performance and financial ratios:</td>
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<td>internal, external and interfirm comparisons.</td>
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<td>Risks and uncertainty.</td>
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<td>Replacement decisions.</td>
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<td>45h (T); C</td>
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<tr>
<td>FIN 415</td>
<td>International Finance I</td>
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<tr>
<td></td>
<td>Basis for trade.</td>
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<td>Theory of comparative costs and advantage.</td>
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<td>Impediments to trade.</td>
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<td></td>
<td>Balance of payments: structure, interpretations,</td>
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<td>problems of definition, causes of imbalance,</td>
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<td>methods of adjustment and analysis of official intervention.</td>
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<td>Stabilization funds and exchange controls.</td>
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<td>Payment abroad: forms of making payment abroad,</td>
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<td>banking services and facilities available.</td>
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<td>Problems and risks of importing and exporting:</td>
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<td>official and un-official assistance available to</td>
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<td>overcome the problems.</td>
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<td>Theory and practice of foreign exchange: spot</td>
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<td>and forward rates, fixed and flexible exchange</td>
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<td>speculations.</td>
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<td>45h (T); C</td>
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<tr>
<td>FIN 416</td>
<td>International Finance II</td>
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<td></td>
<td>International monetary arrangements. Theory of</td>
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<td>international monetary system. Optimum currency</td>
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<td>areas and regional payments.</td>
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<td>Obligations under existing international treaties:</td>
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<td>IMF, World Bank, GATT. Central Banking.</td>
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<td>African Currency Areas.</td>
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<td>Sterling Block.</td>
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<td>Dissolution of African Currency Boards.</td>
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<td>Current issues in international finance: The role</td>
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<td>of gold and reserve currencies in international liquidity.</td>
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<td>Special drawing rights.</td>
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<td>Analysis of suggested reforms of international liquidity.</td>
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<td>45h (T); C, PR: FIN 415</td>
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<tr>
<td>FIN 418</td>
<td>Management Information System</td>
<td>3</td>
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<tr>
<td></td>
<td>History and fundamentals of data processing.</td>
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<td>Conventional data processing: manual and</td>
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<td>mechanized methods.</td>
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<td>Classification of systems and their relative</td>
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<td>merits, closed and open loop systems.</td>
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<td>Organization of MIS including using mechanical</td>
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<td>and electronic accounting machines, flow</td>
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<td>charting and principles of systems design and</td>
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<td>documentation.</td>
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<td>Managerial uses of information output.</td>
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<td>Information needs of management and design of MIS.</td>
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<td>Computer application in MIS.</td>
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<td>Business systems.</td>
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<td>Hierarchical structures of organization and</td>
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<td>sub-optimization issues.</td>
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<td>45h (T); C</td>
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</tbody>
</table>
FIN 421 Capital Market and Portfolio Theory 3 Credits
45h (T); C

FIN 424 Bank Lending and Administration 3 Credits
45h (T); C

FIN 426 Practice of Banking II 3 Credits
Loans administration and policy in banks. Interpretation of balance sheets and management accounting for the lending bankers. Negotiable instruments and perfection of securities to secure bankers advance payment as guarantees. Trusteeship and bankruptcy procedures.
45h (T); C(PR: FIN 401)

FIN 499 Project 6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission a project.
270h (P); C

SUMMARY

100 Level
Compulsory Courses: ACC 101 (3), 102 (3), 104 (3), FIN 112, (3)121 (3), 122 (3) = 18 Credits
Required Courses: ECN 101 (3), 102 (3), 103 (2), BUS 103 (3), POS 111 (3), GNS 111 (2), 112 (2) = 18 Credits
Total = 36 Credits

200 Level
Compulsory Courses: FIN 201 (3), 202 (3), 212 (3), 224 (3), 226 (3), 233 (3), 295 (1), ACC 201 (3), 204 (3), 205 (3), 214 (3)
= 31 Credits

Required Courses: ECN 201 (2), 203 (2), GNS 211 (2), 212 (2)
= 8 Credits
Total = 39 Credits

Direct Entry Students: BUS 103 (3), POS 111 (3), GNS 111(2), 112(2)
= 10 Credits

300 Level

Compulsory Courses: FIN 311 (3), 312 (3), 313 (3), 314 (3), 316 (3), 323 (3), 324 (3), 345 (3), 346 (3); 398 (3); ACC 301 (3), 302 (3)
= 36 Credits

Required Courses: BUS 321 (3), GNS 311 (2), GSE 301 (3)
= 8 Credits
Total = 44 Credits

400 Level

Compulsory Courses: FIN 401 (3), 413 (3), 414 (3), 415 (3), 416 (3), 418 (3), 421 (3), 424 (3), 426 (3), 499 (6); ACC 424 (3)
= 36 Credits

Required Course: BUS 429 (3)
= 3 Credits
Total = 39 Credits

Graduation Requirements

UTME = 158 Credits
DE = 132 Credits
Department of Marketing

Course Description

B.Sc. Marketing

MKT 101 Introduction to Marketing 2 Credits
Marketing: relationships between marketing and other related areas. Role of commerce and marketing in the production process. Meaning of market and marketing. Marketing: Arts or Science? Developments in marketing revolution covering various marketing areas.
30h (T); C

MKT 103 Introduction to Management and Society 3 Credits
45 h (T); C

MKT 104 Introduction to Statistics for Marketing 3 Credits
Elementary probability distributions: normal, binomial, poisson and hyper geometric. Elementary Sampling Theory: student t-distribution, tests of hypotheses for small and large sample, chi-square distribution and test of goodness of fit. Linear Regression, correlation theory, and index numbers. Time series and its analysis.
45h (T); C

MKT 105 Mathematics for Management I 3 Credits
Mathematics and symbolic logic, inductive and deductive systems, concepts of sets, mappings and transformation. Introduction to: complex numbers, vectors, matrices and determinants. Discrete and continuous variables. Straight line in various forms. Circle, trigonometric functions, logarithmic functions and exponential functions.
45h (T); R

MKT 106 Nigerian Marketing System and Commercial Policy 2 Credits
30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MKT 108</td>
<td>Integrated Marketing Communications</td>
<td>2</td>
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<tr>
<td></td>
<td>Communication tools of advertising, personal selling, public relations, publicity, and sales promotions. Steps in developing effective communication process. Communication decisions: target audience, response sought, message, media, sources, attributes and feedback, and relationship between advertising and other communication tools.</td>
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<td>30h (T); C</td>
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<tr>
<td>MKT 201</td>
<td>Elements of Marketing I</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>MKT 202</td>
<td>Elements of Marketing II</td>
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<td>Marketing strategies: pricing, channels of distribution, promotional mix elements, and products element. Marketing in service organisations. Appraising the marketing effort.</td>
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<td>30h (T); C</td>
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<td>MKT 204</td>
<td>Applications of Computer to Marketing</td>
<td>3</td>
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<td>Introduction to Basic programming. Data type: constant and variables. Statement types: assignment, input-output and control statements.</td>
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<td>45 h (T); C</td>
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<tr>
<td>MKT 205</td>
<td>Financial Management</td>
<td>3</td>
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<td></td>
<td>45h (T); C</td>
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<tr>
<td>MKT 206</td>
<td>The Marketing Environment</td>
<td>3</td>
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<td>Firm’s macro environment: analyzing needs and trends, identifying and responding to the major macro environmental forces. Firm’s micro environment. Environmental analysis: scanning, scenarios, constructing scenarios, and using scenarios. Responding to the marketing environment.</td>
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<td>45h (T); C</td>
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<tr>
<td>MKT 208</td>
<td>Mathematics for Marketing II</td>
<td>3</td>
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<tr>
<td></td>
<td>Limits and Continuity. Differentiation and its applications to management. Integration with applications to management. Constrained optimization. Exponential and logarithmic</td>
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</tbody>
</table>
functions. Difference equations.

45h (T); C

MKT 301 **Consumer Behaviour**
3 Credits

45h (T); C

MKT 302 **Marketing Logistics and Sales Management**
3 Credits
Distribution plans, and sales management. Distribution component: structure of markets, benefits of channel structures, functions performed by channel members, channel control and conflicts. Sales management: sales force recruitment and selection, sales force training and motivation, sales territories and routine, supervision, sales organization. Inventory management methods: Economic Order Quantity (EOQ), modes of transportation in Nigeria, and warehousing.

45h (T); C

MKT 303 **New Product Development and Innovations**
3 Credits

45h (T); C

MKT 304 **Principles of Purchasing and Supply**
3 Credits
Skills relevant to acquiring goods and raw materials for both private and public organizations. Meaning of purchase, purchasing organisation, purchasing policy, procedures and documentation. Various rights in purchasing: right quality, right quantity at the right time, and right price. Supplier sourcing, evaluation, and negotiation.

45h (T); C

MKT 305 **Price and Price Management**
2 Credits
Various considerations and approaches to pricing. Internal and external factors affecting price. The impact of cost on price. Market structures’ influence on price. Comparison and evolution of general approaches to price setting.

30h (T); C

MKT 306 **Research Methods**
3 Credits
Scientific investigation, information gathering, analysis and interpretation of data dealing with business and social problems in Nigeria. Problem identification, data gathering, analysis, and report writing.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MKT 308</td>
<td>Marketing of Primary Products</td>
<td>3</td>
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<tr>
<td></td>
<td>Agricultural products and mineral resources: identification and marketing. Problems of marketing primary products. Marketing strategies of agricultural and petroleum products in Nigeria. Application of marketing variables to the marketing of primary products.</td>
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<tr>
<td>MKT 310</td>
<td>Wholesale and Retail Marketing</td>
<td>2</td>
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<td>30</td>
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<tr>
<td>MKT 401</td>
<td>Political Marketing</td>
<td>2</td>
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<td></td>
<td>Relationship between marketing and politics. Application of marketing concepts to politics. Broadening of marketing concept to non-commercial products. Introduction to democracy: liberal democracy, elements of multi-party democracy, analogies between political marketing and mainstream marketing; Elements of political marketing, marketing communications and political marketing</td>
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<td>30</td>
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<tr>
<td>MKT 402</td>
<td>Marketing Management</td>
<td>2</td>
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<tr>
<td>MKT 403</td>
<td>Analysis for Business Decisions</td>
<td>3</td>
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<td></td>
<td>Elements of decision analysis, Types of decision situation and decision trees. Operational research approach to decision analysis. Systems and systems analysis. Modeling in operations research (OR) and simulations. Mathematical programming models: transportation, assignment, conflict analysis, and games theory. Project management. Inventory, replacement, line balancing, routing and sequencing, and search models.</td>
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<tr>
<td>MKT 404</td>
<td>International Marketing and Export Management</td>
<td>2</td>
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</tbody>
</table>

30h (T), 45h (P); C

30h (T); C

**MKT 405  Marketing Research**  
3 Credits  
Application of analytical tools to marketing problem. Marketing research and decision making. Research design. Value and cost of information. Data, survey research and experimentation. Questionnaire design. Observation, interviews and projective technique. Sampling of data and data analysis. Sales forecasting and application of marketing research techniques to product, price, promotion and distribution. Evaluation and reporting of ethical issues in marketing research.

45h (T); C

**MKT 406  Strategic Marketing and Case Studies**  
2 Credits  

30h (T); C

**MKT 407  Entrepreneurial Development**  
3 Credits  

45h (T); C

**MKT 408  Marketing of Services and Relationship Marketing**  
3 Credits  
Marketing services: definition, uniqueness, and characteristics. Identify additional marketing considerations for services. Strategies for marketing services: quality, differentiation and productivity. Total relationship marketing with the aim of attracting and retaining customers. Drivers of customers: equity, brand equity and relationship equity.

45h (T); E

**MKT 409  Marketing Information System**  
2 Credits  
Role of information technology in an organization, with special reference to marketing activities. Nature, history, types and characteristics of computer. Definition of computer hardware and hardware configuration. Nature and classification of computer software. Meaning of data management and data management functions. Nature of data, information and general characteristics of
Role of information in marketing. Methods of data processing: manual, mechanical, electro-mechanical and electronic. Types and data processing system: real time, batch, on-line, interactive, time sharing, centralized and decentralized.

30h (T); C

MKT 410  Marketing Planning and Control  3 Credits
45h (T); E

MKT 412  Pricing Policies  3 credits
Pricing quality issue; dealing policies; multi-plant pricing; peak and load pricing; franchising resale price maintenance, competitive bidding new product pricing product line product and the marketing mix.
45h (T); E

MKT 413  Industrial Marketing  2 Credits
30h (T); E

MKT 415  Advertising Management  2 Credits
Advertising models and their effects on sales. Relationship between advertising managements, economics and behavioural sciences. Use of advertising models by managers to make decisions regarding advertising budgets, copy design and media selection.
30h (T); E

MKT 499  Project  6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department culminating in the submission of a project.
270h (P); C
### SUMMARY

#### 100 Level

**Compulsory Courses:**
- MKT 101 (2), 104 (3), 106 (2), 108 (2)  
  = 9 Credits

**Required Courses:**
- BUS 101 (3), 102 (3), MKT 103 (3), 105 (3), ACC 101(3)  
- 102 (3), ECN 101 (3), 102 (3), GNS111 (2), 112 (2)  
  = 28 Credits

**Total**  
= 37 Credits

#### 200 Level

**Compulsory Courses:**
- MKT 201 (2), 202 (2), 204 (3), 205 (3), 206 (3), 208 (3)  
  = 16 Credits

**Required Courses:**
- BUS 201 (3), 206 (3), ACC 201 (3), 205 (3), ECN 201 (2), 203 (2),  
- GNS 211 (2), 212 (2)  
  = 20 Credits

**Total**  
= 36 Credits

**Direct Entry Students:**
- GNS 111 (2), 112 (2), MKT 104(3)  
  = 7 Credits

**Total**  
= 43 Credits

#### 300 Level

**Compulsory Courses:**
- MKT 301 (3), 302 (3), 303 (3), 304 (3), 305 (2), 306 (3), 308 (3), 310 (2)  
  = 22 Credits

**Required Courses:**
- BUS 301 (2), 319 (3), 322 (3), FIN 345 (3), 346 (3), GSE 301 (2),  
- GNS 311 (2)  
  = 18 Credits

**Total**  
= 40 Credits

#### 400 Level

**Compulsory Courses:**
- MKT 401 (2), 402 (2), 403 (3), 404 (2), 405 (3), 406 (2), 407 (3), 409 (2),  
  = 25 Credits

**Required Courses:**
- BUS 401 (3), 402 (3)  
  = 6 Credits

**Elective Courses:**
- Minimum of 6 credits from the following:
MKT 408 (3), 410 (3), 412 (3), 413 (2), 415 (2) = 6 Credits
Total = 37 Credits

Graduation Requirements
UTME = 150 Credits
DE = 120 Credits
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IRP 101</td>
<td>Introduction to Human Resource management</td>
<td>2</td>
</tr>
<tr>
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<td>30h (T); C</td>
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<tr>
<td>IRP 102</td>
<td>Industrial Organisations</td>
<td>2</td>
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<td>30h (T); C</td>
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<tr>
<td>IRP 104</td>
<td>Introduction to Psychology</td>
<td>2</td>
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<tr>
<td></td>
<td>Concepts of stress, perception, personality, communication, frustration, emotion and principles of learning in psychology. Philosophical basis of psychology. Growth of scientific psychology. Schools of psychology. Fields and careers in psychology in Nigeria. Concepts of personality, attitude and motivation.</td>
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<td>IRP 106</td>
<td>Elements of Management</td>
<td>3</td>
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<tr>
<td></td>
<td>Basic concepts in Management; management principles; functions of manager, planning and controlling, nature and purpose, span of management, departmentalization; line and staff authority; service department, staffing and directing, selection of managers; appraisal of managers; management development; nature of directing; motivation and leadership; controlling; the control process; control techniques; recent development in the control process; the Nigerian environment; management in Nigeria; challenges of indigenization; transferability of management systems.</td>
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<tr>
<td>IRP 201</td>
<td>Introduction to Industrial Relations I</td>
<td>3</td>
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<td>45h (T); C</td>
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</tbody>
</table>
IRP 202  Elements of Social Relations  
Introduction, analysis and description of social structure and dynamics of human society. Social stratification, social institution, culture, work organization, labour management relations and social change.  
45h (T); C

IRP 204  Organizational Theory and Behaviour  
45h (T); C

IRP 301  Theories of Industrial Relations  
Conceptualisation. Major theories: unitary, systems, conflict, social action and Maxist. Application of theories to the understanding of different industrial relations systems.  
45h (T); C

IRP 302  Labour and Human Resources Economics  
30h (T); C

IRP 303  Collective Bargaining  
30h (T); C

IRP 304  Human Resource Planning  
45h (T); C
IRP 305  
**Industrial Psychology**  
2 Credits  
30h (T); C

IRP 306  
**Trade Union and Employers’ Association**  
3 Credits  
Trade unions: origin and developments, role and functions in the work place and society at large, structure in the work place and society at large, as well as structure and government. Legal framework and regulation of trade unionism. Developments in the Nigerian trade union movement and international trade union movement. Trade unions and the political process. Employers’ Association: development, functions, and activities. Examination of national and international associations.  
45h (T); C

IRP 308  
**Labour Law**  
2 Credits  
30h (T); C

IRP 310  
**Industrial Experience and Applied Research**  
2 Credits  
Practice of industrial relations and personnel management. Students are to examine factors within industrial environments; this is to be done through attachments to organizations and/or through seminars to be organized by the Department. Practitioners of IR and HR will be invited to discuss and relate their experience as practitioners with students.  
30h (T); C

IRP 312  
**Multinational Human Resource Management**  
2 Credits  
Human resource management of multinational organisations operating in other countries apart from Nigeria. Balance between standardisation and differentiations of human resources policies and practices, employment, legislation, and trend toward harmonization. Human resource at national level, continent of diversity, and implementation for multinational organisation.  
30h (T); E

IRP 314  
**Labour Migrations**  
2 Credits

30h (T); E

IRP 401 Labour Policy and Administration 2 Credits
30h (T); C

IRP 402 Strategic Human Resources Management 2 Credits
Introduction, emerging trends in modern organisational management. Human resources critical evaluation. Strategy of employee involvement at work
30h (T); C

IRP 403 Training and Manpower Development 2 Credits
30h (T); C

IRP 404 Labour Market Analysis 2 Credits
Concept of labour market. Factors affecting demand and supply of labour. Importance of labour force participation rate. Labour work analysis. Technological change, labour market, and managerial relations. Monetarism and supply side economics.
30h (T); C

IRP 405 Motivation and Productivity 2 Credits
IRP 406  Compensation Management  2 Credits

IRP 407  International Labour Bodies  2 Credits
Emergence and roles of international bodies and agencies involved in employment relations: ILO, AU Labour Commission, OATUU and international trade union organisations. Impact of international labour organisations on industrial peace and fair labour practices.

IRP 408  Labour Relations and Administration in Nigeria  2 Credits
Labour and management relations in Nigeria: evolution, processes, and effects of public policies. Bodies involved in coordination and management of labour relations in Nigeria: Ministry of Labour and its agencies, and their interaction with other social partners in the employment relationship.

IRP 409  Comparative Industrial Relations  2 Credits

IRP 410  Dynamics of Diversity Management  2 Credits
Definition of concepts. Diversity: taxonomy; history; levels and dimensions, and organisational context (culture, climate and processes). Factors for increase in diversity and diversity awareness: globalisation, change in demography, mergers and acquisition. Differences among affirmative action. Equal opportunity and valuation of diversity. Managing diversity trends in Nigeria: implications for organizational success, morale, productivity, labour relations; job satisfaction and job commitments.
IRP 412  Ethics in Human Resource Management     3 Credits
45h (T); E

IRP 499  Project     6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department culminating in the submission of a project.
270h (P); C
### SUMMARY

#### 100 Level

**Compulsory Courses:**
- IRP 101 (2), 102 (2), 104 (2), 106 (3)  
  \[= 9 \text{ Credits}\]

**Required Courses:**
  \[= 28 \text{ Credits}\]

Total \[= 37 \text{ Credits}\]

#### 200 Level

**Compulsory Courses:**
- IRP 201 (3), 202 (3), 204 (3)  
  \[= 9 \text{ Credits}\]

**Required Courses:**
- GNS 211 (2), 212 (2), ECN 201 (2), 203 (2), ACC 201 (3), 205 (3), BUS 201 (3), 203 (2), 204 (3), 210 (3), 212 (3)  
  \[= 28 \text{ Credits}\]

Direct Entry Students:
- GNS 111 (2), 112 (2)  
  \[= 4 \text{ Credits}\]

Total \[= 37 \text{ Credits}\]

#### 300 Level

**Compulsory Courses:**
- IRP 301 (3), 302 (2), 303 (2), 304 (3), 305 (2), 306 (3), 308 (2), 310 (2)  
  \[= 19 \text{ Credits}\]

**Required Courses:**
- GNS 311 (2), GSE 301 (3), FIN 345 (3), BUS 301 (3), 302 (2), 320 (2), 323 (2)  
  \[= 17 \text{ Credits}\]

**Electives Courses:**
- At least one elective course in the session:
  - IRP 312 (2), 314 (2)  
  \[= 2 \text{ Credits}\]

Total \[= 38 \text{ Credits}\]

#### 400 Level

**Compulsory Courses:**
- IRP 401 (2), 402 (2), 403 (2), 404 (2), 405 (2), 406 (2), 408 (2), 499 (6)  
  \[= 20 \text{ Credits}\]
Required Courses: BUS 401 (3), 402 (3), 403 (3), 429 (3) = 12 Credits

Electives Courses: At least 7 credits of elective courses in the session: IRP 407 (2), 409 (2), 410 (2), BUS 412 (3), SOC 410 (2) = 7 Credits
= 39 Credits

Graduation Requirements

UTME = 151 Credits
DE = 118 Credits
B.Sc. Public Administration

<table>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>PAD 101</td>
<td>Introduction to Public Administration</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Basic concepts: state, citizens, authority, legitimacy. Forms of government: unitary, federal, confederacy, decentralization, de-concentration and devolution. Politics and administration dichotomy: public administration, duties of public administration, scope of public administration, rudimentary understanding of the linkage between the public and the private sector, similarities and differences between public and private sector administration. Sources of public laws and legislations. Role of security agencies. Judiciary, bureaucracy as the engine room of government, bureaucrats and public servants.</td>
<td>45h (T); C</td>
</tr>
<tr>
<td>PAD 102</td>
<td>Citizenship and Elements of Government</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Relationship of the citizen to the state: duties and obligation of the citizen to the state. Responsibility of the state to the citizen. Nature of strained relations and the processes of reconciliation. Political obligation: basis of freedom, loyalty and patriotism.</td>
<td>45h (T); C</td>
</tr>
<tr>
<td>PAD 103</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>PAD 104</td>
<td>Introductions to Nigerian Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>PAD 105</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Meaning, goals and objectives of psychology. Basic concepts: principles, ideas, theories and issues. Psychology and human behaviour.</td>
<td>45h (T); C</td>
</tr>
</tbody>
</table>
PAD 106  Introduction to Local Government  3 Credits
45h (T); C

PAD 110  Nigeria Legal System  2 credits
30h (T); C

PAD 112  Individual, Group and Society  3 Credits
45h (T); C

PAD 201  Introduction to Political Science  3 Credits
45h (T); C

PAD 202  Theories and Practice of Public Administration in Nigeria  3 Credits
45h (T); C

PAD 203  Organization and Management Theories  3 Credits

**PAD 204**  
**Theory and Practice of Local Government Administration in Nigeria**  
3 Credits


45h (T); C

**PAD 205**  
**Introduction to Public Finance**  
3 Credits


45h (T); C

**PAD 206**  
**Human and Public Relations in the Public Sector**  
3 Credits


45h (T); C

**PAD 207**  
**Office Administration and Management**  
3 Credits

Basic concepts. Functions and processes of office administration. Similarities and differences between offices in the public and private sector. Rules governing office functioning.

45h (T); C

**PAD 208**  
**Theories of Leadership**  
2 Credits


30h (T); C

**PAD 209**  
**Theories and Practice of E-Governance**  
3 Credits

45h (T); C

**PAD 210 Gender Mainstreaming In Development**


45h (T); C

**PAD 301 Research Methodology**


45h (T); C

**PAD 302 Public Policy Making and Analysis**


45h (T); C

**PAD 303 Personnel Administration**


45h (T); C

**PAD 304 Government and Administration of Urban System**

3 Credits
Elements of urban administration. Basic issues in administration and management of urban areas. Problems of planning and execution of major services in urban political systems. Examination of the structure of political power operating in the systems.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PAD 305</td>
<td>Development Administration</td>
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<td>45h (T); C</td>
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<tr>
<td>PAD 306</td>
<td>Public Budgeting and Budgetary Control</td>
<td>3</td>
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<tr>
<td></td>
<td>45h (T); C</td>
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<tr>
<td>PAD 307</td>
<td>Traditional Administrative System in Nigeria</td>
<td>3</td>
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<tr>
<td></td>
<td>Early history of Nigeria. Migration and formation of centralized institutions: Nok culture, Hausa state, Kanem-Borno, Yoruba states, and Benin Kingdom. Administration within these groups. Formation of acephalous groups East and West of the Niger: Delta, North and South of the Benue. Administration within these groups.</td>
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<tr>
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<td>45h (T); C</td>
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<tr>
<td>PAD 308</td>
<td>Administrative Law II</td>
<td>2</td>
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<td></td>
<td>30h (T); C</td>
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<tr>
<td>PAD 309</td>
<td>Administration, Law and Ethics</td>
<td>3</td>
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<td></td>
<td>45h (T); C</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>PAD 310</td>
<td>Intergovernmental Relations (IGR)</td>
<td>3</td>
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<td>45h (T); C</td>
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<td>PAD 311</td>
<td>Administrative Law I</td>
<td>3</td>
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<td>45h (T); C</td>
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<tr>
<td>PAD 312</td>
<td>Use of Statistical Methods in Public Administration</td>
<td>3</td>
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<td>45h (T); C</td>
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<tr>
<td>PAD 314</td>
<td>Administrative Behaviour</td>
<td>2</td>
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<td>Authority and rationality in administration. Role concept: power and decision-making. Leadership, communication and motivation. Public policy analysis.</td>
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<tr>
<td>PAD 401</td>
<td>Public Financial Management</td>
<td>3</td>
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<tr>
<td>PAD 402</td>
<td>Project Analysis and Management</td>
<td>3</td>
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<tr>
<td></td>
<td>Inter-relationship between projects and development plans. Project cycle. Different aspects of project appraisal: economic, technical, organizational, managerial, and financial. Methodology for socio-benefit cost analysis and criteria for project choice. Project environment and organization. Project management techniques: PERT and CPM.</td>
<td></td>
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<tr>
<td></td>
<td>45h (T); C</td>
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</tbody>
</table>
PAD 403  Social Welfare Administration in Nigeria  3 Credits
Nature and development of social policy within the context of changing Nigerian social conditions. Impact of changing social conditions on family, groups and organizations. Welfare policies and social services. Criminology. Policies and problems: education, housing, health, food security.
45h (T); C

PAD 404  Comparative Public Administration  3 Credits
Concept, significance, rationale, evolution and approaches. Comparison of structures and processes of administration in various countries. Differences in other countries’ social, economic and political development. Models and proposition building in comparative public administration.
45h (T); C

PAD 405  Theory and Practice of Planning  3 Credits
45h (T); C

PAD 406  Public Enterprises Management  3 Credits
45h (T); C

PAD 407  Seminar in Public Administration I  2 Credits
90h (P); C

PAD 408  Seminar in Public Administration II  2 Credits
Office communication: art of minuting, drafting of speeches, letter writing, preparation of annual reports, handing over notes, office norms, languages and glossary of office abbreviations. Practical elements of protocol, and ways of doing things in the office. Internalizing values of probity, accountability and transparency in transacting the business of government.
90h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PAD 409</td>
<td>Conflict Management</td>
<td>3</td>
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<tr>
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<td>Causes, types and analysis. Escalation and</td>
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<td>de-escalation of conflicts. Conflict</td>
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<td>handling styles. Approaches to conflict</td>
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<td>management. Peace building and post-</td>
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<td>PAD 411</td>
<td>Comparative Local Government</td>
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<tr>
<td></td>
<td>Examination of theoretical bases of</td>
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<td>different local government systems.</td>
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<td>Comparison of main features of devolution,</td>
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<td>deconcentration, management, community</td>
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<tr>
<td></td>
<td>power structures, finance and central-local</td>
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<td>relationship. Local government operations</td>
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<td>in selected countries: United States of</td>
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<td>America, Eastern Europe, Britain, France</td>
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<tr>
<td></td>
<td>and Nigeria. Identification of differences</td>
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<td></td>
<td>and similarities in structures.</td>
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<td>30h (T); E</td>
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<tr>
<td>PAD 413</td>
<td>Legislature and Legislative Processes</td>
<td>2</td>
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<tr>
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<td>Survey: organization of legislative power,</td>
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<td>working facilities, principles, procedures,</td>
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<td>legislature. Legislature as arbiter among</td>
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<td>conflicting interests. The relationship</td>
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<td>between the legislature and the executive.</td>
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<td>PAD 414</td>
<td>Labour Administration in Nigeria</td>
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<td></td>
<td>The emergence and growth of the organized</td>
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<td>labour in Nigeria. Structure of the labour</td>
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<td>force. Leadership and ideology. Role of</td>
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<td>the organized labour in Nigerian politics</td>
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<td>and administration. Analysis of</td>
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<td>relationship between the Nigerian state</td>
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<td>and the organized labour.</td>
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<td></td>
<td>30h (T); E</td>
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<tr>
<td>PAD 415</td>
<td>Human Rights Administration in Nigeria</td>
<td>2</td>
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<tr>
<td></td>
<td>Panoramic survey of human right records</td>
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<td>globally. Case studies of major abuses</td>
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<tr>
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<td>across regions of the world: special</td>
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<td>world. African and Nigerian Human Rights</td>
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<td>30h (T); E</td>
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<tr>
<td>PAD 417</td>
<td>Globalization and Development</td>
<td>2</td>
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<tr>
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<td>Meaning, dimensions and linkages</td>
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<td>between globalization and development.</td>
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<tr>
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<td>Political, administrative and economic</td>
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<td>responses to globalization. Prospects of</td>
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<tr>
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<td>Third World countries’ development within</td>
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<tr>
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<td>the context of globalization.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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</tr>
</tbody>
</table>
PAD 499 Project 6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department culminating in the submission of a project.
270h (P); C
SUMMARY

100 Level

Compulsory Courses: PAD 101 (3), 102 (3), 103 (2), 104 (3), 105 (3), 106 (3), 110 (2), 112 (3)
= 22 credits

Required Courses: GNS 111 (2), GNS 112 (2), ECN 101 (3), CIT 111 (2), ECN 102 (3),
(3), BUS 103(3)
= 18 credits

Total = 40 Credits

200 Level

Compulsory Courses: PAD 201 (3), 202 (3), 203 (3), 204 (3), 205 (3), 206 (3), 207 (3), 208 (2),
209 (3), 210 (3)
= 29 Credits

Required Courses: GNS 211 (2), 212(2), SOC 207 (2), ACC 204 (3)
= 9 Credits

Total = 38 Credits

Direct Entry Students: GNS 111 (2), 112 (2)
= 4 Credits

300 Level

Compulsory Courses: PAD 301 (3), 302 (3), 303 (3), 304 (3), 305 (3), 306 (3), 307 (3), 308 (2),
310 (3), 311 (2), 312 (3), 314 (2)
= 36 Credits

Required Courses: GSE 301 (2), GNS 311(2)
= 4 Credits

Total = 40 Credits

400 Level

Compulsory Courses: PAD 401 (3), 402 (3), 403 (3), 404 (3), 405 (3), 406(3), 407(2), 408 (2),
411 (2), 499 (6)
= 33 Credits

Elective courses: PAD 413 (2), 414 (2), 415 (2), 417 (2)
Total = 33 Credits
Graduation Requirements

UTME  = 151 Credits
DE    = 115 Credits
FACULTY OF PHARMACEUTICAL SCIENCES

Dean’s Office

A. Agunu  B.Pharm., M.Sc., Ph.D. (ABU).  Professor & Ag. Dean

A. Giwa  B.Pharm. (ABU); MPA (Maiduguri); MPH (Ilorin); M.Pharm., Ph.D. (Lagos)  Senior Lecturer & Sub-Dean

Khadijat W. Garba  B.Ed., M.Ed. (Ilorin)  Faculty Officer

Department of Clinical Pharmacy and Pharmacy Practice

A. Giwa  B.Pharm. (ABU); MPA (Maiduguri); MPH (Ilorin), M.Pharm., Ph.D. (Lagos)  Senior Lecturer & Ag. Head

Iyabo S. Bello  B.Pharm., (ABU); M.Pharm. (Ibadan)  Lecturer II

I. F. AbdulAzeez  B.Pharm., (ABU); M.Pharm. (Ibadan)  Lecturer II

Felicia E. Williams  B.Pharm. (Benin); MCOMM.H.  Lecturer II

M.O. Jamiu  B.Pharm. (ABU); Pharm.D. (Benin)  Lecturer II

A.O. Abdulrahman  B.Sc. (Ilorin); PGDM  Technologist II

A. Abdulraheem  B.Tech. (MAUTECH)  Technologist II

Department of Pharmacognosy and Drug Development

A. Agunu  B.Pharm., M.Sc., Ph.D. (ABU)  Professor & Head

Biliqis A. Lawal  B.Pharm. (OAU); M.Sc. (Ibadan)  Lecturer II

Sukurat O. Usman  B.Pharm., M.Sc. (Lagos)  Lecturer II

M.K. Salawu  B.Pharm. (ABU)  Assistant Lecturer

A. Abdullah  B.Pharm. (Maiduguri)  Assistant Lecturer

A.O. Olutayo  HND  Assistant Chief Technologist

A.O. Durotola  B.Sc. (UNAAB); M.Sc. (Ilorin)  Assistant Chief Technologist

Department of Pharmaceutical and Medicinal Chemistry

Moji T. Bakare–Odunola  B.Sc. (Maiduguri); M.Sc., Ph.D. (ABU)  Professor & Head
Department of Pharmaceutics and Industrial Pharmacy
O.I. Aremu  B.Pharm.(OAU); M.Sc. (Ibadan); Ph.D. (OOU)  Senior Lecturer & Ag. Head
T.A. Iranloye  B.Sc. (OAU); M.Sc. (Iowa); Ph.D. (London)  Professor
A.O. Shittu  B.Pharm., M.Sc., Ph.D. (ABU)  Senior Lecturer
Rashidat K. Animasawun  B.Pharm. (OOU)  Assistant Lecturer
J.B. Aina  Part I,II, C&G  Principal Technologist

Department of Pharmaceutical Microbiology and Biotechnology
A.O. Shittu  B.Pharm., M.Sc., Ph.D (ABU)  Senior Lecturer& Ag Head
Y. K. E. Ibrahim  B.Sc. (ABU); M.Sc., Ph.D. (Heideiberg)  Visiting Professor
Susan M. David  B.Pharm. M.Sc. (ABU)  Lecturer II
Haisat Olufadi-Ahmed  B.Pharm. (ABU)  Assistant Lecturer
A. Abdulmalik  B.Pharm. (ABU)  Assistant lecturer
Hadiyat R. Bello  B.Tech., M.Sc. (ATBU)  Principal Technologist
L. D. Olorukooba  B.Sc. (ABU)  Technologist II
Omatseye Salami  B.Sc. (Al-Hikmah)  Technologist II
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rashidat O. Ayanniyi</td>
<td>B.Pharm. (ABU); M.Sc. (Jos); Ph.D. (ABU)</td>
<td>Senior Lecturer &amp; Ag. Head</td>
</tr>
<tr>
<td>Mohammed O. Amali</td>
<td>B.Pharm. (Jos); M.Sc. (OAU); Ph.D. (Liverpool)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>Oyeronke M. Kola-Olaniyan</td>
<td>B.Pharm., M.Sc. (ABU).</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>Hidayah Abdul-Ayodeji</td>
<td>B.Pharm. (ABU)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>A. S. Abiola</td>
<td>B.Pharm. (OAU)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>A. I. Olapade</td>
<td>HND</td>
<td>Technologist II</td>
</tr>
</tbody>
</table>

(a)

**Department of Pharmacology and Toxicology**

**FACULTY OF PHARMACEUTICAL SCIENCES**

**B. Pharm.**

**100 Level**
The following courses are to be taken as published in the Faculty of Life and Physical Sciences.


PCP 101 is to be taken as published in the Department of Clinical Pharmacy and Pharmacy Practice = 1 Credit

Department of Clinical Pharmacy and Pharmacy Practice

Course Description

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCP 101</td>
<td>Introduction to Pharmacy</td>
<td>1 Credit</td>
</tr>
<tr>
<td></td>
<td>(c) 15 h(T); C</td>
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<tr>
<td>PCP 301</td>
<td>Pathology and Pathophysiology</td>
<td>2 Credits</td>
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<tr>
<td></td>
<td>30 h (T); C, PR: PCL 203, 204</td>
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<tr>
<td>PCP 302</td>
<td>Introduction to Clinical Pharmacy</td>
<td>1 Credit</td>
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<tr>
<td></td>
<td>Definition, scope and function. Hospital drug distribution systems, medical abbreviations, terms and terminologies. Clinical interpretation of laboratory values. General drug use in diarrhoea, constipation, nausea, vomiting and other GIT disorders. Introduction to routinely used medical instruments / equipments.</td>
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<tr>
<td></td>
<td>15 h (T); C, PR: PCP 101, 301</td>
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<tr>
<td>PCP 304</td>
<td>Drug Information and Pharmacy Communication</td>
<td>1 Credit</td>
</tr>
<tr>
<td></td>
<td>Literature evaluation and drug information: methods and resources available for the rapid and efficient handling of factual drug information; information storage; retrieval and dissemination; resources needed for the establishment of a drugs information centre; levels of drug information centre; functions and services of various level; and drug information service. Pharmacists’ clinical role: dispensing (in-and-out patients). Organization of patient’s medical charts and medication profiles; medication dosages. Monitoring of drug interactions, adverse drug reaction detection, reporting and patient counselling. Types of communication:</td>
<td></td>
</tr>
</tbody>
</table>
appearance as a mode of communication; the various styles of listening / response and applications to patient interview and education. Factors affecting patient compliance with drug regimens. Pharmacist’s relationship with other health care professionals.

15 h (T); C, PR: GNS 111, PCP 101

PCP 306 Entrepreneurship: Theory and Practice 1 Credit
Definition, nature and functions and types of entrepreneurship. Managerial skills: management process; importance of management in pharmacy business; industrial pharmaceutical organization, marketing, advertising and sales promotion. Generating and developing business ideas. Conducting market surveys. Preparing a business plan. Selecting a business locations. Policy and Legal Framework: Legal procedure; information service; intellectual property rights; and patenting of inventions. Starting and managing a Pharmacy enterprise: Pharmacy financing and administration and drug supply management. Finance and Record Keeping: Financing a business venture; costing and pricing products/services; financial statements and their analysis, budgeting and cash flow.

15h (T); C, PR:PCP 101

PCP 401 Pharmacotherapeutics I 2 Credits

30 h (T);C,PR: PCP 302, PCL 302, 304

PCP 403 Pharmacy Jurisprudence, Regulation &Control 1 Credit
General Laws of contract and Laws concerning employees/ employers relationship. Pharmacists Council of Nigeria under the Poison and Pharmacy Act:Dangerous Drugs Act, Cap 48, 1960; Poisons and Pharmacy Act, Cap 152, 1960; The Twelve Pharmacy Decrees under Military Rule. Drug manufacture, and advertisement. Sales of food, drugs, cosmetics and devices under the Food and Drugs Administration (FDA).Dangerous drugs: medicinal dangerous drugs, trade in dangerous drugs, power to control dangerous drugs in Nigeria and the decree on Indian hemp. General principles of professional ethics. General laws of professional liability. Decrees:food and drug;National Agency for Food and Drug Administration and Control (NAFDAC);National Drug Law Enforcement Agency(NDLEA);fake drugs and unwholesome foods, essential drug lists. Pharmacy regulation and control: definition; regulatory authorities ; various aspects of regulatory pharmacy; quality control /quality assurance; clinical evaluation; Current Good Manufacturing Practice (CGMP); Registration and Enforcement.

15h (T); C, PR: PCP 101

PCP 405 Pharmacokinetics 2 Credits
Introduction: Drug administration, fate and influence of the route of administration on bioavailability. Biological membranes,

15h (T), 45h(P); C, PR: PCL 301, PCP 302.

PCP 402 Pharmacy Management 2 Credits
30h (T); C, PR: PCP 306.

PCP 404 Pharmacotherapeutics II 2 Credits
Definition, aetiology, pathophysiology, signs and symptoms, prevalence, diagnosis, risk factors, precipitating factors, classification, complications, drug interactions, patient counselling. Education and specific concept regarding following conditions: Endocrine and gastrointestinal disorders, hepatic, Joint and connective tissue and cutaneous diseases. Infectious diseases: cerebrospinal meningitis and parasitic diseases.
30 h (T); C, PR: PCP 302, PCL 303, 304

PCP 406 Clinical Pharmacokinetics 2 Credits
Therapeutic drug monitoring (TDM) concept: Definition and clinical advantages of TDM, specific dosage prescribing requirements/guidelines under certain conditions, prescribing for the pediatric and elderly populations, prescribing for renal and liver impaired patients, prescribing pregnant and lactating mothers, pharmacokinetics in disease states modify body perfusion, pharmacokinetics in disease state modifying protein binding, consideration of the clinical pharmacokinetics of selected drugs used in various disease state. Applications of clinical pharmacokinetic parameters
15h(T), 45h(P); C, PR: PCL 301, PCP 302.

PCP 501 Public Pharmaceutical Healthcare 2 Credits

30h (T); C, PR: PCP 304, 306.

PCP 503 Pharmacotherapeutics III 2 Credits

30 h (T); C, PR: PCP 401, 404.

PCP 505 Research Methodology & Statistics 2 Credits
Research Proposal Writing, Sample size determination, sampling techniques, biomedical writing and journal critique. Review of basic statistics from measures of central tendency to paired sample hypothesis; parametric and non-parametric analysis, multi-sample hypotheses and multiple comparisons, Chi-square analysis, Student’s t-test, analysis of variance, analysis of variance (ANOVA); simple linear and multiple regression; comparing linear regression equations. Binomial distribution, testing for randomness; Pearson correlation. Analyzing data using statistical computer packages.

30 h (T); C

PCP 502 Contemporary Concepts in Pharmacy Practice I 2 Credits

30 h (T); C, PR: PCP 401, 404

PCP 504 Ethical Dispensing Practical 2 Credits

90(P); C, PR: PCT 303, 304, 401.

PCP 506  Clinical Ward Round and Clerkship in General Medicine 4 Credits
Clinical Ward Round: attachment to medical wards for six (6) rotations; drug therapy monitoring; attachment to a patient per ward and presentation of clinical cases; utilizing the SOAP and CORE-PRIME-FARM approach and submission of written report in compliance with given outline. Clinical Clerkship: knowledge of, and intimate involvement with all specialized clinics in the hospital, especially University of Ilorin Teaching Hospital (U.I.T.H.). An oral case presentation and a written report submitted at the end of each rotation.

90h Clinical Ward Round, 45h Clinical Clerkship, 45h Presentations; CPR: PCP 401, 404

PHP 599  Project. 4 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

180h (P); C

Department of Pharmacognosy and Drug Development

Course Description

PCG 201  Introductory Pharmacognosy, Microscopy and Cytology 3 Credits
(e) 30h (T), 45 h (P); C
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PCG 202</td>
<td>Vegetable Drugs, and Taxonomy</td>
<td>3</td>
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<tr>
<td></td>
<td>Introduction. Drugs in the following morphological groups: Morphological Groups: woods e.g Quassia; bark (Cinchona, Cascara and Cassia); Leaves, (Stramonium, Senna, Digitalis, Tobacco, Cannabis); flowers, (Pyrethrum and Clove); Fruits, e.g Capsicum, Fennel, Cardamum; Seeds, e.g Strophanthus, Calabar bean, Castor and Roots, Rauwolfia, Ginger, Ipecacuanha.</td>
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<td></td>
<td>30 h (T), 45 h (P); C</td>
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<tr>
<td>PCG 301</td>
<td>Fibres, Extraction and Separative Techniques</td>
<td>2</td>
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<tr>
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<td>Fibres: Introduction; importance, relevance, uses and classification of various fibres; production, diagnostic character and general properties. Standardization and evaluation of surgical products and dressings. Extraction: Introduction and processes used in the preparation of galenicals in pharmacy and official methods of extraction of crude drugs. Separative techniques: column chromatography, paper chromatography; thin layer chromatography; gel filtration and electrophoresis.</td>
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<td>15 h (T), 45 h (P); C, PR: PCG 201, 202</td>
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<tr>
<td>PCG 302</td>
<td>Phytochemistry of Carbohydrates, glycosides, tannins, proteins and enzymes.</td>
<td>2</td>
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<td>15h (T), 45 h (P); C,PR: PCG201, 202</td>
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<tr>
<td>PCG 304</td>
<td>Phytochemistry of Alkaloids, Terpenes and Volatile oils</td>
<td>2</td>
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<tr>
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<td>Theory on Phytochemistry of alkaloids, terpenes. volatile oils. Characterization and identification of alkaloids, terpenes and volatile oils</td>
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<td>15 h (T), 45h (P); C, PR: PCG 201, 202</td>
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<tr>
<td>PCG 401</td>
<td>Advances in Phytochemistry, Chromatography and Development of New Drug</td>
<td>3</td>
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<td></td>
<td>30 h (T), 45 h (P); C,PR:PCG 301, 302</td>
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</tr>
<tr>
<td>PCG 402</td>
<td>Research Methods and Plant Tissue Culture Techniques</td>
<td>3</td>
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<tr>
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<td>Research Methods: Importance of medicinal plants research; methods and techniques applied to research on plant materials; selection, identification, collection and preparation of the plant materials. Extraction, isolation and analysis of the active phytochemicals and their characterization and identification. Plant tissue culture in the production of pharmaceuticals through</td>
<td></td>
</tr>
</tbody>
</table>
biotechnology. Introduction, equipment and facilities require for tissue culture work; factors affecting growth of cultures, applications of plant tissue culture and secondary plant products. Origin and biogenesis of natural drug products: definition, importance of metabolism and metabolic path-ways and types of biochemical reactions.

30h (T), 45h (P); C, PR: PCG 301, 302.

PCG 501  \textbf{Nigerian Medicinal and Ordeal plants, Forensic Pharmacognosy, Traditional Medicine and Evaluation of Crude Drugs} \hspace{1cm} 3 \text{ Credits.} \\
\hspace{.5cm} Nigerian Medicinal and Ordeal Plants: classification and study of representative and their groups; Forensic pharmacognosy: Legal control; Toxicological analysis and Classification of poisons. Traditional Medicine: Introduction; Methods of preparation and quality control of traditional medicinal products e.g. Plant and animal products used in traditional medicines. Evaluation and standardization of crude drugs: Introduction; Definitions and implications of evaluation; Determination of moisture content in drugs and chemicals

30 h (T), 45h (P); C, PR:PCG 401,402

PCG 502  \textbf{Herbal medicine, Chemotaxonomy, Genetics and Plant Ecology} \hspace{1cm} 3 \text{ Credits} \\
\hspace{.5cm} Herbal medicine; selection; dose and remedies. Pesticides and Herbicides; Genetics in Pharmacognosy. Chemotaxonomy and comparative phytochemistry.

30 h (T), 45h (P); C, PR: PCG 401, 402

PHP 599  \textbf{Project} \hspace{1cm} 4 \text{ Credits} \\
\hspace{.5cm} Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission a project.

180h (P); C
Department of Pharmaceutical and Medicinal Chemistry

Course Description

PCH 201  Pharmaceutical Inorganic Chemistry     1 Credit
15h (T); C

PCH 203  Pharmaceutical Organic Chemistry     2 Credits
General classes of Organic Compounds, structural concepts, nomenclature, occurrence, reactions, infra-red spectroscopy, physical and chemical properties with examples of some pharmaceutical agents of the following groups: alkenes, alkynes, aromatic and fused aromatic hydrocarbon; halogenated hydrocarbons; alcohols and phenols; aldehydes and ketones; carboxylic acids, esters, lactones, amides, anhydrides and halides; amines, amides, Imides, carbamates derivatives, nitro and nitroso compounds.
15h (T), 45h (P); C, PR: CHM 101, 112

PCH 202  Pharmaceutical Analytical Inorganic Chemistry     3 Credits
Preliminary analysis of acids and basic radicals. Preparation of solutions of salts. General scheme for the separation of cations into groups. Reactions of cations and anions. Qualitative examination of anions and cations of groups I-VII.
30h(T), 45h(P); C

PCH 204  Pharmaceutical Physical Chemistry     2 Credits
30h (T), C

PCH 205  Introduction to Physical Biochemistry     2 Credits
Water, physical properties, hydrogen binding, water as solvent, solution, acids, and bases. \( \text{PH}, \text{PKa} \) values and their effects on cellular activities, buffers. Structure of cells, cell-organelles, cell types, integration of cellular functions, division and differentiations.
PCH 206  Structure and Chemistry of Biomolecules and Biosynthesis of Macromolecule  
2 Credits  
30 h (T); R

PCH 207  Metabolism of Biomolecules  
2 Credits  
15h(T), 45h(P); R

PCH 301  Pharmaceutical Analysis I  
2 Credits  
15h (T), 45h (P); C, PR: PCH 201

PCH 302  Pharmaceutical Organic Chemistry I  
2 Credits  
15h (T), 45h (P); C

PCH 303  Pharmaceutical Organic Chemistry II  
3 Credits  
30h (T), 45h (P); C, PR: PCH 203

PCH 401  Pharmaceutical Analysis II  
3 Credits  
30h (T), 45h (P); C, PR: PCH 301

PCH 403  Physicochemical Principles of Medicinal Chemistry  
2 Credits

30h (T); C, PR: PCH 302

**PCH 402 Analytical Quality Control**


15h (T), 45h (P); C, PR: PCH 301

**PCH 501 Medicinal Chemistry I**

Nomenclature, physical and chemical properties, uses and mechanisms of action, synthesis and structural activity relationship. Assay and metabolism of the following classes of drugs: Analgesics and antipyretics; local and general anaesthetics; sedative and hypnotic; anticonvulsants. Adrenergics and cholinergics; antihistamines; hypoglycaemics, antihypertensives and diuretics.

30h(T); C, PR: PCH 401, 403

**PCH 503 Medicinal Chemistry II**

Nomenclature, physical and chemical properties, uses and mechanism of action, synthesis and structural activity relationship, assay and metabolism of the following classes of drugs: sulphonamides and sulfones, antibiotics, antimalarials, amoebicides, trypanocides and antihelminitics, antineoplastics, antivirals, gastrointestinal agents, vitamin, steroids and steroid hormones.

15h(T); C, PR: PCH 403

**PCH 502 Chemical Aspects of Drug Metabolism**


15h (T); C, PR: PCH 403

**PCH 504 Radiopharmaceuticals and Contrast Media**


15h (T); C

**PHP 599 Project**

4 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission a project.

180h (P);C

Department of Pharmaceutics and Industrial Pharmacy

Course Description

PCT 201 Pharmaceutical Calculations 1 Credit
Units of weights and measures. Inter-conversions of weights and measurements. Units. Abbreviations. Simple calculations. Various dosage calculations: pediatric, geriatric, mean generation times, decay and potency calculation. Kinetic equations and rates of reactions. Solubility: iso-osmotic solutions, milliequivalents and millimoles. Calculations involving use of prefabricated dosage forms in compounding procedures. 15 h (T);C

PCT 202 Physical Pharmacy 1 Credit
Phase equilibria and phase rules. Colloids. Stability of colloidal systems. Lyophobic and lyophilic. Solutions. Surface science, optical and kinetic properties of colloids. Electrical, rheology and viscosity properties of colloids. 15h (T); C

PCT 204 Technology of Formulation 2 Credits
Properties of Solid Systems: Particles size analysis and separation, size reduction; mixing. Properties of liquid systems. Extraction: solid/liquid separation (filtration and centrifugation). Heat transfer; evaporation and distillation. 30h (T);C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCT 206</td>
<td>Introduction to Dispensing</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Unit operations e.g. size reduction. Particle size determination, mixing of solids in semi-solids, preparation of simple solutions, mixtures, powders etc. Drying, filtration, extraction, distillation, centrifugation. Aromatic waters and dissolution studies.</td>
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<tr>
<td></td>
<td>45h (P); C</td>
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<tr>
<td>PCT 301</td>
<td>Technology of Liquid and Semi-solid Formulations</td>
<td>2</td>
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<td>30h (T); C, PR: PCT 204</td>
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<tr>
<td>PCT 303</td>
<td>Theory of Dispensing</td>
<td>1</td>
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<td>15h (T); C, PR: PCT 201</td>
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<tr>
<td>PCT 302</td>
<td>Technology of Solid Formulations</td>
<td>2</td>
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<td>30h (T); C, PR: PCT 204</td>
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<tr>
<td>PCT 314</td>
<td>Dispensing Practical</td>
<td>1</td>
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<tr>
<td></td>
<td>Use of basic dispensing instruments and tools (balances, mortars, homogenisers, measuring apparatus). Preparation of different dosage forms (powders, solutions, mixtures, emulsions, ointments, liniments, eye/ear drops, capsules, granules, coated and uncoated tablets etc) and tackling incompatibilities.</td>
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<td>45h (P); C, PR: PCT 206</td>
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<tr>
<td>PCT 411</td>
<td>Formulation of Dosage Forms</td>
<td>1</td>
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<tr>
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<td>45h (P); C, PR: PCT 304</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>PCT 402</td>
<td>Quality Control and Stability of Pharmaceutical Preparations</td>
<td>3</td>
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<td>30 h (T), 45 h (P); C, PR: PCT 202, 205, 304</td>
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<tr>
<td>PCT 403</td>
<td>Formulation Technology and Water Production</td>
<td>1</td>
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<td>15h (T); C, PR: PCT 301, 302</td>
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<tr>
<td>PCT 404</td>
<td>Radiopharmaceuticals and Medicinal Gases</td>
<td>1</td>
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<td>15h (T); C</td>
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<tr>
<td>PCT 501</td>
<td>Industrial Pharmacy and Biopharmaceutics</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>PCT 502</td>
<td>Product Development and Good Manufacturing Practice</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); C, PR: PCT 402</td>
<td></td>
</tr>
<tr>
<td>PCT 503</td>
<td>Industrial Pharmacy</td>
<td>1</td>
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<tr>
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<td>Visitation to Pharmaceutical Companies to familiarization with methods and machineries used for pharmaceutical preparations. Preparation and evaluation of cosmetics. Tablet production by direct compression and Slugging and wet granulation methods. Evaluation of tablets.</td>
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<tr>
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<td>45h (P); C, PR: PCT 401</td>
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<tr>
<td>PHP 599</td>
<td>Project</td>
<td>4</td>
</tr>
</tbody>
</table>
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission a project.

180h (P); C

Department of Pharmaceutical Microbiology and Biotechnology

Course Description

PMB 201 Introduction to Pharmaceutical Microbiology 3 Credits

30h (T), 45h (P); C

PMB 202 Chemical Antimicrobial Agents and Disinfections 3 Credits

30h (T), 45h (P); C

PMB 301 Principles and applications of Biotechnology 2 credit

30h (T); C, PR: PMB 201

PMB 303 Pharmaceutical Aspect of Immunology 2 Credits
Immunology: Infection, basic molecular biology, bacteria toxin, invasive pathogens, antigens and antibodies. Immunological products: vaccines (viral vaccine, Rickettsia vaccine etc), toxoids. Antisera (Diphtheria) and diagnostic agents. Immunization schedule. Production and preservation of antibodies, sera and vaccines.

30h (T); C, PR: PMB 201

PMB 312 Biological Products 1 Credit
PMB 314 Sterilization and Aseptic Processes, Sterile Products 3 Credits
30h (T), 45h (P); C, PR: PMB 202, 303

PMB 411 Pharmaceutical and Veterinary Parasitology 1 Credit
Epidemiology: principles and indices, epidemiology of infectious and non-infectious diseases in animals, microbial diseases of domestic animals and antimicrobial agents used in their management.
15h (T); C

PMB 403 Preservation of Pharmaceutical Products 1 Credit
Microbial contamination of pharmaceuticals; effects on products and users. Preservatives and evaluation of their preservative effectiveness. In-process microbiological control procedures.
15h (T); C, PR: PMB 304.

PMB 412 Chemotherapeutic Agents, Drug Resistance and Bacterial Genetics 3 Credits
30h (T), 45h (P); C, PR: PMB 301, 303.

PMB 414 Production and Marketing of Biotechnology Products 2 credits
Production of biopharmaceuticals and process validation, Business in biopharmaceuticals and intellectual property.
15 h (T), 45 (P); C, PR: PMB 301

PMB 511 Analytical Microbiology and Fermentation Technology 3 Credits
Analytical Microbiology: evaluation of antibiotic activity, assay procedures, screening/testing the antimicrobial activity of different chemicals, plant extracts, bacterial and fungal products. Fermentation technology: fundamentals of industrial fermentation, genetic/enzymatic engineering techniques, production of antibiotics; production of vitamins, alcohols, acetone, microbial food. Microbiological transformation of steroid.
30h (T), 45 (P); C, PR: PMB 402

PMB 502 Pharmaceutical Biotechnology 1 Credit
Nucleic Acids: Replication and transcription. Control of gene expression. DNA damage and repair; Basic techniques in

15h (T); C, PR:PMB 401, 402

**PHP 599** Project. 4 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

180h (P); C
Department of Pharmacology and Toxicology

Course Description

PCL 201  Anatomy of Essential Organs  2 Credits
Cardiovascular System: brief heart and vascular free with blood vessels, structures of heart and blood vessel. Respiratory system: gross anatomy of the thorax, nasal cavity, trachea, lungs and bronchioles diaphragm and respiratory movement. Gastro-intestinal tract: organs of the lower and upper gastro-intestinal wall. Renal system: urogenital system, microscopic anatomy of the urogenital organ, pelvic endocrine organs
15h(T), 45h(P);R

PCL 202  General Embryology and Respiratory System  2 Credits
15h(T), 45h(P);R

PCL 203  Physiology of Essential Organs  3 Credits
30h(T), 45h(P);R

PCL 204  Physiology of Nervous System  2 Credits
15h(T), 45h(P);R

PCL 301  Introduction to Pharmacology  2 Credits
Definition of pharmacology and its subject coverage, Factors modifying drug action; Routes of drug administration and their characteristics; Introduction to pharmacokinetic Processes, Introduction to Pharmacodynamics, Dose-response relationships, Drug toxicity, Introduction to drug screening and evaluation.
15h (T), 45 (P); C,PR: PCL 201, 202, 203, 204, PCH 205, 206, 207
**PCL 303  Pharmacology of the Autonomic Nervous System and Neuromuscular Junction**  
*2 Credits*
*15h (T), 45h (P); C, PR: PCL 201, 202, 203, 204, PCH 205, 206, 207*

**PCL 302  Systemic Pharmacology I: Cardiovascular System**  
*2 Credits*
*15h (T), 45h (P); C, PR: PCL 201, 202, 203, 204, PCH 205, 206, 207*

**PCL 304  Systemic Pharmacology II**  
*2 Credits*
Drugs used in the treatment of: Respiratory system (asthma and cough) Gastrointestinal system (peptic ulcer, diarrheal), Blood (anaemias, anticoagulants, fibrinolytic agents) and Autocoids (histamine and antihistamine, antagonist, prostaglandins) diseases.  
*30h (T), C; PR: PCL 201, 202, 203, 204, PCH 205, 206, 207*

**PCL 401  Pharmacology of the Central Nervous System**  
*3 Credits*
*30h (T), 45h (P); C, PR: PCL 301*

**PCL 402  Chemotherapy of Neoplastic Diseases**  
*1 Credit*
*15h (T); C, PR: PCL 301*

**PCL 403  Chemotherapy of Parasitic Bacterial, Fungal and Viral Diseases**  
*2 Credits*
*30h (T); C, PR: PCL 301*

**PCL 404  Endocrine Pharmacology**  
*2 Credits*
Antithyroid Drugs and Inhibitors: Adrenocortical Tropic Hormone (ACTH) and adrenocortical steroids: insulin and antidiabetic agents, Pharmacology of the reproductive system, drugs used in obstetrics and gynaecological disorders.
15h (T), 45h (P); C, PR: PCL 301.

**PCL 405 Immuno-Pharmacology**


15h (T); C,PR: PCL301

**PCL 501 Toxicology**

Introduction, definition and scope, pesticides, insecticides, herbicides, rodenticides, fungicides and fumigants, Solvent, vapours and gases, food toxicology, phytotoxicity, toxins of animal origin: toxicology of cosmetics: social poisons (Drug Abuse), radiation and radioactive materials. Heavy metal poisoning, heavy metal antagonists, industrial poisons, environmental toxicology, hazardous / toxic Wastes.

30 h (T),45h (P); C, PR: PCL 304,401.

**PCL 502 Molecular Pharmacology**

Introduction to receptors and intracellular signaling. Agonist and antagonist. Receptor interactions, ion channels, tolerance and intercellular Messenger, Protein purification, gene therapy and relationship to diseases.

30h (T); C; PR: PCL 301.

**PCL 503 Veterinary Pharmacology**

Definition of veterinary pharmacology, Compounding and dispensing of medicines to animals. Compliance of animals with medications, poisons in animal, Drugs used in the treatment of sheep and goat diseases, poultry diseases, swine diseases, small animal (dog and cat) diseases. Antimicrobial agents used in treating animal infections.

30h (T); C,PR: PCL 301.

**PHP 599 Projects.**

Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

180h (P); C
SUMMARY

100 Level


= 39 Credits

Compulsory Course: PCP 101 (1)

= 1 Credit

Total = 40 Credits

200 Level


Total = 44 Credits.

DE: PCP 101 (1), GNS 112 (2), GNS 111 (2) = 5 Credits

300 Level

Compulsory Courses:

PCP 301 (2), 302 (1), 304 (1) 306 (1), PCH 301 (2), 302 (3), 303 (2), PCT 301 (2), 302 (2), 303 (1), 314 (1), PMB 301 (2), 312 (1), 303 (2), 314 (3), PCG 301 (2), 302 (2), 304 (2), PCL 301 (2), 302 (2), 303 (2), PCL 304 (2).

= 40 Credits

Required Courses: GNS 311 (2), GSE 301 (3).

= 5 Credits

Total Credits = 45 Credits

400 Level

Compulsory Course:
PCP 401 (2), 402 (2), 403 (1), 404 (2), 405 (2), 406 (2), PCH 401 (3), 402 (2), 403 (2), PMB 411 (1), 412 (3), 403 (1), 414 (2), PCT 411 (1), 402 (3), 403 (1), 404 (1), PCG 401 (3), 402 (3), PCL 401 (3), 402 (1), 403 (2), 404 (2), 405 (1)

Total Credits = 46 Credits

500 Level

Compulsory Courses:

Total Credits = 46 Credits

Graduation Requirements

UTME= 221 Credits
DE= 186 Credits
FACULTY OF PHYSICAL SCIENCES

DEAN'S OFFICE

I. A. Adimula      B.Sc. (Ilorin); M.Sc. (OAU); Ph.D. (Ilorin)        Professor & Dean
Catherine N. Ejieji B.Sc. (Nsukka); M.Sc., Ph. D. (Ilorin)            Lecturer I & Sub-Dean
O. G. Fagbamila   B.Sc., MBA (Ilorin)                               Faculty Officer

DEPARTMENT OF CHEMISTRY

N. Abdus-Salam    B.Sc., M.Sc., Ph.D. (Ilorin)                      Reader & Ag. Head
J.A. Obaleyeye    B.Sc. (Tennessee); Ph.D. (Texas)                  Professor
E.O. Odebunmi     B.Sc. (Ibadan), M.Sc., Ph.D. (Princeton)          Professor
U.B. Eke          B.Sc., M.Sc., Ph.D. (Ilorin)                       Professor
A.C. Tella        B.Sc. (Lagos), M.Sc., Ph.D. (Ilorin)              Senior Lecturer
L.A. Usman        B.Sc. (Ed.), M.Sc. (Ilorin), Ph.D. (LAUTECH)       Senior Lecturer
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
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<tbody>
<tr>
<td>S.O. Oguntoyé</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Modinah A.O.</td>
<td>B.Sc., M.Sc., (Ibadan); PGDE; Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>Abdul Raheem</td>
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<td>Amudat Lawal</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<td>O.M. Ameen</td>
<td>B.Sc., (BUK); M.Sc., Ph.D. (Ilorin)</td>
<td>Lecturer I</td>
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<td>S. O. Owalude</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
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<td>Halimat I. Adegokes</td>
<td>B.Sc. (Ibadan); M.Sc., Ph.D. (Ilorin)</td>
<td>Lecturer I</td>
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<td>O. Tolani</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
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<tr>
<td>S. E. Elaigwu</td>
<td>B.Sc. (BSU); M.Sc. (ABU); Ph.D. (Hull)</td>
<td>Lecturer II</td>
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<tr>
<td>A. A. Hamid</td>
<td>B.Sc. (Ilorin); M.Sc. (Ibadan)</td>
<td>Lecturer II</td>
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<td>A. O. Rajee</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<td>O. M. Bello</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>S. A. Elelu</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>S. A. Asala</td>
<td>OND, ANIST</td>
<td>Chief Technologist</td>
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</table>
A. C. Tomilayo            ANIST                                         Chief Technologist

Mr. J. F. Odedina         B.Sc. (Ilorin); PGDE; MBA, M.Ed. (Ilorin)  Asst. Chief Technologist

K. F. Olowe              HND                                         Senior Technologist

Ajarat A. Ahmed           HND                                         Technologist II

Kudirat A. Abdulwahab    B.Sc. (UNAAB)                                     Technologist II

Aminat A. Abdulquadri    B.Sc. (Lagos)                                     Technologist II

Khadijat O. Issa         HND                                         Technologist II

Rukayat T. Fakunle        HND                                         Technologist II

DEPARTMENT OF GEOLOGY AND MINERAL SCIENCES

O. A. Adekeye            B.Sc., M.Sc., Ph.D. (Ilorin)                               Senior Lecturer & Ag Head

S. O. Akande             B.Sc. (Ibadan); M.Sc. (West Ontario); Ph.D. (Dalhousie) Professor

O. Ogunsanwo             B.Sc. (Ibadan), M.Sc., Ph.D (OAU)                               Professor

J. I. D. Adekeye         B.Sc. (Ibadan); M.Sc. (OAU); Ph.D. (Pittsburgh) Professor

R. B. Bale               B.Sc. (Ibadan); M.Sc. (Hull); Ph.D. (Southampton) Reader
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>O. J. Ojo</td>
<td>B.Sc. (Ilorin); M.Sc. (Ibadan); Ph.D. (Ilorin)</td>
<td>Reader</td>
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<tr>
<td>S. M. A. Adelana</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Lecturer I</td>
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<td>O. O. Ige</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
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<td>A. D. Adedoyin</td>
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<td>O. A. Omotoso</td>
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<td>A. Abdurrahman</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<td>L.M. Johnson</td>
<td>B.Sc. (Ilorin); M.Sc. (Derby)</td>
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<td>Mercy T. Alebiosu</td>
<td>B.Sc. (CRU)</td>
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<td>M.A. Yusuf</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
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<td>Oluwatooin K. Ali</td>
<td>B.Sc. (Ilorin); M.Sc. (Derby)</td>
<td>Assistant Lecturer</td>
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<td>Omolayo A. Omorinoye</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>K.O. Ibrahim</td>
<td>B.Sc. (Ilorin); M.Sc. (FUTM)</td>
<td>Assistant Assistant</td>
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<td>P. O. Babayemisi</td>
<td>B.Sc., (Ed) (Lagos)</td>
<td>Chief Technologist</td>
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<tr>
<td>C. A. Obaseki</td>
<td>HND (Ibadan)</td>
<td>Chief Technologist</td>
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<td>Rukayat T. Ayanlere</td>
<td>B.Sc. (Ilorin)</td>
<td>Technologist I</td>
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<td>R. O. Olaoye</td>
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<td>H. O. Abubakar</td>
<td>B.Sc., (Ilorin); PGD (FUTA)</td>
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<td>A. K. Oniyangi</td>
<td>HND (Kaduna)</td>
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<td>R. L. Giwa</td>
<td>B.Sc. (Maiduguri)</td>
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<tr>
<td>V. C. Alepa</td>
<td>B.Sc. (Ilorin)</td>
<td>Technologist II</td>
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</table>
DEPARTMENT OF GEOPHYSICS

L. I. Nwankwo               B.Sc. (Port Harcourt); M.Sc., Ph.D. (Ilorin)      Senior Lecturer & Ag. Head
S. Olatunji                 B.Sc. (Ed) (Ilorin); M.Sc., Ph.D. (ABU)        Lecturer I
W. O. Raji                  B.Sc., M.Sc. (Ilorin); Ph.D. (Liverpool)       Lecturer I
I. O. Folorunso             B.Sc., M.Sc. (Ilorin)                                Lecturer II
A. K. Olawuyi               B.Sc. (Calabar); M.Sc. (Ilorin)                  Lecturer II
T. O. Adeoye                B.Sc. (Ilorin); M.Tech. (FUTA)                    Assistant Lecturer
Khadijah O. Aluko           B.Sc. (Ilorin); PGD, MAG (Lagos)                 Technologist I
Ifedolapo G. Obadare        B.Sc. (Ilorin); MAG (Lagos)                      Technologist II

DEPARTMENT OF INDUSTRIAL CHEMISTRY

O. O. Dosumu                B.Sc., M.Sc. (Ilorin); Ph.D. (Ibadan)              Reader & Ag. Head
G.A. Olatunji               B.Sc. (OAU); Dip. Chem. Dr. rer. Nat (Berlin)  Professor
F.A. Adekola                B.Sc., M.Sc. (OAU);
Omolara O. Oluwaniyi        B.Sc. M.Sc., Ph.D. (Ilorin)                     Senior Lecturer
F. O. Nwosu                 B.Sc., M.Sc. (Ilorin); Ph.D. (Ibadan)            Senior Lecturer
G. B. Adebayo               B.Sc. (Lagos); M.Sc., Ph.D. (Ilorin)             Senior Lecturer
A. A. Baba                 B.Sc. (Ed.), M.Sc., Ph.D. (Ilorin)             Senior Lecturer
M. F. Zubair B.Sc., M.Sc. (BUK); Ph.D. (LAUTECH) Senior Lecturer
G. V. Awolola B.Sc., (Ilorin); M.Sc. (Ibadan) Lecturer I
H. K. Okoro B.Sc., M.Sc., (Ilorin); Ph.D. (CPUT) Lecturer II
S. A. Adebayo B.Sc., M.Sc. (Ilorin) Lecturer II
F. O. Okeola B.Sc. M.Sc. (Ilorin) Lecturer II
M. O. Bamigboye B.Sc., M.Sc. (Ilorin) Assistant Lecturer
T. O. Abu B. Sc., M.Sc. (Ilorin) Assistant Lecturer
H.F. Babamale B. Sc., M.Sc. (Ilorin) Assistant Lecturer
A. A. Mohammed B. Sc., M.Sc. (Ilorin) Assistant Lecturer
B. O. Orimolade B. Sc. (Ilorin) Assistant Lecturer
O. D. Saliu B. Sc. (Ilorin) Assistant Lecturer
A. B. Adebayo B. Tech. (FUTM); M.Sc. (Ibadan) Chief Technologist
S.A. Ajala PGD., ANIST. Assistant Chief Technologist
C. I. Ozonowe B.Sc. (Ed.) (Nsukka); MPA (Ilorin) Principal Technologist
S.O. Bello B.Sc. (Ilorin) Technologist II

DEPARTMENT OF MATHEMATICS

O.A. Taiwo B. Sc., M. Sc., Ph. D. (Ilorin) Reader & Ag. Head
J.A. Gbadeyan B. Sc. (ABU); M. Math, Ph.D. (Waterloo) Professor
<table>
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<tr>
<th>Name</th>
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<tr>
<td>T.O. Opoola</td>
<td>B. Sc., M. Sc., (Karkov); Ph. D. (Ilorin)</td>
<td>Professor</td>
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<tr>
<td>O. M. Bamigbola</td>
<td>B. Sc. (Ed.), M.Sc., Ph. D. (Ilorin)</td>
<td>Professor</td>
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<td>M. O. Ibrahim</td>
<td>B. Sc., M. Sc., Ph. D. (Ilorin)</td>
<td>Professor</td>
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<td>R. B. Adeniyi</td>
<td>B. Sc., M. Sc., Ph. D. (Ilorin)</td>
<td>Reader</td>
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<tr>
<td>S. O. Makanjuola</td>
<td>B. Sc., M. Sc. (Ibadan); Ph. D. (ABU)</td>
<td>Senior Lecturer</td>
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<td>E. O. Titiloye</td>
<td>B. Sc. (Ed.), M. Sc., Ph. D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<td>A. S. Idowu</td>
<td>B. Sc. (Ed.), M. Sc., Ph. D. (Ilorin)</td>
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<td>M. S. Dada</td>
<td>B. Sc. (Ed.), M. Sc., Ph. D. (Ilorin)</td>
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<tr>
<td>K. Rauf</td>
<td>B. Sc. (Ilorin); M. Sc. (OAU); M.Sc., Ph. D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<td>K.O. Babalola</td>
<td>B. Sc., M. Sc. (OAU); Ph. D. (Ilorin)</td>
<td>Senior Lecture</td>
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<td>Olubunmi A. Fadipe-Joseph</td>
<td>B. Sc., M. Sc. (Ibadan); Ph. D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>Yidiat O. Aderinto</td>
<td>B. Sc. (Ed.), M. Sc., Ph. D. (Ilorin)</td>
<td>Lecturer I</td>
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<tr>
<td>Catherine N. Ejieji</td>
<td>B. Sc. (Nsukka); M.Sc., Ph. D. (Ilorin)</td>
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<td>B. M. Yisa</td>
<td>B. Sc., M.Sc., Ph. D. (Ilorin)</td>
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<td>U. J. Abubakar</td>
<td>B. Sc., M. Sc. (Ilorin)</td>
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<td>H. O. Ibraheem</td>
<td>B. Sc. (Ilorin), M. Sc. (Swansea)</td>
<td>Assistant Lecturer</td>
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<td>K. A. Bello</td>
<td>B. Sc., M. Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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B. M. Ahmed  B. Sc., M. Sc.  (Ilorin)    Assistant Lecturer
N. G. Bakare  B. Sc., M. Sc. (Ilorin)    Assistant Lecturer
T. O. Olotu  B. Sc., M. Sc. (Ilorin)    Assistant Lecturer
O.A. Uwaheren  B.Sc. (Ed.), M.Sc. (Ilorin)    Assistant Lecturer

DEPARTMENT OF PHYSICS

K. J. Oyewumi          B.Sc., M.Sc., Ph.D (Ilorin)                   Reader & Ag. Head
J. O. Adeniyi            B.Sc., Ph.D. (Ibadan)                                     Professor
T. Akomolafe           B.Sc. (OAU), Ph.D (Leeds)                         Professor
C. O. Akoshile             B.Sc. (Ibadan); M.Sc. (Athens Ohio);                Professor
Ph.D. (Dallas)
I. A. Adimula          B.Sc. (Ilorin); M.Sc. (OAU); Ph.D. (Ilorin)      Professor
O. B. Awojoyogbe  B.Sc (EKSU); M.Sc. (OAU); Ph.D. (FUTM)       Professor
E. O. Oyeyemi  B.Sc. (Ilorin); M.Sc.(Lagos); Ph.D. (Rhodes)               Reader
O. A. Falaiye             B.Sc., M.Sc., Ph.D. (Ilorin)                  Senior Lecturer
O. A. Babalola            B.Sc., M.Sc., PGDC, Ph.D. (Ilorin)               Senior Lecturer
O. A. Oladipo             B.Sc.; M.Sc., Ph.D. (Ilorin)                      Senior Lecturer
A. B. Alabi             B.Sc.; (OAU), M.Sc.; Ph.D. (Ilorin)                   Senior Lecturer
T. B. Ajibola             B.Sc.; M.Sc.; Ph.D. (Ilorin)                    Senior Lecturer
T. T. Ibrahim             B.Sc.; M.Sc. (Ilorin), Ph. D. (Stellenbosch)                    Lecturer I
A. O. Olawepo            B.Sc.; (Ibadan), M.Sc.; Ph.D. (Ilorin)                    Lecturer I
T. O. Lawal               B.Sc. (Ilorin); M.Sc. (Ibadan), Ph.D. (Ilorin) Assistant Lecturer
S. O. Ige                 B.Sc. (Ibadan); M.Sc. (Ilorin) Assistant Lecturer
S. A. Bello               B.Sc. (UDUS); M.Sc. (Ilorin) Assistant Lecturer
M. M. Orosun              B.Tech. (MAUTECH) Assistant Lecturer
G. D. Adebanjo            B.Sc. (Ilorin) Assistant Lecturer
S. A. Gideon              B.Sc. (Ilorin); M.Sc. (OAU) Graduate Assistant
N. Partric                B.Sc. (Benin); M.Sc. (Ilorin) Graduate Assistant
I. B. Adewole             HND; NIST; PGD Chief Technologist
Victoria M. Eyeye         HND; NIST; PGD. Technologist I
Adijat F. Shittu          HND Technologist II

DEPARTMENT OF STATISTICS
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<tr>
<th>Name</th>
<th>Qualifications</th>
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<tbody>
<tr>
<td>W. B. Yahya</td>
<td>N.C.E; B.Sc., M.Sc. (Ilorin); PGDFM, MBA (EKSU), Ph.D. (Munich)</td>
<td>Senior Lecturer &amp; Ag. Head</td>
</tr>
<tr>
<td>B. A. Oyejola</td>
<td>B.Sc. (ABU); M.Sc. Ph.D. (Reading)</td>
<td>Professor</td>
</tr>
<tr>
<td>E. T. Jolayemi</td>
<td>B.Sc.(ABU); M.Sc., Ph.D. (Michigan)</td>
<td>Professor</td>
</tr>
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<td>P. A. Osanaiye</td>
<td>B.Sc., M.Sc.(Ibadan); Ph.D. (Essex)</td>
<td>Professor</td>
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<tr>
<td>R. A. Ipinyomi</td>
<td>B.Sc. (ABU); M. Sc. (Ibadan); Ph.D.(Southampton)</td>
<td>Professor</td>
</tr>
<tr>
<td>B. L. Adeleke</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin); Dip. Agric. Stat. (Washington)</td>
<td>Professor</td>
</tr>
<tr>
<td>A. A. Adewara</td>
<td>B.Sc., M.Sc., Ph.D.(Ilorin); PGDE</td>
<td>Senior Lecturer</td>
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<tr>
<td>A. O. Adejumo</td>
<td>B.Sc., M.Sc. (Ilorin); Ph.D. (Munich)</td>
<td>Senior Lecturer</td>
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<tr>
<td>O. O. M. Sanni</td>
<td>N.C.E., B.Sc. (ABU); M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<td>G. M. Oyeyemi</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<td>A. A. Abiodun</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Senior Lecturer</td>
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<tr>
<td>A. O. Abidoye</td>
<td>B.Sc.(Ilorin); M.Sc. (Ibadan); Ph.D. (Ilorin)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>M. K. Garba</td>
<td>NCE, B.Sc. , M.Sc., Ph.D.(Ilorin)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>O. Job</td>
<td>NCE, B.Sc., M.Sc., Ph.D.(Ilorin)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>R. B. Afolayan</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Olakiitan I. Adeniyi</td>
<td>B.Sc., M.Sc.(Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>N. A. Ikoba</td>
<td>B.Sc., M.Sc. (OAU)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>A. W. Banjoko</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
<tr>
<td>Mariam O. Adeleke</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
</tr>
</tbody>
</table>
DEPARTMENT OF CHEMISTRY
Course Description

B.Sc. Chemistry

CHM 101 General Physical Chemistry 3 Credits

45h (T); C

CHM 112 General Organic Chemistry 2 Credits
Historical survey of the development and importance of organic chemistry. Functional groups, nomenclature and classes of organic compounds. Basic organic chemistry reactions of saturated and unsaturated hydrocarbons Stereochemistry of hydrocarbon
compounds. Isolation and purification of organic compounds.

30h (T); C

CHM 115  General Practical Chemistry I  2 Credits
Theory and practice of quantitative chemical analysis, calculation, data analysis and presentation, Acid-base, oxidation-reduction reactions, precipitation and complexometric titrations. Gravimetric analysis.
15h (T); 45h (P), C

CHM 116  General Practical Chemistry II  1 Credit
Qualitative inorganic and organic analysis for elements in Groups IA, IIA, IIIA,IVA, IB, IIB and IIIB. Chemical analysis for functional groups: acidic, ketonic, carboxylic.
45h (P); C

CHM 131  Chemistry and Society  1 Credit
Renewable and non-renewable resources, energy source and depletion. Environmental effects of chemicals. Plastics, textiles and materials for aerospace technology. Chemical and radio-chemical hazards.
15h (T); E

CHM 132  General Inorganic Chemistry  2 Credits
30h (T); C

CHM 212  Basic Physical Chemistry  3 Credits
30h (T), 45h (P); C

CHM 213  Basic Analytical Chemistry  2 Credits
15h (T), 45h (P); C

CHM 235  Basic Organic Chemistry  3 Credits
Substitution reactions in alkanes and alkenes. Electrophilic and nucleophilic substitution reactions in other compounds.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHM 236</td>
<td>Basic Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>30h (T), 45h (P); C</td>
<td></td>
</tr>
<tr>
<td>CHM 301</td>
<td>Chemical Kinetics and Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C, PR: CHM 212, CC: CHM 325</td>
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<tr>
<td>CHM 307</td>
<td>Organometallic Chemistry I</td>
<td>2</td>
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<tr>
<td></td>
<td>Classification of organometallic compounds. Preparation, structure and reactions including abnormal behaviour of organometallic compounds. Synthetic utility of organometallics. Generation and detection of free radicals from organometallic compounds.</td>
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<tr>
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<td>30h (T); E, PR: CHM 235, CHM 236</td>
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<tr>
<td>CHM 312</td>
<td>Polymer Chemistry I</td>
<td>2</td>
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<tr>
<td></td>
<td>15h (T), 45h (P); E</td>
<td></td>
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<tr>
<td>CHM 318</td>
<td>Industrial Chemical Processes I</td>
<td>2</td>
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<tr>
<td></td>
<td>Production of primary intermediates and synthesis of industrial organic chemicals, polymers, adhesives, dyes, explosives, insecticides, herbicides, flavouring agents and pharmaceuticals. Fermentation process.</td>
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<td>15h (T), 45 (P); E</td>
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<tr>
<td>CHM 320</td>
<td>Industrial Chemical Technology I</td>
<td>2</td>
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<tr>
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<td>Heat transfer and mass transfer processes. Unit operations. Chemical technology equipment.</td>
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<td>30h (T); E</td>
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<tr>
<td>CHM 322</td>
<td>Practical Inorganic Chemistry</td>
<td>2</td>
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<tr>
<td></td>
<td>Preparation and structural studies of inorganic and coordination compounds. Use of physical methods, chromatography,</td>
<td></td>
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</tbody>
</table>
magnetometry, mass, infrared and electronic spectroscopy for the characterisation of the compounds.

90h (P); C, CC: CHM 324

CHM 324 Inorganic Chemistry 3 Credits
Comparative chemistry of the following elements (a) Ga, In, Ti, (b) Ge, Sn, Pb, (c) As, Sb, Bi and (d) Se, Te, Po. Chemistry of transition metals, lanthanides and actinides. Ligand and Crystal field theories. Introduction to radio-chemistry. Role of metals in biochemical systems.
45h (T); C, PR: CHM 236; CC: CHM 322

CHM 325 Practical Physical Chemistry 2 Credits
90h (P); C, PR: CHM 212; CC: CHM 301

CHM 328 Environmental Chemistry I 2 Credits
30h (T); C

CHM 329 Practical Organic Chemistry 2 Credits
Preparation of simple organic compounds. Chemical transformations to show the concept of synthesis and mechanisms of organic reactions.
90h (P); C, PR: CHM 235; CC: CHM 331

CHM 330 Natural Products I 2 Credits
Extraction, purification and isolation of natural products. Introduction to structural elucidation of natural products. Classification and chemistry of carbohydrates, terpenes, steroids, glycosides, alkaloids, amino acids, proteins and lipids.
30h (T); C, PR: CHM 235

CHM 331 Organic Chemistry 3 Credits
45(T); C, PR: CHM 235; CC: CHM 329
CHM 334  Colour and Textile Chemistry 2 Credits
15h (T); 45h (P), E

CHM 336  InstrUMENTal Methods of Analysis 2 Credits
Basic principles and applications: flame photometry, atomic absorption photometry, X-Ray method, fluorescence and phosphorescence, refractometry, polarimetry, colorimetry, voltametry and electrophoresis.
15h (T), 45h (P); C

CHM 340  Industrial Raw Materials Resource Inventory 1 Credit
15h (T); E

CHM 341  Quantum Chemistry I 3 Credits
Historical development of atomic structure. Schrodinger's equation and its application to simple systems including the hydrogen atom. Spectroscopic states of atoms and atomic spectra. Theory of chemical bonding: molecular orbital theory, valence bond theory and Huckel molecular orbital theory.
45h (T); C, PR: CHM 212, 236

CHM 342  Industrial Management 2 Credits
Industrial group and organisational behaviour. Motivation industrial law, legislation in wages, trade marks and patents. An introduction to the concepts and procedures of decision making in the management of business operations.
30h (T); E

CHM 343  Organic Reaction Mechanisms 2 Credits
Studies of types and mechanisms involved in substitution, elimination, addition and rearrangement reactions of aliphatic and aromatic compounds, and natural products. Oxidation and reduction mechanisms. Reactions of the intermolecular and intramolecular cyclisation types and stereochemical considerations.
30h (T); E, PR: CHM 235

CHM 344  Surface and Colloid Chemistry 2 Credits
Some general principles relating to surfaces. Electrical potentials. Attractive forces, solid-gas interface liquid-liquid interface and
solidliquid interface. Definition of colloid and history of colloid development. Types of colloids, polymers, proteins, gels, association colloids and detergent.

30h (T); E

CHM 345  **Applied Spectroscopy**  
2 Credits  
Basic principles and applications of UV, IR, NMR and Mass spectroscopy in the determination of the constitution and elucidation of structures of compounds.
15h (T), 45h (P); C

CHM 401  **Theory of Molecular Spectroscopy**  
2 Credits  
Basic principles of spectroscopy theory: Basic instrumentation and applications of microwave, infrared and Raman, nuclear magnetic resonance (NMR), electron spin resonance (ESR), electronic Mossbauer spectroscopy and some latest spectroscopic techniques.
30h (T); C, PR: CHM 341

CHM 402  **Quantum Chemistry II**  
2 Credits  
30h (T); E, PR: CHM 341

CHM 404  **Statistical Thermodynamics**  
2 Credits  
30h (T); E, PR: CHM 301, 341
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHM 406</td>
<td>Electrochemistry</td>
<td>2</td>
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<tr>
<td></td>
<td>Conductance of electrolyte solutions, transport number and the migration of ions in an electric field. Thermodynamics of electrolyte solutions. Electrochemical cells and electrode processes.</td>
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<td>30h (T); C, PR: CHM 301</td>
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<tr>
<td>CHM 415</td>
<td>Environmental Chemistry II</td>
<td>2</td>
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<td>15h (T), 45h (P); E, PR: CHM 328</td>
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<tr>
<td>CHM 418</td>
<td>Heterocyclic Chemistry</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E, PR: CHM 331</td>
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</tr>
<tr>
<td>CHM 419</td>
<td>Physical Organic Chemistry</td>
<td>2</td>
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<tr>
<td></td>
<td>Preparation and reactions of stereoisomers. Stereo selectivity, neighbouring group effects and a few special topics in physical organic chemistry.</td>
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<td>30h (T); E, PR: CHM 345</td>
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<tr>
<td>CHM 420</td>
<td>Preparative Organic Chemistry</td>
<td>2</td>
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<tr>
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<td>Modern methods in the synthesis of organic compounds. Selected literature to illustrate modern principles and approaches to synthesis. Thermal, photolytic and sigmatropic rearrangements. Fragmentations.</td>
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<td></td>
<td>30h (T); E, PR: CHM 331</td>
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<tr>
<td>CHM 423</td>
<td>Coordination Chemistry</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T), C, PR: CHM 324</td>
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<tr>
<td>CHM 424</td>
<td>Non-aqueousSolvent</td>
<td>2</td>
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</tbody>
</table>
CHM 425 Reaction Kinetics  2 Credits
Chain reaction mechanisms. Catalysis and heterogeneous reactions. Photochemical reaction mechanisms.
30h (T); E, PR: CHM 301

CHM 427 Inorganic Reaction Kinetics and Mechanisms  2 Credits
Redox reactions; Mechanisms of electron transfer reactions: Outer-and inner-sphere mechanisms. Substitution reactions. General mechanism of square planar complexes of Pt (II) and other d^8 metal ions. Substitution reactions in octahedral complexes.
30h (T); E, PR: CHM 301

CHM 429 Seminar  1 Credit
Literature search. Presentation of seminars on comprehensive literature reviews of selected topics of research interests.
45h (P), C

CHM 430 Radio-Nuclear Chemistry  2 Credits
30h (T); E, PR: CHM 301

CHM 431 Colour Chemistry and Textile Technology  2 Credits
Chemistry and application of reactive dyes. Dyeing machineries. Colouring matters for food, drugs, ceramics, cosmetics, paper and colour photography.
15h (T), 45h (P); E, PR: CHM 301

CHM 432 Industrial Chemical Technology II  2 Credits
30h (T); E, PR: CHM 301

CHM 434 Medicinal Chemistry  2 Credits
Chemistry, synthesis, structure-activity relationship and medicinal use of sulfonamides, sulphones, antibiotics, antimalarials, amoebicides, triponocides, antihelminthics, antineoplastics and antiviral agents. Chemistry, synthesis, structure activity
relationships, synthesis analogue and medicinal use of alkaloids, glycoside, lipids and volatile oils.  
30h (T), E; PR: CHM 330

CHM 437 Photochemistry and Pericyclic Reaction 2 Credits  
15h (T), 45h (P); E, PR: CHM 324, 343

CHM 438 Organometallic Chemistry II 2 Credits  
Introduction to organometallic compounds of the transition elements. Classification of ligands, electron rule, bonding, preparation of organic transition metal compounds. Reaction and structures of organometallic compounds of transition elements. The organic chemistry of ferrocene and related compounds. The role of organometallic compounds in some catalytic reactions.  
30h (T); E, PR: CHM 324

CHM 439 Analytical Chemistry II 2 Credits  
15h (T), 45h (P); E, PR: CHM 336

CHM 440 Polymer Chemistry II 2 Credits  
15h (T), 45h (P); E, PR: CHM 312

CHM 441 Industrial Chemical Processes II 2 Credits  
30h (T); E, PR: CHM 340

CHM 442 Natural Product II 2 Credits  
Chemistry of natural products of pharmaceutical importance, terpenoids, steroids, alkaloids, flavanoids, prostagladins and chlorophylls. General and specific methods of isolation, separation, purification and structure determination by chemical and spectroscopic methods. Biosynthesis of selected examples.  
30h (T), C, PR: CHM 330
CHM 443  Molecular Polyhedra  2 Credits
Boron hydrides and caged compounds, homocyclic and heterocyclic inorganic rings, phosphorous and nitrogen compounds, sulphur and nitrogen compounds, etc. Metal-metal bonds and metal clusters.
30h (T); E, PR: CHM 324

CHM 444  Symmetry and Group Theory  2 Credits
Symmetry elements, operations and point groups. Group representations and point group character tables. Applications of group theory to molecular vibrations and chemical bonding.
30h (T); C, PR: CHM 341

CHM 499  Project  5 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department, culminating in the submission of a project.
225h (P), C
SUMMARY

100 Level

Compulsory Courses: CHM 101 (3), 112 (2), 115 (2), 116 (1), 132 (2) = 10 Credits

Required Courses: MAT 111 (3), 113 (3), PHY 115 (2), 142 (2), 191 (1), 192 (1),
(2), 106 (2), PLB 108 (3), CSC 111 (2), GNS 111 (2), 112 (2)
= 25 Credits

Total = 35 Credit

200 Level

Compulsory Courses: CHM 212 (3), 213 (2), 235 (3), 236 (3) = 11 Credits

Required Courses: MAT 201 (3), 205 (2), CSC 211 (2), STA 203 (2), 205 (2), GNS 211 (2), 212 (2), PHY 214 (2), 243 (2), 295 (1), 298 (1)
= 21 Credits

Direct Entry Students: GNS 111 (2), 112 (2) = 4 Credits

Total = 32 Credits

DE = 36 Credits

300 Level

Compulsory Courses: CHM 301 (3), 322(2), 324 (3), 325 (2), 328 (2), 329 (2), 330 (2), 331 (3), 336 (2), 341 (3), 345 (2)
= 26 Credits

Required Courses: GNS 311 (2), GSE 301 (3) = 5 Credits

Electives Courses: At least 10 Credits from the following courses:
CHM 343 (2), 307 (2), 312 (2), 334 (2), 344 (2), 340 (1), 318 (2),
320 (2), 342 (2), ICH 343 (2)
= 10 Credits

Total = 41 Credits

400 Level

Compulsory Courses: CHM 401 (2), 406 (2), 423 (2), 429 (1), 442 (2), 444 (2), 499 (5)
Elective Courses: 14 Credits from either group A or B
Group A: CHM 402 (2), CHM 415 (2), 419 (2), 427 (2), 430 (2), 432 (2), 434 (2), CHM 440 (2), CHM 443 (2)
Group B: 404 (2), CHM 418 (2), 420 (2), 425 (2), 431 (2), 437 (2), 438 (2), 439 (2),441 (2), CHM 424 (2),

= 14 Credits

Total = 30 Credits

Graduation Requirements

UTME = 138 Credits
DE = 107 Credits
DEPARTMENT OF GEOLOGY AND MINERAL SCIENCES

Course Description

B.Sc. Geology

GEM 104 Earth History 2 Credits
15h (T), 45h (P); C

GEM 106 Introduction to Geology 2 Credits
15h (T), 45h (P); C

GEM 202 Optical Mineralogy 2 Credits
15h (T), 45h (P); C

GEM 205 General Petrology 2 Credits
Magma: ascent and emplacement. Textures, structures and classification of igneous rocks. Metamorphism and Metamorphic rocks. Textures, structures and classification of sedimentary rocks.
15h (T), 45h (P); C

GEM 208 Introduction to Field Geology 2 Credits
Fieldwork requirements and preparation. Types and uses of locationing and directional equipment. Field observations and measurements: lithologies, structures, modes of occurrence and accessibility. Techniques of sampling and storage of geological materials. Data recording and geological interpretations.
90h (P); C

GEM 209 Introduction to Structural Geology and Map Interpretation 2 Credits

15h (T), 45h (P); C

GEM 211  Crystallography and Mineralogy  2 Credits

15h (T), 45h (P); C

GEM 213  Physical Geology  1 Credit

15h (T); C

GEM 217  Principles of Stratigraphy  1 Credit

15h (T); C

GEM 222  Mineral Resources and Environmental Geology  2 Credits

30h (T); C

GEM 224  Introduction to Paleontology  2 Credits

15h (T), 45h (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GEM 304</td>
<td>Geotectonics</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Concept and evidence for plate tectonics. Paleomagnetism. Continental drift, sea floor spreading and mid-ocean ridges. Island arcs and transform faults. Plate tectonics in space and time.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>GEM 306</td>
<td>Geophysics</td>
<td>2</td>
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<tr>
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<td>Gravity, magnetism, resistivity and seismology. Geophysical techniques in geological exploration. Interpretation of geophysical data.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>GEM 307</td>
<td>Geochemistry</td>
<td>2</td>
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<tr>
<td></td>
<td>Basic principles of geochemistry. Origin, structure and composition of the earth. Distribution of elements in the cosmic system. Geochemistry of different rock types. Weathering processes especially in tropical regions. Isotope geochemistry.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>GEM 311</td>
<td>Igneous Petrology</td>
<td>2</td>
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<tr>
<td></td>
<td>15h (T), 45h (P); C, PR: GEM 205</td>
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<tr>
<td>GEM 317</td>
<td>Structural Geology</td>
<td>3</td>
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<td>30h (T); 45h (P); C, PR: GEM 209</td>
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<tr>
<td>GEM 319</td>
<td>General Geology for Engineers</td>
<td>3</td>
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<td>30h (T); 45h (P)</td>
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</table>
GEM 320 Photogeology and Remote Sensing 2 Credits
15h (T), 45h (P); C

GEM 321 Regional Geology of Africa 2 Credits
30h (T); C

GEM 326 Advanced Geological Mapping 3 Credits
A 4-week independent geological mapping in selected geological province.
135h (P); C, PR: GEM 208

GEM 327 Metamorphism Petrology 3 Credits
30h (T), 45h (P); C, PR: GEM 205, GEM 211

GEM 328 Sedimentology I 3 Credits
30h (T), 45h (P); C, PR: GEM 205, GEM 211, GEM 217

GEM 398 Students’ Industrial Work Experience Scheme 3 Credits
A 3-month industrial attachment.
135h (P); C

GEM 401 Seminar 1 Credit
A comprehensive literature review on a selected topic.
45h (P); C
GEM 408  Hydrogeology  3 Credits
30h (T), 45h (P); C

GEM 410  Paleobiology  2 Credits
30h (T); C

GEM 411  Mineral Deposits Geology  3 Credits
Systematic study of solid and energy mineral deposition and genesis. Geological exploration techniques and applications. Solid and energy mineral deposits of Nigeria.
30h (T), 45h (P); C

GEM 414  Applied Geophysics  3 Credits
30h (T), 45h (P); C, PR: GEM 306

GEM 416  Applied Geochemistry  3 Credits
30h (T), 45h (P); E, PR: GEM 307

GEM 417  Geological Field Trip  2 Credits
A 2-week extended field excursion to the three major geological provinces of Nigeria.
90h (P); C
GEM 420  Marine Geology  3 Credits
Elements of physical, chemical and biological oceanography. Ocean floor: probing, structure, physiography and sampling. Geology of ocean basins. Distribution of marine sediments and mineral resources. Beach erosion and coastal management.

30h (T), 45h (P); C

GEM 421  Palynology  3 Credits

30h (T), 45h (P); C

GEM 424  Sedimentology II  3 Credits
Depositional systems. Palaeocurrents and basin analysis.

30h (T), 45h (P); E, PR: GEM 328

GEM 425  Mining Geology  3 Credits

30h (T), 45h (P), E, PR: GEM 222, GEM 317

GEM 427  Petroleum Geology  3 Credits

30h (T), 45h (P); C, PR: GEM 328, GEM 321

GEM 429  Micropaleontology  3 Credits
GEM 437  Engineering Geology 3 Credits
30h (T), 45h (P); C

GEM 499  Project 5 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.
225h (P); C
SUMMARY

100 Level

Compulsory Courses:  GEM 106 (2), 104 (2)  = 4 Credits


Elective Courses:  At least 2 credits from the following: CSC 111 (2), 112 (2)  = 2 Credits

Total = 41 Credits

200 Level

Compulsory Courses:  GEM 202 (2), 205 (2), 209 (2), 208 (2), 211 (2), 213 (1), 217 (1), 222 (2), 224 (2)  = 16 Credits

Required Courses:  CHM 212 (3), 213 (2), PHY 243 (2), 293 (2), STA 203 (2), 206 (2),  GNS 211 (2), 212 (2), CVE 351 (3)  = 20 Credits

Direct Entry Students:  GNS 111 (2), 112 (2), GEM 104 (2), 106 (2)  = 8 Credits

Total  = 36 Credits

DE  = 44 Credits

300 Level

Compulsory Courses:  GEM 304 (2), 306 (2), 307 (2), 311 (2), 327 (3), 328 (3), 317 (3), 320 (2), 326 (3), 398 (3)  = 27 Credits

Required Courses:  CSC 211 (2), 218 (2), GNS 311 (2), GSE 301 (3)  = 9 Credits

Electives Courses:  At least 2 credits from the following: CHM 301 (2), 324 (3), 328 (2), 336 (2)  = 2 Credits
Total = 38 Credits

400 Level

Compulsory Courses: GEM 401 (1), 408 (3), 410 (2), 411 (3), 414 (3), 417 (2), 421 (3), 420 (3), 427 (3), 429 (3), 437 (3), 499 (5) = 34 Credits

Elective Courses: GEM 416 (3), 424 (3), 425 (3)

Total = 34 Credits

Graduation Requirements

UTME = 149 Credits

DE = 116 Credits

DEPARTMENT OF GEOPHYSICS

Course Description

B.Sc. Applied Geophysics

GPH 208 Introduction to Field Geology 2 Credits
Fieldwork requirements and preparation. Types and uses of locationing and directional equipment. Field observations and measurements lithologies, structures, modes of occurrence and accessibility, etc. Techniques of sampling and storage of geological materials. Data recording and geological interpretations 90h (P); C

GPH 212 Introduction To Earth Physics 2 Credits
Origin of the Earth. The Earth interior – the crust, the mantle and the core. Seismicity and earthquake zones. Occurrence of earthquakes, earthquake epicenter, seismically active zones, earthquake prediction. The nature of the gravity field of the earth. The measurement of gravity and the figure of the earth. The earth’s magnetic field. Rock magnetism. Polar wandering and continental drift. Heat flow and geothermometry, geothermal gradient, geothermal exploration. 30h (T); C

GPH 222 Introductory Geomathematics 2 Credits

30h (T); C

**GPH 234**  
**Introduction to Geophysical Methods**  
2 Credits  
Basic theories of Magnetic, Gravity, Seismic, Radiometric, Electrical and Electromagnetic Methods, Ground Penetrating Radar (GPR), Tomography

30h (T); C

**GPH 311**  
**Electrical Methods**  
2 Credits  

15h (T), 45h (P); C

**GPH 323**  
**Magnetic Method**  
2 Credits  

15h (T), 45h (P); C

**GPH 335**  
**Gravity Method**  
2 Credits  
gravity anomalies. Depth and total mass estimates. Applications of gravity method in mineral exploration, groundwater and geologic mapping.

15h (T), 45h (P); C

GPH 384: Geophysical Field Methods and InstrUMENTal Analysis 4 Credits
Study of the essential elements of geophysical data acquisition systems. Seismic surveys using explosive or surface sources. Signal amplification, multiplexed, etc. methods in Electrical prospecting. Elements of currents and voltage measurement circuitries. Field surveys using gravimeters. Field procedures for the different EM methods. Geophysical Logging InstrUMENTs and methods. InstrUMENT circuitry in Induced Polarization Prospecting Methods.

30h (T), 90h (P); C

GPH 386 Geophysical Field Work 5 Credits
This is an independent geophysical field work lasting 3-4 weeks during the fourth year inter semester break. Students are expected to be exposed to geophysical data acquisition (using different geophysical equipment), data presentation and interpretation, with respect to each method. The field work will also include geological mapping and map interpretation. A report on this exercise shall be written and submitted at the beginning of the second semester of the third year.

15h (T), 180h (P); C

GPH 388 Industrial Experience (Report) 4 Credits
Having undergone industrial training, well supervised by both industry-based supervisors and Unilorin staff, individual student is expected to write a comprehensive activity report encompassing all the knowledge acquired in the course of the training.

15h (T); 135h (P); C

GPH 398 Industrial Experience 5 Credits
Students are expected to undergo at least six (6) months industrial training in industries relevant to any of the branches of geophysics, with a view to develop more practical skills in the discipline. Students are supervised during the training period and shall be expected to keep log books and other records designed for the purpose of monitoring students’ performance. Students’ work will be assessed and graded by both the industry-based supervisor and UNILORIN Staff during the period of the industrial training and experience.

15h (T), 180h (P); C

GPH 347 Seismic Methods 2 Credits

15h (T), 45h (P); C

GPH 359  Electromagnetic Methods and Ground Penetrating Radar  3 Credits

30h (T), 45h (P); C

GPH 409  Radiometric Method  1 Credit

15h (T); C

GPH 411  Seminar  1 Credit
Use of library and electronic media (such as internet) for literature search, survey and, scientific writing, presentation of seminars on selected geophysical topics.

45h (P); C

GPH 412  
Borehole Geophysics  
3 Credits
General concepts of borehole geophysics. Fluid invasion. Electrical methods (Resistivity logging, Self-potential (SP) logging, Dipmeter, Induction logging, Induced polarization logging), Radioactivity methods (Gamma-ray logging, Density log, Neutron logging), Elastic-wave propagation methods (Sonic log), Magnetic methods, Gravity logging, Caliper logging. Field examples. Interpretation of logs, application of geophysical logs in oil and ground water exploration.

45h (T); C

GPH 423  
Geophysical Time Series Analysis  
2 Credits

45h (T); C

GPH 424  
Special Topics And Case Histories  
3 Credits
Topics are selected to illustrate recent advances and developments in Applied Geophysics in any of the following areas: Modelling, Time Series Analysis and Filters. Integrated geophysical methods in oil and ore prospecting. Choice of methods in a geophysical survey. Composite surveys in regional structural mapping, oil prospecting and searching for ores. Examples of combined geophysical programmes and case histories.

30h (T), 45 (P); C

GPH 435  
Engineering Geophysics  
2 Credits
Review of near-surface geophysical methods. Applications of geophysics in civil engineering site investigations—foundation problems in buildings, hydraulic structures, highways/runways/railways, underground/surface storage facilities. Location of construction materials. Investigation of integrity of existing engineering structures (e.g. earth embankment), Geophysical investigations for spread footing and pile foundations. Scope and limitations of engineering geophysics in site investigations.

15h (T), 45 (P); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPH 447</td>
<td>Remote Sensing and Geographic Information System</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Principles and methods of remote sensing.</td>
<td></td>
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<tr>
<td></td>
<td>Interpretations of aerial photographs.</td>
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<tr>
<td></td>
<td>Satellite imagery and their interpretation LANDSAT, SPOT, Radar.</td>
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<tr>
<td></td>
<td>30h (T), 45h (P); C</td>
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</tr>
<tr>
<td>GPH 448</td>
<td>Seismic Exploration</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>This course covers a range of topics relevant to seismics exploration.</td>
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<tr>
<td></td>
<td>45h (T); C</td>
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<tr>
<td>GPH 436</td>
<td>Groundwater and Environmental Geophysics</td>
<td>3</td>
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<tr>
<td></td>
<td>Groundwater occurrence and movement.</td>
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<tr>
<td></td>
<td>45h (T); C</td>
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<tr>
<td>GPH 459</td>
<td>Field Safety and First Aid</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Meaning and scope of First Aid.</td>
<td></td>
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<td></td>
<td>Concept and significance of Safety Education.</td>
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<tr>
<td></td>
<td>Types of accidents and implications, First aid treatments of physical injuries, unconsciousness and respiratory arrest. Artificial respiration and cardiopulmonary resuscitation, Emergency care for victims of foreign bodies in the ear, eyes, and nose, Practical demonstration of Safety measures and First Aid practices.</td>
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<tr>
<td></td>
<td>15h (T); C</td>
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<tr>
<td>GPH 450</td>
<td>Earthquakes and Plate Tectonics</td>
<td>3</td>
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<tr>
<td></td>
<td>30h (T); R</td>
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</tr>
</tbody>
</table>
GPH 471  Applied Geophysics for Geologists And Engineers I 3 Credits

GPH 472  Applied Geophysics For Geologists And Engineers II 3 Credits
Induced Polarization method. Electromagnetic method. Classification of Electromagnetic methods. Exploration Seismology Fundamental of seismic Reflection and Refraction geophysical methods. Basic Theories. Field Procedures, Data Acquisition, Processing and Interpretation. Applications of above methods in mineral, petroleum and groundwater exploration, environmental and engineering studies. Case histories, including local examples. 45h (T); C (Designed for students of Geology and Engineering).

GPH 499  Project 5 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the department, culminating in the submission of a project. 15h (T), 180h (P); C
SUMMARY

100 Level

Required Courses: CHM 101 (3), 115 (2), CSC 111 (2), 112 (2), GNS 111 (2), 112 (2), MAT 111 (3), 112 (3), 113 (3), PHY 115 (2), 125 (3), 142 (2), 152 (3), 191 (1), 192 (1), GEM 104 (2), 106 (2)

Total = 38 credits

200 Level

Compulsory Courses: GPH 212 (2), 222 (2), 234 (2) = 6 Credits

Required Courses: GEM 209 (2), 205 (2), 208 (2), 213 (1), 217 (1), 222 (2), 224 (2), GNS 211 (2), 212 (2), MAT 211 (3), 212 (3), PHY 225 (2), 295 (1), 243 (2), 252 (2), 298 (1), STA 203 (2), SVG 201 (2)

= 34 Credits

Direct Entry Students: GNS 111 (2), 112 (2), GEM 106 (2), 104 (2)

= 8 Credits

Total = 40 Credits

DE = 48 Credits

300 Level

Compulsory Courses: GPH 311(2), 323 (2), 335 (2), 347 (2), 359 (3), 398 (5), 388 (4), 384 (4), 386 (5)

= 29 Credits

Required Courses: GNS 311 (2), GSE 301 (3), CSC 211 (3) GEM 311 (2), 317 (3)

= 13 Credits

Total = 42 Credits

400 Level


= 28 Credits

Required Courses: GEM 304 (2), 427(3), 425 (3), 328 (3)

= 11 Credits

Elective Courses: ECN 405(2), PHY 474 (2)
Graduation Requirements
UTME = 159 Credits
DE = 129 Credits

Total = 39 Credits
### B.Sc. Industrial Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICH 101</td>
<td>Basic Principles of Chemical Processes</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>15h (T); C</td>
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</tr>
<tr>
<td>ICH 201</td>
<td>Industrial Drawing</td>
<td>2</td>
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<tr>
<td></td>
<td>Lettering, dimensioning, loci, camp profile true length. Auxiliary views, orthogonal projection.</td>
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<td></td>
<td>30h (T), 45h (P); C</td>
<td></td>
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<tr>
<td>ICH 202</td>
<td>Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>30h (T), 45h (P); C</td>
<td></td>
</tr>
<tr>
<td>ICH 203</td>
<td>Introduction to Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Introduction to theory of sampling and errors, Preparation of Standard solutions, chemical methods of analysis including volumetric, gravimetric, Complexiometric, Redox and Kinetic methods. Solvent extraction and Chromatographic techniques. Chemical quality Assurance.</td>
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<tr>
<td></td>
<td>30h(T), 45h (P); C</td>
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</tr>
<tr>
<td>ICH 204</td>
<td>Chemical Industry and Society</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>15h (T); C</td>
<td></td>
</tr>
<tr>
<td>ICH 205</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
</tbody>
</table>
**Mechanism and Reactivity:** Modes of bond formation and fission. Types of reagent. Types of reactions. Electronic and steric effects. Kinetic and thermodynamic control of reaction. Elementary concepts of acidity and basicity.

*ICH 206 Environmental Pollution 1*  
2 Credits  

*ICH 208 Safety Methods in the Laboratory*  
2 Credits  

*ICH 212 Inorganic Chemistry I*  
3 Credits  
Solid state structures of simple AB and AB$_2$ type compounds of the s, p and d block elements. Periodicity of the elements illustrated by a study of their simple compounds, the hydride acids and halides. The solution properties of the compounds including solvation, solute/solvent interaction and redox reactions.

*ICH 311 Unit Operations*  
2 Credits  
Introductory fluid mechanics and fluid handling processes. Physicochemical industrial processes: grinding, size-reduction, filtration, distillation and solvent extraction processes.

*ICH 315 Inorganic Chemistry II*  
2 Credits  
Chemistry of s- and p-block elements: Relations between electronic structure, size and reactions of compounds. Chemistry of d- and f- block elements: Detection, nomenclature and isomerism of complex compounds. Crystals field theory, d-d spectra detection, nomenclature and isomerism of complex compounds. Crystal field theory, d-spectra, molecular orbital and valence bond theories. Comparative study of the chemistry of the transition elements and their compounds Lanthanides and actinides.
ICH 317  Industrial Chemistry Laboratory I  2 Credits
An integrated laboratory course covering basic laboratory techniques: distillation, reflux, chromatography, solvent extraction, food analysis.
90h (P); C

ICH 321  Applied Chemical Thermodynamics and Kinetics  3 Credits
45h (T); C, PR: ICH 202

ICH 323  Heat Transfer  2 Credits
30h (T); C, PR: ICH 202

ICH 325  Industrial Management  2 Credits
30h (T); C

ICH 326  Industrial Training  6 Credits
All candidates enrolled in the B.Sc. Industrial Chemistry Programme are required to proceed on industrial attachment for 6 months (1-Tier SIWES programme)during Rain semester and long vacation. All students enrolled in this course would be required to submits a report and give presentation at the end of their period of attachment. The grading will normally be based on the reports, seminars and assessment of the industry-based supervisor.
270h (P); C

ICH 327  Organic Chemistry II  2 Credits
Chemistry of oxygen containing organic compounds e.g. alcohol, ether and epoxides. Organic acids and derivatives. Organic functional groups present in Industrial products. Formation of carbanions and their reactions. Aromatics, alicyclic and heterocyclic compounds chemistry. Polyfunctional compounds.
30h (T); C, PR: ICH 212
ICH 341  Instrumental Analytical Methods  2 Credits
30h (T); C

ICH 347  Experimental Physical Chemistry  1 Credit
Study of rate of chemical reactions, thermochemistry, conductance of electrolyte solutions, phase equilibria of solid-solid and liquid-liquid mixtures, solubility and viscosity measurements.
45h (P); C, CC: ICH 321, PR: ICH 202

ICH 355  Experimental Organic Chemistry  1 Credit
Preparation of simple organic compounds and simple oleochemicals, analysis of petroleum chemicals.
45h (P); C, CC: ICH 327, PR: ICH 205

ICH 401  Separation Methods  2 Credits
Samples preparation, Solvent extraction, Solid-phase Micro extraction, Chromatography techniques including Ion-exchange, High performance liquid, adsorption, Gas, size exclusion and Super critical chromatography. Applications to the analysis of environmental samples.
30h (T); C

ICH 402  Applied Surface and Colloid Chemistry  2 Credits
30h (T); E

ICH 403  Mineral Processing  2 Credits
30h (T); C

ICH 404  Applied Electrochemistry  2 Credits
ICH 405  Applied Spectroscopy  2 Credits
Basic principles and applications of UV, IR, NMR and Mass spectroscopy in the determination of the constitution and elucidation of structures of compounds.
15h (T); 45h (P); C

ICH 415  Industrial Methodology  2 Credits
30h (T); C

ICH 421  Basic Industrial Chemicals  2 Credits
Industrial manufacture of sulphuric, nitric and hydrochloric acids, caustic soda, sodium bicarbonate; ammonia, chlorine products; Products of electrolysis. Mineral ore dressing, calcinations, roasting and smelting. Iron and steel, titanium and titanium dioxide; soda ash; fluorspar. Manufacture of industrial gases including Hydrogen, nitrogen, oxygen, noble gases.
30h (T); E

ICH 422  Water and Waste Water Treatment  2 Credits
30h (T); E

ICH 423  Food Analysis and Processing  2 Credits
Analysis of food samples for trace elements, vitamins and protein and food safety. Food preservation and packaging, preservation by fermentation, concentration, drying and dehydration and by chemical agents. Investigation of packaging types related to use with various food systems and packaging permeability. Food poisoning and problem of nutrient deficiencies.
30h (T); E

ICH 424  Radiochemistry and Nuclear Chemistry  2 Credits
ICH 425  Catalysis  
30h (T); E, PR: ICH 202

ICH 426  Non-Aqueous Solvents  
30h (T); E, PR: CHM 324

ICH 427  Seminar  
Literature search. Presentation of seminars on comprehensive literature reviews of selected topics of research interest.  
45h (P); C

ICH 428  Cement and Glass Technology  
30h (T); E

ICH 429  Carbohydrate Chemistry  
Carbohydrates: Monosaccharide’s, disaccharides, polysaccharides – structures, properties, synthesis and applications. Introduction to glycosides.  
30h (T); E

ICH 431  Macromolecular Chemistry  
Classification of macromolecules; polymers and copolymers as natural, modified natural or synthetic substances. Polymer formation processes; methods, kinetics and mechanisms. The characterization of macromolecules; molar mass and distribution,

ICH 432  Polymer Technology  2 Credits
Polymer characterization, criteria for polymer solubility, chain conformation, thermodynamics and phase equilibrium. Molecular weight size and distribution: Rheology of polymers: Mechanical properties and viscoelasticity, structure property relationships. Polymer types: thermosetting elastomers, plasticizers, resins and extrusion, spinning, vulcanization and reinforcement. Blow and injection moulding. Casting, testing and quality control: Chemical analysis. Birefringence measurement physical testing.

ICH 435  Quality Control  2 Credits
Statistical quality control: Control charts, reliability and process capability analysis. Total quality management. National and international quality standards. Quality control practices in food processing, chemical and allied industries.

ICH 436  Lubricant Technology  2 Credits
Lubrication fundamentals, types of lubricants, mineral base oils, synthetic and biological (natural) base stocks, lubricant additives, lubricant specification and classification, engine oil classification based on end-users, lubricant testing, lubricant and the environments.

ICH 438  Detergent and Cosmetics Chemistry  2 Credits
Surfactants and emulsifiers: types, preparations, properties and industrial applications. Cosmetics: preparations, properties and applications of cosmetics: face powder, creams, lotions, hair care products and lipsticks. Legal consideration and regulatory procedures governing cosmetics.

ICH 442  Petroleum Chemistry  2 Credits
Composition, classification and properties of petroleum and petroleum gases. Processing of petroleum and hydrocarbons. Preparation and chemical transformation of primary petrochemicals.

ICH 457  Fertilizers and Agrochemicals  2 Credits
Chemistry of organic and synthetic fertilizers, insecticides, herbicides, fungicides and growth regulators. Recent trends in the synthesis and structural elucidation of commercial fertilizers and pesticides. Effects of abuse of fertilizers and pesticides on the environment.
30h (T); E

ICH 458  Medicinal Plant Products  2 Credits
Chemistry, synthesis, structural-activity relationships, synthetic analogues and medicinal use of alkaloids, glycoside lipids and volatile oils.
30h (T); E

ICH 461  Environmental Pollution II  2 Credits
30h (T); E, PR: ICH 356

ICH 463  Industrial Chemistry Laboratory II  2 Credits
An integrated laboratory course covering detergents and cosmetics, fertilizers and pesticides, environmental pollution, surface chemistry and electrochemistry, textile, sugar and polymer technology.
90h (P); C, PR: ICH 354

ICH 464  Sugar Technology  2 Credits
30h (T); E

ICH 465  Textile and Colour Chemistry  2 Credits
30h (T); E

ICH 466  Organometallic Chemistry  2 Credits

30h (T); E

ICH 499 Project 5 Credits

A selection of topics will be organized and made available to students at the beginning of 7th semester. The project topics may involve research in the laboratory, library search or an industrially based topic discovered during the period of attachment. Each student will be supervised by one member of the academic staff. The results of the project are to be presented in a typed bound dissertation which will be orally examined at the end of the 8th semester.

225h (P); C
SUMMARY

100 Level
Compulsory Courses: ICH 101 (1) = 1 Credit

Required Courses: CHM 101 (3), CHM 112 (2), CHM 132 (2), CHM 115 (2), CHM 116 (1), MAT 111 (3), MAT 112 (3), PHY 115 (2), PHY 142 (2), PHY 191 (1), PHY 192 (1), ZLY 103 (2), PLB 108 (3), CSC 111 (2), GNS 111 (2), GNS 112 (2) = 33 Credits

Total = 34 Credits

200 Level
Compulsory Courses: ICH 201 (2), ICH 203 (3), ICH 204 (1), ICH 206 (2), ICH 208 (1), ICH 205(3), ICH 202(3), ICH 212(3) = 18 Credits

Required Courses: MAT 201 (3), MAT 206 (2), PHY 214 (2), PHY 243 (2), PHY 295 (1), PHY 298 (1), CSC 211 (2), STA 203 (2), GNS 211 (2), GNS 212 (2)

= 19 Credits

Total = 37 Credits

Direct Entry Students: GNS 111(2) and GNS 112(2) = 4 Credits

Total = 41 Credits

300 Level
Compulsory Courses: ICH 311 (2), ICH 321 (3), ICH 315 (2), ICH 323 (2), ICH 317 (2), ICH 325 (2), ICH 341 (2), ICH 326 (6), ICH 355(1), ICH 347(1), ICH 327(2)

= 25 Credits

Required Courses: GNS 311 (2), GSE 301(3)

= 5 Credits

Total = 30 Credits

400 Level
Compulsory Courses: ICH 402 (2), ICH 404 (2), ICH 499 (5), ICH 415 (2), ICH 427 (1), ICH 401 (2), ICH 463 (2), ICH 405 (2)

= 20 Credits
Elective Courses: A minimum of 6 credits from the following: ICH 421 (2), ICH 422 (2), ICH 423 (2), ICH 461 (2), ICH 424 (2), ICH 425 (2), ICH 457 (2), ICH 428 (2), ICH 429 (2), ICH 431 (2), ICH 432 (2), ICH 465 (2), ICH 433 (2), ICH 436 (2), ICH 438 (2), ICH 442 (2), ICH 403 (2) = 6 Credits
Total = 26 Credits

Graduation Requirements:
UMTE = 128 Credits
DE = 98 Credits

DEPARTMENT OF MATHEMATICS

Course Description

B. Sc. Mathematics

MAT 111 Elementary Set Theory and Numbers 3 Credits
45h (T); C

MAT 112 Elementary Differential and Integral Calculus 3 Credits
Functions of a real variable. Graphs, limits and idea of continuity. The derivative, as limit of rate of change. Techniques of differentiation, maxima and minima. Extrema curve sketching. Integration: definite integrals, reduction formulae, application to areas and volumes (including approximate integration), and trapezium and Simpson’s rules.
45h (T); C
MAT 113  **Elementary Vectors, Geometry and Mechanics**  3 Credits
45h (T); C

MAT 114  **Elementary Algebra and Trigonometry**  3 Credits
45h (T); C

MAT 115  **Mathematics for Agriculture and Biosciences I**  2 Credits
30h (T); R (Not for Mathematics Major)

MAT 116  **Mathematics for Agriculture and Biosciences II**  2 Credits
30h (T); R (Not for Mathematics Major)

MAT 201  **Mathematical Methods I**  3 Credits
45h(T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MAT 203</td>
<td>Sets, Logic and Algebra</td>
<td>3</td>
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<tr>
<td></td>
<td>45h (T); C</td>
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<tr>
<td>MAT 206</td>
<td>Linear Algebra II</td>
<td>2</td>
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<td>30 h (T), C, PR: MAT 203, MAT 213.</td>
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<tr>
<td>MAT 208</td>
<td>Real Analysis I</td>
<td>2</td>
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<td>Bounds of real numbers, convergence of sequences of numbers, monotone sequences and the theorem of nested intervals. Cauchy sequence, tests for convergence of series. Absolute and conditional convergence of series and re-arrangements. Completeness of reals and incompleteness of rationals. Continuity and differentiability of functions of $\mathbb{R}$ Rolle’s and Mean value theorems for differentiable functions. Taylor series.</td>
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<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>MAT 210</td>
<td>Introduction to Complex Analysis</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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</tr>
<tr>
<td>MAT 211</td>
<td>Elementary Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>MAT 212</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>
45h (T); C

**MAT 213 Linear Algebra I**
2 Credits
Vector space over the real field, sub-spaces, linear independence, basis and dimension, Linear transformations and their representation by matrices. Rings null space and rank: singular and non-singular transformations and matrices. Algebra of matrices.
30h (T); C

**MAT 214 Mathematical Package I**
1 Credit
Algebraic computations using mathematical softwares such as MATLAB, MATHCAD and MATHEMATICA.
45h (P); C

**MAT 306 Abstract Algebra I**
3 Credits
45h (T), C; PR: MAT 203

**MAT 307 Real Analysis II**
3 Credits
Riemann integral of functions of $\mathbb{R}^n$. Continuous mono-positive functions. Functions of bounded variation. Reimann-Stelities integral. Pointwise and uniform convergence of sequences and series of functions $\mathbb{R}^n$. Effects on limits (sum) when the functions are continuous, differentiable or Reimannintegrable. Power series.
45h (T), C, PR: MAT 208

**MAT 308 Introduction to Mathematical Modelling**
3 Credits
45h (T), C, PR: MAT 201; MAT 311

**MAT 309 Discrete Mathematics**
3 Credits
MAT 311 Mathematical Method II 3 Credits

MAT 313 Geometry 3 Credits
Coordinates in $\mathbb{R}^3$. Polar coordinates, distance between points, surfaces and curves in space. The plane and straight line. Basic projective geometry, affine and Euclidean geometries.

MAT 316 Introduction to Operations Research 3 Credits

MAT 317 Differential Geometry 3 Credits

MAT 321 Optimization Theory 3 Credits

MAT 322 Metric Space Topology 3 Credits
Set metrics and examples. Open spheres (or balls), open sets and neighbourhoods. Closed sets, interior, exterior, frontier, limit points and closure of a set. Dense subsets and separable space. Convergence in metric space.
MAT 323 Analytical Dynamics I 3 Credits

MAT 324 Vector and Tensor Analysis 3 Credits

MAT 325 Elementary Differential Equations II 3 Credits

MAT 326 Complex Analysis II 3 Credits

MAT 327 Abstract Algebra II 3 Credits
Group: definition, examples including permutation groups, subgroups, cosets, Lagrange theorem and applications. Cyclic groups: Rings, definition, examples including $\mathbb{Z}$, $\mathbb{Z}_n$ rings of polynomials and matrices. Integral domains and fields. Polynomial rings, and factorization. Euclidean algorithm for polynomials, H.C.F and L.C.M. of polynomials.

MAT 328 Dynamics of a Rigid Body 3 Credits

MAT 329  Complex Analysis I  3 Credits

MAT 332  NUTMErical Analysis  3 Credits

MAT 334  Total Differential Equations  2 Credits

MAT 335  Mathematical Package II  1 Credit
Application of mathematical packages, such as MATLAB, MATHCAD, MATHEMATICA, etc to approximation methods in series, differential and integral equations.

MAT 401  Ordinary Differential Equations  3 Credits

MAT 402  Partial Differential Equations  3 Credits

45h (T); C, PR: MAT 311, 325.

MAT 403  Functional Analysis  3 Credits
45h (T); C, PR: MAT 322

MAT 405  General Topology  3 Credits
45h (T); C, PR: MAT 322.

MAT 406  Lebesgue Measure and Integrals  3 Credits
Lebesgue measure: measurable and non-measurable sets. Measurable functions. Lebesgue integrals: integration of non-negative functions, the general integral and convergence theorems.
45h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MAT 407</td>
<td>Mathematical Methods III</td>
<td>3</td>
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<tr>
<td></td>
<td>45h (T); C, PR: MAT 325</td>
<td></td>
</tr>
<tr>
<td>MAT 408</td>
<td>Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); E</td>
<td></td>
</tr>
<tr>
<td>MAT 409</td>
<td>General Relativity</td>
<td>3</td>
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<tr>
<td></td>
<td>Particles in a gravitational field; curvilinear coordinates and intervals. Covariant differentiation. Christofell symbol and metric tensor. The constant gravitation field rotation. The curvilinear tensor. The action of function for the gravitational field. The energy momentum and tensor. Newton’s law. Motion in a centrally symmetric gravitational field. The energy momentum. Pseudo-tensor gravitational waves. Gravitational fields at large distance from bodies. Isotropic space. Space-time metric in the closed and in the open isotropic models.</td>
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<tr>
<td></td>
<td>45h (T); E</td>
<td></td>
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<tr>
<td>MAT 410</td>
<td>Electromagnetism</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); E, PR: MAT 324</td>
<td></td>
</tr>
<tr>
<td>MAT 411</td>
<td>Analytical Dynamics II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Lagrange’s equations for non-holonomic systems, Lagrangian multipliers, variational principles, integral definition of gradient, divergence and curl line, surface and volume integral; Green’s, Guass’ and Stoke’s theorems. Curvilinear coordinates, Simple notion of tensors. The Use of tensor notation.</td>
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<tr>
<td></td>
<td>45h (T), E, PR: MAT 323</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>MAT 412</td>
<td>Field Theory</td>
<td>3</td>
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<td>Gradient, divergence and curl. Further treatment and application of the differential definitions. The integral definition of gradient divergence and curl Line, surface and volume integral; Green’s, Gauss and Stoke’s theorems. Curvilinear coordinates. Simple notion of tensors. The use of tensor notation.</td>
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<td>45h (T); E, PR: MAT 324</td>
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<tr>
<td>MAT 413</td>
<td>Fluid Dynamics I</td>
<td>3</td>
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<td>45h, (T); E, PR: MAT 323</td>
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<tr>
<td>MAT 415</td>
<td>System Theory</td>
<td>3</td>
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<td>45h (T); E</td>
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<tr>
<td>MAT 416</td>
<td>Measure Theory</td>
<td>3</td>
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<tr>
<td></td>
<td>Abstract integration on $L^p$-spaces.</td>
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<tr>
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<td>45h (T); E</td>
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<tr>
<td>MAT 417</td>
<td>Advanced Algebra</td>
<td>3</td>
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<tr>
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<td>45h (T); E, PR: MAT 327</td>
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<tr>
<td>MAT 418</td>
<td>Algebraic Number Theory</td>
<td>3</td>
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<tr>
<td></td>
<td>Algebraic number theory: algebraic numbers, quadratic and cyclotomic fields. Factorization into irreducible, ideals and Minkowski’s theorems, class-group and class number. Fermat’s last theorem, Dirichlet’s unit theorem.</td>
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<td>45h (T); E, PR: MAT 306, 327</td>
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</tbody>
</table>
MAT 419  Galois Theory  3 Credits
Galois theory: algebraic elements, splitting field, fundamental theorem, finite field, cubic, quadratic and quintic equations.
45h (T); E, PR : MAT 306, MAT 327

MAT 420  Analytic Number Theory  3 Credits
45h (T); E.

MAT 422  Continuum Mechanics  3 Credits
45h (T); E, PR : MAT 311, MAT 324

MAT 425  Applied Functional Analysis I  3 Credits
Metric spaces and fixed points; metric spaces, optimal economic growth problems and fixed points by successive approximations. Applications of contraction mapping principle. Integration theory: fundamental result, integration in S and closure of S_1 and S_2. Complete space of integrable functions.
45h (T); E, PR; MAT 322

MAT 426  Applied Functional Analysis II  3 Credits
45h (T); E, CC: MAT 425

MAT 427  Computational Methods in Optimization I  3 Credits
45h (T); E, PR: MAT 321

MAT 428  Computational Methods in Optimization II  3 Credits
45h (T); E, CC: MAT 427

MAT 429  Integral Equations  3 Credits

**45h (T); E, CC MAT 401**

**MAT 433**  
**NUMERical Analysis II**  
3 Credits  

**45h (T); E, PR: MAT 332**

**MAT 434**  
**Complex Analysis III**  
3 Credits  

**45h (T); E, PR: MAT 304, MAT 326**

**MAT 436**  
**Fluid Mechanics II**  
3 Credits  
Water wave motion. Shock wave theory. Dynamics of real fluids, Boundary layer theory at high Reynolds number.

**45h (T); E, CC: MAT 413**

**MAT 438**  
**Elasticity II**  
3 Credits  

**45h (T); E, PR: MAT 401**

**MAT 499**  
**Project**  
6 Credits  
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

**270h (P); C**
SUMMARY

100 Level

Compulsory Courses: MAT 111(3), 112(3), 113(3), 114(3) = 12 Credits

Required Courses: CSC 111(2), 112(2), GNS 111(2), 112(2), PHY 115 (2), 152 (3), 191(1), 192(1), STA 121(2), 124 (2), 131 (2), 134(2) = 23 Credits

Total = 35 Credits

200 Level

Compulsory Courses: MAT 201 (3), 203 (3), 206 (2), 208 (2), 211(3), 212 (3), 213 (2), 214 (1) = 19 Credits

Required Courses: CSC 211 (3), 218 (3), GNS 211 (2), 212 (2), STA 221 (3), 222 (3) = 16 Credits

Elective Courses: A minimum of 2 Credits from the following: MAT 210 (2), CSC 202 (3), 204 (2), 210 (2), STA 223 (3), 224 (3) = 2 Credits

Total = 37 Credits

Direct Entry Students: GNS 111 (2), 112 (2) = 4 Credits

DE = 41 Credits

300 Level


Required Course: GNS 311 (2), GSE 301(3) = 5 Credits

Elective Courses: At least 2 Credits from the following: CSC 304 (2), 305 (2), MAT 313 (3), 316 (3), 317 (3), 321 (3), 323 (3), 328 (3), 334 (2), STA 311 (3) = 2 Credits
Total = 41 Credits

400 Level

Compulsory Courses: MAT 401 (3), 402 (3), 403 (3), 405 (3), 406 (3), 407 (3), 499 (6)
= 24 Credits

Elective Courses: A minimum of 6 Credits from the following: MAT 408 (3), 409 (3),
420 (3), 425 (3), 426 (3), 427 (3), 428 (3), 429 (3),
433 (3), 434 (3), 436 (3), 438 (3)
= 6 Credits

Total = 30 Credits

Graduation Requirements
UTME = 133 Credits
DE = 110 Credits

DEPARTMENT OF PHYSICS

Course Description

B.Sc. Physics

PHY 115 Mechanics and Properties of Matter I 2 Credits
Units and dimensions. Scalars and vectors. Particle kinematics. Newton’s laws. Friction, work and energy. Centre of mass. Simple
harmonic motion and rigid body dynamics. Kepler’s laws. Pressure in fluids, intermolecular forces, Hooke’s law and Young’s
modulus, Fluid flow streamline turbulence, Stokes’ law and surface tension.
30h (T); C

PHY 125 Heat, Sound and Optics 3 Credits
Temperature, thermometers, heat transfer and PVT surfaces, Kinetic theory, first and second laws of Thermodynamics. Transverse
and longitudinal waves and standing waves. Intensity, beats and Doppler effect. Electromagnetic spectrum. Huygen’s principle.
Images formed by a single surface, thin lenses and aberrations. The eye, optical instrUMENT, interference, single slit diffraction,
diffraction grating and polarization. Malus’ law.
45h (T); C

PHY 142 Atomic and Nuclear Physics 2 Credits
Theory of atomic structure, Thompson, Rutherford and Bohr’s theories and the hydrogen atom. Properties of the electron, em,
C.R.O. and Millikan’s experiment. Properties of the nucleus. Natural radioactivity, wave – particle duality f light, x-rays and
photoelectricity. Thermionic emission and Diode-value.
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHY 152</td>
<td>Electricity and Magnetism I</td>
<td>3</td>
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<tr>
<td></td>
<td>Coulomb’s law, Gauss’s theorem, Capacitors, Ohm’s law, Kirchoff’s laws, electrical energy, DC bridges, Potentiometer, Magnetic effect of current, Electromagnetic induction, Moving coil and Ballistic galvanometers, Multimeters, DC and AC meters and generators, Magnetic materials: paramagnetism, diamagnetism, ferromagnetism. Hysteresis, Power in AC circuits, Semiconductors, Conductivity and mobility, Rectification.</td>
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</tr>
<tr>
<td>PHY 191</td>
<td>Practical Physics I</td>
<td>1</td>
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<tr>
<td></td>
<td>At least six experiments from the following: use of measuring instruments, viscosity, surface tension, oscillation about an equilibrium position, Hooke’s law, moment of inertia, focal lengths of lenses, refractive index, optical instruments, the sonometer, heat capacity, volume expansion and latent heat.</td>
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<tr>
<td>PHY 192</td>
<td>Practical Physics II</td>
<td>1</td>
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<tr>
<td></td>
<td>At least six experiments from the followings: potential difference and internal resistance of cells, use of potentiometer circuit; the metre bridge, simple current measuring instruments. Planck’s constants and radioactivity.</td>
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<tr>
<td>PHY 208</td>
<td>Introduction to Astronomy and Space Science</td>
<td>2</td>
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<tr>
<td>PHY 214</td>
<td>Mechanics and Properties of Matter II</td>
<td>2</td>
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<tr>
<td></td>
<td>Reviews of Newtonian mechanics, Gravitational potential energy, Conservation of energy and momentum, Rotation of rigid bodies, Interatomic and intermolecular bonding, Crystal structure, Elasticity, Viscosity, Thermal properties of solids, Diffusion in solids.</td>
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<tr>
<td>PHY 225</td>
<td>Vibration and Waves</td>
<td>2</td>
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</tbody>
</table>
PHY 243  Heat, Atomic and Nuclear Physics  2 Credits
Laws of thermodynamics, absolute zero, heat engines, kinetic theory, heat transfer. Planck’s law, photoelectric and Compton effects, Frank-Hertz experiment, Discharge tubes, Atomic spectra, Bohr’s theory. Radioactivity, fission, fusion, radiation detection, elementary particles, cosmic rays, biological effects of radiation.
30 h (T); C

PHY 252  Electricity and Magnetism II  2 Credits
Linear circuits and DC bridges, AC networks, Magnetic induction, Transients, Biot-Savarts’ law, Lorentz force, Faraday’s law, AC motors and generators, Junction diode, The triode, Transistor amplifier, diode rectification, power supply.
30h (T); C

PHY 291  Practical Physics III  2 Credits
Experiments to illustrate the principles of physics. learnt in the theory courses. Topics include Elastic constants, Moment of inertia, Acceleration due to gravity using compound pendulum, Viscosity. Calorimetry, Conductivity, Thermoelectricity, temperature, Coefficient of resistance, Light spectra and Radiation detection.
90h (P); C

PHY 292  Practical Physics V  2 Credits
Experiments to illustrate the principles of physics learnt in the theory courses. Topics include oscillatory systems. Telescope, microscope. Newton’s rings, Young’s experiment, grating and prism spectrometer. Potentiometer, Wheatstone and Carey Forster bridges, maximum power theorem, oscilloscopes.
90h (P); C

PHY 293  Practical Physics IV  1 Credit
A selection on principles of Physics in PHY 291 relevant to student’s theory course
45h (P); (Not for Physics major)

PHY 294  Practical Physics VI  1 Credit
A selection on principles of Physics in PHY 292 relevant to student’s theory course
45h (P); (Not for Physics major)

PHY 303  Energy Physics  2 Credits
Energy and power principles: demands and outlooks, transformation of energy, energy costs, thermal pollution. Energy from fossil, Hydroelectric generation: principles and problems, cost, storage capacity, reserves, efficiency and environmental effects.
Energy from nuclear reactions, energy in the future breeder reactors, fusion power, solar power, geothermal power, tidal power. Promise and problems. Excursion to an energy station (with a submission of a write-up).

30h (T); C

 PHY 314 Classical Mechanics and Special Relativity 3 Credits
Conservative forces, Central forces, System of particles, principles of virtual work, generalized coordinates and Lagrange’s equations. Hamiltonian mechanics, Rotating frames, rotation of rigid body, Euler’s angles, Motion of symmetric body, Normal modes, Coupled oscillations. Galilean relativity, Lorentz transformations, space-time diagram and point events, World lines and proper time, proper length, Mass-energy relation, Relativistic kinematics and dynamics, Conservation laws and invariants, Electric and magnetic fields. Point interactions, Collisions and particle creation. Four vectors and law of mechanics.
45h (T); C; PR: PHY 214

 PHY 324 Waves and Optics 3 Credits
45h (T); C; PR: PHY 225

 PHY 331 Thermodynamics and Statistical Physics 3 Credits
Thermodynamic systems, thermodynamic potentials, free expansion of a gas and throttling process, phase transition, low temperature physics, statistical ensemble: Probability, microstates and macrostates statistical mechanics, Boltzmann distribution, Curie’s law, partition function and systems.
45h (T); C; PR: PHY 243

 PHY 342 Quantum Physics 3 Credits
45 (T); C; PR: PHY 243

 PHY 353 Electromagnetic Theory I 3 Credits
45h (T); C, PR: PHY 252
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHY 354</td>
<td>Electromagnetism</td>
<td>2</td>
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<tr>
<td></td>
<td>Advanced AC theory, impedance and AC bridges.</td>
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<td>Power and phase.</td>
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<td>Instruments for measurements of power, phase,</td>
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<td>voltage, three phase measurements and magnetic</td>
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<td>measurements.</td>
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<td>30h (T); C, PR: PHY 252</td>
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<tr>
<td>PHY 357</td>
<td>Electronics I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Introduction to Electronics, Components and</td>
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<td>Symbols, Semiconductor Physics – Energy Band</td>
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<td>theory – Insulator, Metals, Semiconductors,</td>
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<td>Intrinsic Semiconductor, Extrinsic Semiconductor,</td>
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<td></td>
<td>PN – Junction diodes – Fabrication, Characteristics,</td>
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<td>Applications.</td>
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<td>Zener Diodes, Tunnel Diode, Varactor Diode, PIN</td>
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<td>Diodes, Point Contact Diode, Schottky Diode.</td>
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<td>Varistors and Thermistors. Rectifiers, Voltage</td>
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<td>Multiplier, Bipolar Junction Transistor –</td>
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<td>Operation, Biasing, Transistor circuit</td>
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<td>configuration and Transistor Characteristics</td>
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<td>Single stage transistor amplifier circuits,</td>
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<td></td>
<td>Load lines and Biasing, Hybrid Parameters of</td>
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<tr>
<td></td>
<td>Bipolar Junction Transistor Circuits.</td>
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<td>15h (T), 45h (P); C, PR: PHY 252</td>
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<tr>
<td>PHY 358</td>
<td>Electronics II</td>
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<tr>
<td></td>
<td>Introduction to UJTs, JFET-construction,</td>
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<td>characteristics, JFET Amplifiers and Parameters,</td>
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<td>JFET DC load line and FET biasing, Hybrid</td>
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<td>parameters of JFET circuits and Applications.</td>
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<td>MOSFETS- construction, characteristics, MOSFET</td>
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<td>in Switches, Amplifiers, MOSFET Biasing.</td>
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<td>Amplifier Frequency Response (BJT and UJT),</td>
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<td>Differential Amplifiers, Feedback Amplifiers,</td>
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<td>Oscillators and waveform generations, Opto-</td>
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<td>electronic devices – Emitters, sensors and</td>
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<td>opto-couplers. Solar cells, Transistor</td>
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<td>Multivibrators and 555 Timer circuits,</td>
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<td>Operational Amplifiers – Differential Amplifiers,</td>
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<td>Inverting Amplifiers, Noninverting amplifiers,</td>
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<td>General applications of Op – Amps: Current</td>
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<td>Amplifiers, Followers, Integrator, Differenti-</td>
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<td>ator, Summing, Passive and Active Filters.</td>
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<td>30h (T), 45h (P); C, PR: PHY 252; CC: PHY 357</td>
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<tr>
<td>PHY 365</td>
<td>Mathematical Methods in Physics</td>
<td>3</td>
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<td>Functions of complex variables. Fourier methods.</td>
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<td>Laplace transform. Generalised functions: delta,</td>
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<tr>
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<td>step and Green’s functions. Ordinary differential</td>
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<td>equations. Forced and damped oscillations.</td>
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<td>Sturm-Liouville problem. Wave equations in two</td>
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<td>and three dimensions and Poisson’s equation.</td>
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<td>Legendre functions and Bessel functions. Spherical</td>
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<td>harmonics. Harmonic Analysis.</td>
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<td>45h (T); C</td>
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<tr>
<td>PHY 391</td>
<td>Practical Physics and Treatment of Data I</td>
<td>3</td>
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<tr>
<td></td>
<td>Review of treatment of data. Forbe’s bar and</td>
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<td>heat waves in solids. AC bridges and</td>
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<td>potentiometers. Characteristics of galvanometers,</td>
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<td>hysteresis loss in ferromagnetic materials.</td>
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<td>Damped and free oscillations. Coupled oscillations.</td>
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<td>15h (T), 90h (P); C</td>
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<tr>
<td>PHY 392</td>
<td>Practical Physics and Workshop Practice III</td>
<td>2</td>
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</tbody>
</table>
## Section A
Soldering welding, measurements of lengths, angles, shapes, hand and machine tools, carpentry, workshop health and safety. Section B: Advanced spectrometers, Spectro-photograph, Michelson and Fabry-Perot interferometers, Young’s modulus of glass by Cornu’s method, Fresnel’s reflection of EM waves. 90h (P); C

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHY 393</td>
<td>Practical Physics and Treatment of Data II</td>
<td>2</td>
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<tr>
<td></td>
<td>Review of treatment of data. Selection of experiments from PHY 391</td>
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<td></td>
<td>15h (T), 45h (P); E (Not for Physics major)</td>
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<tr>
<td>PHY 394</td>
<td>Practical Physics IV</td>
<td>1</td>
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<tr>
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<td>Selection of experiments from PHY 392 section B relevant to students’ theory courses</td>
<td>45h (P); E (Not for Physics major)</td>
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<tr>
<td>PHY 405</td>
<td>Seminar</td>
<td>1</td>
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<td>Literature search and use of library. Scientific writing; Literature survey and presentation of seminars on selected topics.</td>
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<td>45h (P); C</td>
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<tr>
<td>PHY 408</td>
<td>Principles of Physics</td>
<td>2</td>
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<tr>
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<td>Nature of science, role of hypothesis, theory and law, symmetry principle, revolutions in Physics, survey of historical development of Physics from ancient Egyptian astronomy to present day search for sub-nuclear particle, the contributions of Copernicus, Galileo, Newton, Einstein, and recent Nobel Laureates such as Glashow, Weinberg and Abdus-Salam.</td>
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<td>30h (T); E</td>
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<tr>
<td>PHY 409</td>
<td>Measurement Method</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Measuring instrUMENTs. Input-output configuration and various inputs characteristics. Operational and sinusoidal transfer functions; zero, first and second order instrUMENTs. Measurement of motion, pressure and force, resistance strain gauges, capacitive and piezoelectric transducers. Thermoelectric sensors, frequency measurement by variation method, resonant circuit and bridge methods. Absolute determination of frequency.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>PHY 416</td>
<td>Computational Physics</td>
<td>2</td>
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<tr>
<td></td>
<td>15h (T), 45h (P); E</td>
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<tr>
<td>PHY 417</td>
<td>General Relativity</td>
<td>2</td>
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</tbody>
</table>

PHY 423 Acoustics 2 Credits
Sound levels and spectrum measurement of levels. Loudspeakers, ultrasonic generators and microphones. Applications of acoustic device to non-destructive testing, medicine, radar and solar wave propagation in isotropic materials. Piezoelectric transducers. Measurement of acoustics impedance. Acoustics rooms measurement of reverberation time.

PHY 432 Statistical Physics 3 Credits

PHY 433 Vacuum Techniques 2 Credits
Molecularvelocities, Maxwell-Boltzmann distribution and laws, flow conductance and impedance. Viscous flow, Molecular flow, Rate of exhaustthrough tubes and orifices. Vacuum pumps, mechanicalpumps, molecularpumps, coin getter pumps, cryogenicpumps, measurements of gas pressure, high and ultrahigh vacuum gauges.

PHY 442 Semi-conductor Physics 2 Credits

PHY 443 Solid State Physics I 2 Credits
Crystalline state: two and three dimensional lattice types, crystal structures and lattice defects. Binding forces in solids, bulk modulus, ionic crystals and lattice vibrations. Thermal properties of solids. Einstein and Debye theories of heat capacity of solids. Fermi-Dirac distribution function, electrical and thermal conductivity of metals.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PHY 444</td>
<td>Solid State Physics II</td>
<td>2</td>
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<tr>
<td></td>
<td>Wave equation of electron in a periodic potential.</td>
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<tr>
<td></td>
<td>Band theory of metals, semiconductors and insulators. Introduction to electrical, magnetic and optical properties of materials. Superconductivity. Introduction to dielectric properties of materials.</td>
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<tr>
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<td>30h (T); E, CC: PHY 443</td>
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<tr>
<td>PHY 446</td>
<td>Nuclear and Particle Physics I</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T), E; PR: PHY 342</td>
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<tr>
<td>PHY 447</td>
<td>Nuclear and Particle Physics II</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E, CC: PHY 446</td>
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<tr>
<td>PHY 448</td>
<td>Principles of Spectroscopic Techniques</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); E, PR: PHY 342, PHY446</td>
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<tr>
<td>PHY 449</td>
<td>Microwave Theory and Applications</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Waves and field distributions in rectangular and circular waveguides. Microwave measurements, Standing wave ratio, Waveguide components in microwave test bench and in surface and satellites communication systems.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>PHY 454</td>
<td>Communications</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); E, PR: PHY 357, PHY 365</td>
<td></td>
</tr>
<tr>
<td>PHY 456</td>
<td>Electromagnetic Theory II</td>
<td>3</td>
</tr>
</tbody>
</table>

**PHY 457**  
**Digital Electronics**  
2 Credits


30h (T); E, PR: PHY 357

**PHY 458**  
** Plasma Physics**  
2 Credits

Definition of plasma temperature and Debye length. Motion in E and D fields, Time varying fields. Adiabatic invariants, Fluid equations, Drifts and Waves in plasma: electron plasma waves, sound waves, ion waves-lower hybrid frequency, electromagnetic waves, fusion and astrophysical plasma.

30h (T); E, PR: PHY 353

**PHY 461**  
**Quantum Mechanics I**  
2 Credits


30h (T); C, PR: PHY 342

**PHY 462**  
**Quantum Mechanics II**  
3 Credits


45h (T); E, CC: PHY 461

**PHY 464**  
**Mathematical Methods in Physics II**  
3 Credits

45h (T); E, PR: MAT 325

PHY 465 Quantum Electronics 2 Credits
30h (T); E

PHY 471 Physics of Solid Earth 2 Credits
30h (T); E

PHY 472 Physics of the Lower Atmosphere 2 Credits
30h (T); E

PHY 473 Ionospheric Physics 2 Credits
Composition and height distribution of the neutral atmosphere. Formation of the ionosphere: regular characteristics and irregularities. Radio wave propagation in homogeneous and ionized gas, measurement of ionospheric parameters, geomagnetism and the ionosphere.
30h (T); E

PHY 474 Geomagnetism 2 Credits
30h (T); E

PHY 475 Introduction to Solar Energy Physics 2 Credits

30h (T); E

**PHY 476 Crystallography and Electron Microscopy** 2 Credits

30h (T); E

**PHY 477 Electrical and Magnetic Properties of Materials** 2 Credits
Free electron theory, band model, types of conductors, semiconductors, insulators-dielectric and polymers, conductivity of semiconductors. Dielectric polarization, ferroelectricity and piezo-electricity. Polymerization and elastomeric. Superconductivity, electron spin, diamagnetism, paramagnetism, ferromagnetism; magnetic domains; soft and hard magnetic materials, ferrites.

30h (T); E

**PHY 478 Surface Physics** 2 Credits

30h (T); E

**PHY 479 Biophysics** 2 Credits

30h (T); E

**PHY491 Advanced Practical Physics I** 2 Credits

30h (P); C

**PHY 493 Advanced Practical Physics II** 1 Credit
Selection of experiments from PHY 491 relevant to students’ theory courses (Cannot be taken by Physics students).  
45h (P); E

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY499</td>
<td>Project</td>
<td>6</td>
</tr>
</tbody>
</table>

Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.  
15h (T), 225h (P); C
SUMMARY

100 Level

Compulsory Courses: PHY 115 (2), 125 (3), 142 (2), 152 (3), 191 (1), 192 (1) = 12 Credits

Required Courses: MAT 111 (3), 112 (3), 113 (3), 114 (3), CHM 111 (3), 112 (2), 115 (2), 116 (1), GNS 111 (2), 112 (2) = 26 Credits

Elective Courses: At least 2 Credits from STA 122 (2), 124 (2) = 2 Credits
Total = 40 Credits

200 Level

Compulsory Courses: PHY 225 (2), 243 (2), 214 (2), 252 (2), 291 (2), 292 (2), 208 (2) = 14 Credits

Required courses: MAT 201 (3), 211 (3), CSC 211 (3), 218 (3), STA 223(3), GNS 211(2), = 19 Credits

Elective Courses: At least 6 Credits from MAT 212 (3), STA 224 (3), CHM 212 (3), 236 (3) = 6 Credits
Total = 39 Credits

Direct Entry Students: GNS 111(2), 112 (2) = 43 Credits

300 Level

Compulsory Courses: PHY 303 (2), 314 (3), 324 (3), 331 (3), 342 (3), 353 (3), 354 (2), 357 (2), 365 (3), 391 (3), 392 (2) = 32 Credits

Required Courses: MAT 311 (3), 324 (3), 332 (3), GNS 311 (2), GSE 301 (3) = 14 Credits

Elective Courses: MAT 310 (2), 323 (3), 325 (3), 326 (3), 328 (3), 329 (3), CSC 202 (3) Total = 46 Credits

400 Level
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHY 405</td>
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</tr>
<tr>
<td>PHY 432</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHY 443</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 456</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHY 461</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 491</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 499</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Credits: 19**

**Elective Courses:**

At least 8 Credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 409</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 416</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 444</td>
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<td>2</td>
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<tr>
<td>PHY 446</td>
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<td>2</td>
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<tr>
<td>PHY 454</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 462</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 457</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Credits: 8**

At least 4 Credits from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 471</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 472</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 473</td>
<td></td>
<td>2</td>
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<tr>
<td>PHY 474</td>
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<td>PHY 475</td>
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<tr>
<td>PHY 476</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 477</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>PHY 478</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Credits: 4**

**Total Credits: 31**

**Graduation Requirements**

UTME = 144 Credits
DE = 108 Credits
**B.Sc. Statistics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 121</td>
<td>Introduction to Probability</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Probability as a measure of uncertainty. Sample points and events. Combination of events. Definitions and basic properties of probability. Joint and conditional probabilities. Combinatorial analysis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>STA 124</td>
<td>Introduction to Probability Distribution</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Random variable, Bernoulli trials. Binomial, Geometric, Poisson, Uniform and Normal distributions. Concepts of linear regression, correlation and association of attributes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>STA 125</td>
<td>Basic Concepts of Sample Survey</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
</tr>
<tr>
<td>STA 131</td>
<td>Introduction to Statistical Inference I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Statistical data: source, collection and preliminary analysis by table, graphs and simple statistics to include measures of location, dispersion, skewness, Kurtosis and correlation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>STA 132</td>
<td>Laboratory for Inference</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Presentation and analysis of data. Curve fitting and goodness of-fit tests. Construction of questionnaires and simple index numbers. Use of random numbers and statistical tables</td>
<td></td>
</tr>
<tr>
<td></td>
<td>90h (P); C</td>
<td></td>
</tr>
<tr>
<td>STA 134</td>
<td>Introduction to Statistical Inference</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Time series, demographic measures and index numbers. Inference estimation and tests of hypothesis. Regression and correlation of data</td>
<td></td>
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<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
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<tr>
<td>STA 201</td>
<td>Statistics for Agriculture and Biological Sciences I</td>
<td>2</td>
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</tbody>
</table>

30h (T) (Not for Statistics Students)

**STA 203**  
**Statistics for Physical Sciences and Engineering I**  
2 Credits  
Measures of location and dispersion in simple and grouped experimental data. Elements of probability and probability distributions; Normal, Binomial, Poisson, Geometric. Negative Binomial.  
30h (T); R

**STA 204**  
**Statistics for Agricultural and Biological Sciences II**  
2 Credits  
30h (T); PR: STA 201

**STA 206**  
**Statistics for Physical Sciences and Engineering II**  
2 Credits  
30h (T); PR: STA 203

**STA 207**  
**Biostatistics**  
3 Credits  
45h (T) (Not For Statistics Students)

**STA 208**  
**Health and Vital Statistics**  
3 Credits  
45h (T); C

**STA 222**  
**Probability Distributions II**  
3 Credits  
Moment generating functions and its properties. Limit theorems in probability Central limit theorem for independently and identically distributed random variables. Distribution of order statistics. Hypergeometric, multinomial, negative binomial,

45h (T); C, PR: STA 221

STA 223  Statistical Methods I  3 Credits
Sampling distributions, Central t, Chi-square and F distributions. Mean and variance of moments. Tests of significance concerning means, proportions and variance using t, Chi-square and F statistics. Theory of attributes. Contingency tables, Chi-square test and goodness-of-fit test.

30h (T), 45h (P); C

STA 224  Statistical Methods II  3 Credits
Simple linear regression and correlation. Elementary polynomial and multiple regression curves. Multiple correlation coefficients. Tests concerning correlation and regression coefficients. Fitting of straight line, polynomial and regression plane.

30h (T), 45h (P); C

STA 311  Probability Distribution II  3 Credits

45h (T); C, PR: STA 222

STA 312  Analysis Of Variance I  3 Credits
Analysis of simple, double and multiple classifications of balanced data in crossed and nested designs. Analysis of variance involving unbalanced data, incomplete tables, missing values, etc. Treatment of non-normality and heterogeneity of variances in data.

45h (T); C, PR: STA 222

STA 323  Biometry  3 Credits
Purpose, history and structure of Biological assays. Types of biological assays. Terminologies, Name of direct assays Applications to strephanth use. Precision of estimates.

45h (T); E

STA 333  Regression Analysis I  3 Credits

45h (T); C, PR: STA 224

**STA 335**  
**Design and Analysis of Experiments I**  
3 Credits


45h (T); C

**STA 341**  
**Statistical Inference I**  
3 Credits


45h (T); C, (PR): STA 222

**STA 342**  
**Statistical Inference II**  
3 Credits


30h (T), 45h (P); C, PR: STA 341

**STA 348**  
**Statistics Quality Control I**  
3 Credits

Quality assurance in modern business. Control charts for attributes: P-chart, C-chart, S-chart, acceptance sampling by attributes: single, double and multiple sampling plans. Sequential sampling plan. Sampling by variables.

45h (T); E

**STA 349**  
**Econometrics I**  
3 Credits

Basic concepts of econometrics in the linear model: Tests of specification and mis-specification, predictive and non-predictive and various hypotheses. Multi-collinearity. GLS, Linear restriction, dummy variables and seasonal variations. Dynamic models.

45h (T); E

**STA 351**  
**General Statistical Methods**  
3 Credits

Sampling distribution. Binomial, Poisson, Uniform and Normal distributions. Point and interval estimations. Simple and multiple linear regression

45h (T); E
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 352</td>
<td>Economic and Social Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); E</td>
<td></td>
</tr>
<tr>
<td>STA 353</td>
<td>Basic Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); E (Not opened to statistics minor nor major students and any body who had STA 202).</td>
<td></td>
</tr>
<tr>
<td>STA 354</td>
<td>Statistical Computing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Programming in BASIC AND FORTRAN</td>
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<tr>
<td></td>
<td>Computer languages, Computing of mean, variance, correlation and other moments. Storing and ranking of data. Basic statistical computing in regression analysis and the analysis of designed experiments. Use of some statistical packages like SPSS, SAS covering input-output of data.</td>
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<tr>
<td></td>
<td>30h (T), 45h (P); C</td>
<td></td>
</tr>
<tr>
<td>STA 358</td>
<td>Student Industrial Work Experience</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Students will be attached to some Statistical and Industrial organizations for 10 m- 12 weeks during the long vacations. Students should present a report and a seminar.</td>
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<tr>
<td></td>
<td>135h (P); E</td>
<td></td>
</tr>
<tr>
<td>STA 362</td>
<td>Statistical Inference III</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>45h (T); E. PR: STA 341</td>
<td></td>
</tr>
<tr>
<td>STA 363</td>
<td>Sample Survey I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organization of sample surveys: Planning, execution and analysis of large-scale surveys with special emphasis on Nigeria. Various problems arising in sample surveys. Use of sample surveys over complete enUTMEration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); 45h (P); C</td>
<td></td>
</tr>
<tr>
<td>STA 364</td>
<td>Sample Survey II</td>
<td>3</td>
</tr>
</tbody>
</table>
Basic concepts: Sampling designs and sampling strategy. Sampling and non-sampling errors. Standard sampling procedures: Simple random sampling, stratified sampling, linear and circular systematic sampling, varying probability sampling with replacement, cluster sampling. Two stage sampling with equal number of ssu per fse. Ratio, regression, difference and product methods of estimation in SRSWOR.

30h (T); 45h (P); C

STA421 Regression Analysis II 2 Credits

30h (T); C, PR: STA 333

STA 423 Analysis of Variance II 2 Credits
Analysis of variance involving unbalanced data such as with missing observations. Multivariate analysis of variance. Analysis of multifactor, multi-response data. Non-normality, heterogeneity of variance, etc.

30h (T); C

STA 432 Design and Analysis of Experiments II 3 Credits
Factorial experiments. Confounding in \(2^n\) and \(3^n\) experiments. Fractional factorial and replication in \(2^n\) factorial experiments. Split plot. Incomplete block and Lattice designs, BIBD and PBIBD. Response surface designs. Rotatable designs

45h (T); C, PR: STA 335

STA 433 Statistical Method and Field Experimentation 3 Credits
Introduction to field experiments. Selection of designs for specific situations: collection and analysis of data. Analysis of variance and covariance. Design of experiments. Using and analyzing data from the following: pair plot, completely randomized, complete blocks, Latin squares and split-plot designs. Factorial experiments.

45h (T) (Not for Statistics minors or majors).

STA 435 Demography 3 Credits

30h (T), 45h (P); C

STA 442 Sampling Surveys III 3 Credits
STA 445  Statistical Inference IV  3 Credits

STA 446  Time Series Analysis  3 Credits

STA 447  Psychometrics  3 Credits
Introduction to Scaling procedures: Scaling individual test items. Percentile scaling, sigma-scaling, T-scaling of rating or ranking. Test theory item analysis; parallel test, methods of estimating reliability and validity, intelligence tests, etc. Element of factor analysis.

STA 448  Statistical Quality Control II  3 Credits

STA 449  Elementary Categorical Data Analysis  3 Credits

STA 453  Elements of Stochastic Processes  3 Credits

**STA 456 Operations Research**  
3 Credits  
Stochastic and non-Stochastic phenomena and models. Linear programming. Feasible and optimum solution. Geometric method for optimum solution. Elements of non-linear and stochastic programming Application to transportation, storage and shortest route and other

45h (T); E

**STA 457 Multivariate Analysis**  
3 Credits  

45h (T); E, PR: STA 222

**STA 458 Applied Multivariate Analysis**  
2 Credits  
The course is meant to emphasize on the application part of multivariate analysis avoiding the mathematical proofs of the results. The topics covered are to be same as in STA 457. Practical Application on mathematic analysis.

90h (P); E

**STA 494 Seminar**  
1 Credit  
A student would be required to give a seminar on a topic approved by the Department.  
45h (P); C

**STA 499 Project**  
5 Credits  
The project shall involve collection, analysis and interpretation of primary and, or, secondary data in an area approved by the Head of Department. A student would be required to submit a critical report on his/her work in triplicate to the Department for evaluation purpose.

225h (P); C
SUMMARY
100 Level

Compulsory Courses: STA 121 (2), 124 (2), 125 (3), 131 (2), 132 (2), 134 (2) = 13 Credits

Required Courses: CSC111 (2), 112 (2), GNS111 (2), 112 (2), MAT 111 (3), 112 (3) = 14 Credits

Elective Courses: Minimum of 3 Credits taken from Agriculture, Biology, Chemistry, Computer Science, Economics, Geology, Mathematics and Physics. = 3 Credits
Total = 30 Credits

200 Level

Compulsory Courses: STA 221(3), 222(3) 223(3), 224(3) = 12 Credits

Required Courses: GNS 211 (2), 212 (2), CSC 211 (2), MAT 201 (3), 211 (3), 213 (2) = 14 Credits

Elective Courses: At least 4 Credits taken from CSC 213 (3), 212 (2), 214 (2), 216 (2), MAT 211 (3), 203 (3), 206 (2), 208 (2), 212 (3) or any other course(s) from Chemistry, Computer Science, Economics, Geology, Mathematics and physics = 4 Credits
Total = 30 Credits

Direct Entry Students: GNS 111 (2), 112 (2) = 4 Credits
### 300 Level

**Compulsory Courses:** STA311 (3), 312 (3), 341 (3), 342 (3), 333 (3), 335 (3), 364 (3), 363 (3), 354 (3)  

\[= 27 \text{ Credits}\]

**Required Courses:** GSE 301 (3), GNS 311 (2)  

\[= 5 \text{ Credits}\]

**Elective Courses:** At least 6 credits taken from MAT 312 (3), 320 (3), STA 358 (3), STA 336 (3), 348 (3), 349 (3), 352 (3), MAT 311(3), 306 (3) or any other course(s) from Chemistry, Computer Science, Economics, Geology, Mathematics and physics.  

\[= 6 \text{ Credits}\]

**Total = 38 Credits**

### 400 Level

**Compulsory courses:** STA 421 (2), 423 (2), 435 (3), 432 (3), 443 (3), 453 (3), 494 (1), 496 (5)  

\[= 22 \text{ Credits}\]

**Elective Courses:** At least 9 credits taken from STA 447 (3), 456 (3), 457 (3), 458 (2), 442 (3), 445 (3), 448 (3), 449 (3) or any other course(s) from Chemistry, Computer Science, Economics, Geology, Mathematics and Physics.  

\[= 9 \text{ Credits}\]

**Total = 31 Credits**

---

**Graduation Requirements**

- **UTME = 120 Credits**
- **DE = 111 Credits**
DEAN’S OFFICE

A. Jimoh  
B.Sc. (ABU); M.A. (Queens); Ph.D. (OAU)  
Professor & Dean

FACULTY OF SOCIAL SCIENCES
Azumi A. Adi                 B.Sc. (ABU)                     Faculty Officer

DEPARTMENT OF ECONOMICS

A. Usman                       B.Sc. (ABU); M.Sc. (Ilorin); Ph.D. (ABU)        Senior Lecturer & Ag. Head

I. O. Taiwo                    B.Sc. (Ibadan); M.Sc., Ph.D. (London)            Professor

A. Jimoh                       B.Sc., (ABU), M.A. (Queens); Ph.D. (OAU)       Professor

H.M. Bandara                  B. Ec. (Sri Lanka); M.Sc. (Sri. Jayewardenepura); Ph.D. (Strathdyde, UK) Professor

G. T. Arosanyin               B.Sc., M.Sc. (ABU); Ph.D. (OAU)                  Reader

G. T. Ijaiya                   B.Sc., M.Sc., (Jos); Ph.D. (UDUS)                  Reader

R. A. Bello                     B.Sc., M.Sc., Ph.D. (ABU)                   Senior Lecturer

H. I. Mobolaji               B.Sc., M.Sc.(Ibadan); Senior Lecturer
                                (Leicester)Ph. D.

A. F. Oshodi                   B.Sc. (Ibadan); M.Sc., (Lagos)                   Lecturer I

I.A. Abdulraham               B.Sc., M.Sc. (Maiduguri)                     Lecturer I

S. B. Akanbi                   B.Sc. (UDUS); M.Sc., Ph.D. (Ilorin)            Lecturer I

A. T. Yakubu                   B.Sc.(Ilorin); M.Sc. (Ibadan); Ph.D. (Ilorin)    Lecturer I
A. A. Kilishi     B.Sc. (Ilorin) ; M.Sc., Ph.D. (Ibadan)     Lecturer I
M. A. Yaru       B.Sc. (Ilorin); M.Sc. (ABU)       Lecturer I
I. O. Balogun    B.Sc., M.Sc., (Ibadan)         Lecturer II
D. Mustapha      B.Sc. (BUK) ; M.Sc. (UDUS) ; Ph.D. (Malaysia)   Lecturer II
S. O. Adewara    B.Sc., M.Sc. (Ilorin), Ph.D. (Cape Town) Lecturer II
G. Olaseinde-Williams B.Sc.(ACU ); M.Sc. EMU, North Cyprus)    Assistant Lecturer
Nafisat Abdulazeez B.Sc.(Maiduguri); M.Sc. (ABU)    Assistant Lecturer
M. A. Ojuolape   B.Sc. (Ilorin); M.Sc. (Surrey, U.K)   Assistant Lecturer
H.A. Yusuf       NCE (Ilorin), B.Sc. (Ed.), M.Sc. (Ibadan) Assistant Lecturer
M.K. Alabi       B.Sc., M.Sc. (Ilorin)               Assistant Lecturer
J. A. Sanni      B.Sc. (Khartoum)                  Graduate Assistant

DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

Rodah M.Olanrewaju B.Sc.(Ibadan), M.Sc.(Ilorin); Ph.D. (FUTM)   Senior Lecturer & Ag.Head

J. F.Olorunfemi   B.Sc.(Ibadan); Ph.D. (Bristol)     Professor
<table>
<thead>
<tr>
<th>Name</th>
<th>Qualifications</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. F. Adedayo</td>
<td>B.Sc. (ABU); M.Sc. (London); Ph.D. (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>R. A. Olawepo</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin)</td>
<td>Professor</td>
</tr>
<tr>
<td>L. T. Ajibade</td>
<td>B.Sc., M.Sc. (Buk); Ph.D. (OAU), Adv. Cert. GIS (FSSO)</td>
<td>Reader</td>
</tr>
<tr>
<td>S. L. Tilakasiri</td>
<td>B.Sc., M.A., M.Sc., Ph.D. (Sweden); PGD (Norway)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>U. A. Raheem</td>
<td>B.Sc., M.Sc., Ph.D. (Ibadan), Adv. Cert. (Oyo)</td>
<td>Senior Lecturer</td>
</tr>
<tr>
<td>Y. A. Ahmed</td>
<td>B.A (Ed.), M.Sc., Ph.D. (Ilorin)</td>
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<tr>
<td>K. A. Iroye</td>
<td>B.Sc., M.Sc., Ph.D. (Ilorin); PGDE (Ado-Ekiti)</td>
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<tr>
<td>G. P. Afolayan</td>
<td>B.A. (ABU), M.Sc., (Jos), MBA (Ilorin), PGD (Rotterdam), Ph.D. (Ilorin).</td>
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<tr>
<td>Afolabi M. Tunde</td>
<td>B.Sc., MBA, M.Sc., Ph.D. (Ilorin), PGDE (Kaduna)</td>
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<tr>
<td>B. A.Usman</td>
<td>B.Sc.(ABU); M.Sc.(Ilorin); Ph.D. (ABU), PGDE (NTI)</td>
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<tr>
<td>I.O. Orire</td>
<td>B.Sc., M.Sc. (Ilorin); PGDE (NTI); Ph.D. (ABU)</td>
<td>Lecturer I</td>
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</tbody>
</table>
DEPARTMENT OF POLITICAL SCIENCE

J. O. Olaniyi  B.Sc., M.Sc., Ph.D. (Ilorin)  Senior Lecturer & Ag. Head

A. E. Davies  B.Sc. (Aristotle); M.Sc. (OAU); Ph.D. (Lagos)  Professor

H. A. Saliu  B.A. (BUK); M.Sc. (OAU); Ph.D. (BUK)  Professor

Adedoyin J. Omede  B.Sc., M.Sc., Ph.D. (Lagos)  Senior Lecturer

E. O. Ojo  B.Sc., M.Sc., Ph.D. (Ibadan)  Senior Lecturer

F. A. Aremu  B.Sc. (Jos); M.Sc. (UDUS); Ph.D. (Beppu, Japan)  Senior Lecturer

L. Saka  B.Sc., M.Sc. (Ibadan); Ph.D. (Sintok)  Lecturer I

J. O. Durojaiye  B.Sc. (Ibadan); M.Sc. (OAU)  Lecturer I

A. A. Muhammad  B.Sc., M.Sc. (Ilorin).  Lecturer I
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<tr>
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<tr>
<td>Fatima O. Aliu</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<td>A.R. Bakare</td>
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<td>O.M. Adebiyi</td>
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<td>A. Abubakar</td>
<td>B.Sc. M.Sc (Ilorin)</td>
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<td>A.A. Isiaq</td>
<td>B.Sc.; M.Sc. (Ilorin)</td>
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# DEPARTMENT OF PSYCHOLOGY

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<tr>
<th>Name</th>
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<tr>
<td>Prof. B. Salawu</td>
<td>B.Sc. (ABU); M.Sc. (Lagos); Ph.D. (Ibadan)</td>
<td>Professor &amp; HOD</td>
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<tr>
<td>A.S. Opayemi</td>
<td>B.Ed.; M.Sc.; Ph.D. (Ibadan)</td>
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<td>O.D. Fagbamila</td>
<td>B.Sc; M.Sc.; (Ilorin)</td>
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<tr>
<td>Omolara R. Faworaja</td>
<td>B.Sc. (Lincon,Uk); M.Sc. (Anglia Ruskin, Uk)</td>
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<tr>
<td>Basirat A. Ibrahim</td>
<td>B.Sc.; M.Sc. (Ibadan)</td>
<td>Assistant Lecturer</td>
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# DEPARTMENT OF SOCIAL WORK

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<td>J.O. Fayeye</td>
<td>B.Sc., M.Sc. PhD. (Ibadan)</td>
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<td>M.A. Yahaya</td>
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<td>S.T. Saliman</td>
<td>B.Sc (Sokoto); M.Sc. (Ibadan)</td>
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<td>M.S. Yusuf</td>
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<tr>
<td>A. Abdulhammed</td>
<td>B.Sc. (Sokoto)</td>
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<td>Deborah S. Adekeye</td>
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<td>B. Salawu</td>
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<td>R.A. Seniyi</td>
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<td>R. O. Yousouph</td>
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<td>M. A. Adebisi</td>
<td>B.Sc., M.Sc., (Lagos); Ph.D. (Cameroon)</td>
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<td>A. Raji</td>
<td>B.Sc., M.Sc. (Ilorin), PGDE</td>
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<td>S.Z. Abdulbaqi</td>
<td>B.Sc. (UDUS); M.Sc. (Ilorin)</td>
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<td>S.J. Akor</td>
<td>B.Sc., PGDM. (Jos); MBA (UDUS); M.Sc. (Ilorin)</td>
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<tr>
<td>A.G. Olatunji</td>
<td>B.Sc., M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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<tr>
<td>T.O. Tejideen</td>
<td>B.Sc.; M.Sc. (Ilorin)</td>
<td>Assistant Lecturer</td>
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</tbody>
</table>
Kafayat O. Mahmoud  B.Sc. (Ilorin)  Graduate Assistant
M. Issah  B.Sc. (Ilorin)  Graduate Assistant
B.Sc. Economics

ECN 101  Principles of Economics I  3 Credits

45h (T); C

ECN 102  Principles of Economics II  3 Credits
Analysis of money and banking. Elementary models of income and employment. Introductory concepts in international trade theory. Taxation and public expenditure. Introduction to budgeting and national development planning.

45h (T); C

ECN 103  Introduction to Statistics I  2 Credits

30h (T); C

ECN 104  Introduction to Statistics II  2 Credits

30h (T); C

ECN 105  Introductory Mathematics for Economics I  2 Credits

30h (T); C

ECN 106  Introductory Mathematics for Economics II  2 Credits
Co-ordinate geometry. Introduction to calculus, differentiation and integration. Economic applications of differentiation and integration.

30h (T); C
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<td>Applied Economics I</td>
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<td>Survey of West African economies. Transport and</td>
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<td>ECN 204</td>
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<td>ECN 205</td>
<td>History and Structure of the Nigerian Economy I</td>
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</table>
Analysis of development of economic and social organizations in the pre-colonial and post-colonial periods. Role of agriculture, industry, money and banking, and international trade in Nigeria’s economic development. Growth of income, employment, wages and prices. Public development institutions.

30h (T); C

ECN 206  History and Structure of the Nigerian Economy II  2 Credits

30h (T); C

ECN 207  Statistics I  2 Credits

30h (T); C

ECN 208  Statistics II  2 Credits

30h (T); C

ECN 209  Mathematics for Economics  2 Credits

30h (T); C

ECN 210  History of Economic Thought I  3 Credits

45h (T); C

ECN 211  Theories of Human Resources  2 Credits

30h (T); E
ECN 212  Labour Economics  2 Credits
Demand and supply of labour. Theories of wage determination. Theories of unemployment. Wage differentials. Trade Unionism.
30h (T); E

ECN 213  Monetary Economics  2 Credits
Definition, origin, kinds and functions of money. Demand and supply of money. Expansion and contraction of money by banks. Theories of interest rate. Inflation as a monetary phenomenon. Developments in monetary thought. Monetary policy.
30h (T); C

ECN 214  Urban and Regional Economics  2 Credits
Application of microeconomics to urban economy. Applied location theory. Theories of socio-economic development and change at international, regional and intra-urban levels. Urban problems and basic needs: housing, employment, environmental quality, poverty and provision of urban services. Problems and role of the state in urban and regional development.
30h (T); E

ECN 301  Microeconomics III  2 Credits
Mathematical treatment of microeconomic theory using Linear programming. Advanced treatment of price and output determination under perfect competition, oligopoly, and monopoly.
30h (T); C, PR: ECN 201 & ECN 202

ECN 302  Microeconomics IV  2 Credits
Mathematical treatment of the general equilibrium microeconomics. Exchange theory, offer and contract curves. Introduction to capital theory. Types of production function.
30h (T); C, PR: ECN 201 & ECN 202

ECN 303  Macroeconomics III  2 Credits
Concept of national income. Comparison of classical, Keynesian and monetarist system approach. Introduction to macro-rational expectation proposition and the Ricardian Equivalence hypothesis.
30h (T); C, PR: ECN 203 & ECN 204

ECN 304  Macroeconomics IV  2 Credits
Problems of unemployment and inflation. ISLM analytical apparatus. Relative effectiveness of monetary and fiscal policies.
30h (T); C, PR: ECN 203 & ECN 204
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<td>ECN 307</td>
<td>Econometrics and Research Methods</td>
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<td>ECN 308</td>
<td>History of Economic Thought II</td>
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<td>ECN 311</td>
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<td>ECN 312</td>
<td>Public Finance I</td>
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Trends in government activities. Efficiency in government expenditures. Introduction to fiscal stabilization. Economics of public 
debt.
30h (T); C

ECN 313  International Trade  3 Credits
International Trade and economic theory. Domestic versus international trade. Classical and modern theories of international trade.
Terms of trade. Effects of trade on factor prices. Stolper-Samuelson. Protection in international trade. Economic integration e.g.
ECOWAS.
45h (T); E

ECN 314  Financial Institutions  2 Credits
Importance of money in the modern economy. Financial institutions. Relationship between central authority and financial
institutions. Commercial, development and merchant banks. Non-bank financial institutions. Money and capital markets in less
developed countries. International financial organizations.
30h (T); E

ECN 315  Applied Monetary Economics  2 Credits
Structure and functions of the financial system. Demand and supply of money and other financial assets. Interest rate
determination. Inflation. macroeconomic objectives and stabilization policies. Monetary policies: instrUTMs, goals and
relative effectiveness.
30h (T); E

ECN 316  Political Economy  2 Credits
Basic distinguishing features of bourgeois and dialectical methods of analysis. Historical materialism. Classification of social
systems. Theory of social classes. Marxist theory of capital accumulation. Metropolitan and satellite economic relations.
Colonialism and neo-colonialism. Stages of socialist and capitalist developments.
30h (T); E

ECN 317  Mathematical Economics I  2 Credits
Linear and non-linear models. Static and dynamic models. Advanced treatment of input-output analysis. General equilibrium
analysis.
30h (T); E

ECN 318  Tourism Economics  2 Credits

30h (T); E

ECN 319  Economics of Cooperative Movements  2 Credits
30h (T); E

ECN 320  Health Economics  2 Credits
30h (T); E

ECN 321  Industrial Economics  2 Credits
30h (T); E

ECN 401  Microeconomics V  2 Credits
30h (T);C, PR: ECN 301, ECN 302

ECN 402  Microeconomics VI  2 Credits
Theories of determination of wages, rent, interest and profit. General equilibrium and disequilibrium. Welfare economics and notions of efficiency and equity. Externalities, social and private costs. Other areas of market failure.
30h (T); C, PR: ECN 301, ECN 302

ECN 403  Macroeconomics V  2 Credits

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<td>Economics of Production</td>
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30h (T); E

ECN 412  Applied Statistics III  
2 Credits

30h (T); C,  PR: ECN 306

ECN 413  Issues in Development  
2 Credits

30h (T); C,  PR: ECN 304

ECN 414  Econometrics  
2 Credits

30h (T); E,  PR: ECN 307

ECN 415  Mathematical Economics II  
2 Credits
Mathematical programming. Dynamic programming. Optimal control theory with emphasis on Bellman and Pantryagin approaches. Game theory and applications. Linear, difference and differential equation systems.

30h (T); E,  PR: ECN 317

ECN 416  Petroleum Economics  
2 Credits

30h (T); E

ECN 417  International Finance  
3 Credits
Coverage and measurements of balance of payments in Nigeria. Adjustment policies. Foreign exchange market, exchange rate and key currencies. Transfer problems and capital movements in international services. International monetary systems.

45h (T); E
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<tr>
<td>ECN 420</td>
<td>Public Policy II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Relationship between the size of public sector and economic development. Analysis of selected public policies in Nigeria: monetary, exchange rate, public debt, developmental, industrial and other policies.</td>
<td></td>
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<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>ECN 421</td>
<td>Nigerian Public Finance</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>ECN 423</td>
<td>Economic Planning I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>ECN 424</td>
<td>Economic Planning II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
</tr>
<tr>
<td>ECN 499</td>
<td>Project</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY

100 LEVEL

Compulsory Courses: ECN 101(3), 102(3), 103(2), 104(2), 105(2), 106(2) = 14 Credits

Required Courses: ACC 101(3), BUS 101(3), 103(3), FIN 112(3), GNS 111(2), 112(2) = 16 Credits

Elective Courses:
(a) At least one of ACC 102(3), BUS 102(3) = 3 Credits
(b) At least two Credits from the following: POS 111(3), 114(3), SOC 101(2) = 2 Credits

Total = 35 Credits

200 LEVEL

Compulsory Courses: CN 201(2), 202(2), 203(2), 204(2), 205(2), 206(2), 207(2), 208(2), 209(2), 210(3) = 21 Credits

Required Courses: SOC 217(2), ECN 216(2), POS 221(2), GNS 211(2), 212(2) = 10 Credits

Elective Courses:
(a) At least one of ECN 212(2), 213(2) = 2 Credits
(b) At least 3 Credits from the following: ACC 201(3), 202(3), BUS 201(3), 203(2) = 3 Credits

Total = 36 Credits

Direct Entry Students: GNS 111(2), 112(2) = 4 Credits

300 LEVEL

Compulsory Courses: ECN 301(2), 302(2), 303(2), 304(2), 306(2), 307(2), 308(2), 309(2), 310(2), 312(2) = 20 Credits
**Required Courses:**
GPY 301 (2), BUS 301 (3), GNS 311 (2), GSE 301 (3)
= 10 Credits

**Elective Courses:**
At least 6 Credits from ECN 313 (3), 314 (2), 315 (2), BUS 313 (3), 314 (3), ACC 214 (3)
= 6 Credits

Total = 36 Credits

**400 LEVEL**

**Compulsory Courses:**
ECN 401 (2), 402 (2), 403 (2), 404 (2), 405 (2), 406 (2), 407 (2), 412 (2), 413 (2), 423 (2), 424 (2), 499 (6)
= 28 Credits

**Required Courses:**
ECN 410 (2), 420 (2)
= 4 Credits

**Elective Courses:**
(a) At least one from ECN 411 (2), 417 (2)
(b) At least one from ECN 414 (2), 416 (2)
= 4 Credits

Total = 36 Credits

**Graduation Requirement**
UTME=143 Credits
DE= 111 Credits

**DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT**

**Course Description**

**B.Sc. Geography and Environmental Management**

**GPE 121 Introduction to Environmental Systems I**
3 Credits
Definition, scope and basic elements of Environmental System. Composition and structure of the lithosphere; atmosphere, and biosphere. First order relief forms of the earth. Introduction to energy and mass budgets including atmospheric motion, solar radiation and water budgets. Climatic elements and interaction with vegetation, animals and humans in ecosystems.
45h (T); C
GPE 122  Introduction to Environmental Systems II  3 Credits
Radiation transfer processes in the earth–atmosphere systems. Oceanic circulations and their effects. The cycling of matters and energy in ecosystems. Agents and processes of landform shaping and soil genesis. Major emphasis on the genesis, distribution and utility of surface features.
45h (T); C

GPE 131  Introduction to Human Geography  3 Credits
45h (T); C

GPE 132  Introduction to Man-Environment Interaction  3 Credits
Global environmental issues affecting climate; sustainable agriculture; waste management; deforestation; population and energy. Human response and decision-making tools and implications. Case studies of industrialization.
45h (T); C

GPE 141  Nigerian Environment  3 Credits
45h (T); C

GPE 193  Introduction to Map Work  3 Credits
Representation and analysis of relief, hydrographic, and cultural features, on topographical maps. Type of statistical maps and diagrams. Graphical presentation of geographical data.
30h (T); C

GPE 194  Introduction to Cartography  3 Credits
Development of cartographic skills: basic drafting, lettering, shading and colouring. Geometrical drawings. Cartographic representation of statistical data.
30h (T); C

GPE 196  Introduction to Environmental Management  3 Credits
Introduction the complex interaction among social, political, cultural, economic framework for modern environmental management. Basic environmental issues, challenges and opportunities. Holistic and interdisciplinary perspectives to environmental management. Environmental problems in Nigeria – Case studies.

45h (T); C

**GPE 221**  
**Environmental Science**  
3 Credits  
Systems approach to the study of environmental science. Energy systems in the atmosphere, hydrosphere, lithosphere and biosphere. Current environmental issues including environmental pollution and natural hazards, erosion, drought, earthquakes, hurricanes, etc.

45h (T); C

**GPE 222**  
**Principle of Geomorphology and Soil Geography**  
3 Credits  

45h (T); C

**GPE 223**  
**Principles of Climatology and Biogeography**  
3 Credits  

45h (T); C

**GPE 231**  
**Spatial Organization**  
3 Credit  
Concept of space and types of geographic space. Basis pattern of geographic location. Space perception and locational decision. Spatial organization and reorganization.

45h (T); C

**GPE 232**  
**Man-Environment Interaction**  
3 Credits  

45h (T); C

**GPE 293**  
**Surveying and Map Analysis**  
3 Credits  
Simple surveying equipment and their uses. Distance and area measurements. Basic principles of surveying (chain and tape survey). Obstacles to chaining. Compass traversing and error of closure. Plane tabling. Simple reciprocal leveling. Quantitative
analysis of physical drainage and cultural features on topographical map. Analysis of other selected maps - geographical, land-use and weather maps.

45h (T); C

**GPE 296 Geographic Information System**

3 Credits


45h (T); C

**GPE 298 Industrial Training Attachment**

1 Credit

Acquisition of practical skills in geography and environmental management in industries for a period of 12 weeks. Industrial attachment report.

45h (P); C

**GPE 299 Local fieldwork**

1 Credit

Field study of the local environment to demonstrate classroom lessons learnt in the systematic aspect of Geography as well as familiarize students with the geography of the local environment.

45h (P); C

**GPE 301 Computer Application in the Social Sciences**

2 Credits

Basic Components of a computer: computer memory system, storage devices and ports, some inputs and output devices. Introduction to MSW. Working with MSW - creating, editing, saving a document, etc. Font manipulation, working with charts and graphs.

30h (T); R

**GPE 311 Geographic Thought**

3 Credits

The scope and definition of geographic thought. History of geographic thought from ancient time through the middle ages to the present time. Paradigms and revolution, positivist, humanistic and structuralist approaches. Changing themes in modern geographic methods and philosophy. Case studies.

45h (T); C

**GPE 321 Climatology**

2 Credits
30h (T); C

**GPE 322**  
**Geomorphology**  
2 Credits  
30h (T); C

**GPE 324**  
**Hydrology**  
2 Credits  
30h (T); E

**GPE 325**  
**Soil Geography**  
2 Credits  
30h (T); E

**GPE 326**  
**Biogeography**  
2 Credits  
30h (T); C

**GPE 328**  
**Political Geography**  
2 Credits  
Contemporary issues in geo-politics and political geography. Political regions - states, capitals, cores and hinterland areas. Frontiers, boundaries, landlocked and water fringed states. Problems of racial, ethnic and minority states. Politics of resource exploitation and management. Electoral problems and processes (e.g. voting behavior). International organization and unions.  
30h (T); E

**GPE 331**  
**Population Geography**  
3 Credits  
45h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPE 336</td>
<td>Economic Geography</td>
<td>2</td>
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<td>30h (T); C</td>
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</tr>
<tr>
<td>GPE 339</td>
<td>Settlement Geography</td>
<td>3</td>
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<tr>
<td></td>
<td>45h (T); E</td>
<td></td>
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<tr>
<td>GPE 342</td>
<td>Social Geography</td>
<td>3</td>
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<tr>
<td></td>
<td>45h (T); E</td>
<td></td>
</tr>
<tr>
<td>GPE 344</td>
<td>Geography of Africa</td>
<td>2</td>
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<tr>
<td></td>
<td>30h (T); C</td>
<td></td>
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<tr>
<td>GPE 346</td>
<td>Location Theory</td>
<td>3</td>
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<tr>
<td></td>
<td>Role of location theories in geography. Evolution of theories relating to land use, industrial location, urban spatial structure, settlement distribution (central place theory, diffusion theory), service activities, transport, etc.</td>
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<tr>
<td></td>
<td>45h (T); C</td>
<td></td>
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<tr>
<td>GPE 348</td>
<td>Elements of Medical Geography</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>30h (T); E</td>
<td></td>
</tr>
<tr>
<td>GPE 391</td>
<td>Field and Laboratory Techniques</td>
<td>1</td>
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<tr>
<td></td>
<td>Relevance of laboratory in geography and Environmental management. Basic Laboratory equipment in Environmental Management: Wet Laboratory, GIS and remote sensing Laboratory, Cartography laboratory. Laboratory analyses in physical</td>
<td></td>
</tr>
</tbody>
</table>
geography: Soil analysis, water analysis, vegetation analysis. Laboratory analysis in man’s environment: basic procedures in mapping.
15h (T); C

GPE 392 Data Analysis and Computer Appreciation 2 Credits
Sources of geographical data and methods of their collection. Data description and characteristics. Samples comparisons and analysis of relationship. Point, line and areal patterns. Use of computers in geographical analysis.
30h (T); C

GPE 393 Fieldwork 3 Credits
Formulation of fieldwork objectives. Field observations and measurements in physical and human geography. Presentation of fieldwork report. Supervised fieldwork programme in selected areas in Nigeria.
15h (T), 90h (P); C

GPE 394 Remote Sensing and Air-Photo interpretation 2 Credits
15h (T), 45h (P); E

GPE 395 Cartography 3 Credits
30h (T), 45h (P); C

GPE 396 Philosophy and Methodology 3 Credits
Paradigms, theories, models and system analysis in geography. Types, Objectives and procedures of geographical investigation. Presentation and analysis of fieldwork data.
45h (T); C

GPE 398 Industrial Training Attachment 2 Credits
Attachment with industries. Institutions/organizations for 12 weeks for acquisition of practical skills of the concepts learnt in map work, GIS, human and physical geography.
90h (P); C

GPE 399 Transport Geography 3 Credits

45h (T); E

GPE 422  Applied Climatology  3 Credits

45h (T); E

GPE 424  Applied Geomorphology  3 Credits
Meaning and scope of geomorphology. Geomorphologic applications in urban landscape planning, engineering, soil erosion control, mining and excavation. River Basin as a geomorphic unit. Depth of weathering and regolith aquifers.

45h (T); E

GPE 425  Vegetation Studies  3 Credits

45h (T); E

GPE 426  Environment and Development in Nigeria  3 Credits
Environmental problems of Nigeria with emphasis on land-use planning and resource exploitation. Industrialization, pollution, transportation, energy, and hazards. Environment and development policies and strategies. Case Studies.

45h (T); C

GPE 427  Resource Management and Conservation  3 Credits

45h (T); E

GPE 428  Population, Health and Environment  3 Credits

45h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GPE 429</td>
<td>Geography of Climate Change</td>
<td>3</td>
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<tr>
<td></td>
<td>Theory of Climate change. Evidence of global climate change. Interaction and interrelationships of humans and the environmental systems. Problems and consequences of climate change. Policy issues on climate change. Climate change in Nigeria.</td>
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<tr>
<td></td>
<td></td>
<td>45h (T); E</td>
</tr>
<tr>
<td>GPE 431</td>
<td>Governance and Sustainability</td>
<td>3</td>
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<tr>
<td></td>
<td>Introducing the concept of sustainability and environmental governance. A comprehensive overview of the major issues, ideas, institutions and interests that make up the global politics and implications for sustainable development. The competing perspectives on the sources of global environmental problems and how they can best be alleviated. The evaluation of environmental agenda in world wealth. Poverty and global environmental agreement and treaties.</td>
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<tr>
<td></td>
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<td>45h (T); E</td>
</tr>
<tr>
<td>GPE 432</td>
<td>Urban and Regional Geography</td>
<td>3</td>
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<tr>
<td></td>
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<td>45h (T); E</td>
</tr>
<tr>
<td>GPE 433</td>
<td>Manufacturing Geography</td>
<td>3</td>
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<tr>
<td></td>
<td>Plant location decision and cost variability. Scale and agglomeration economics. Technology, industrial linkages and industrial change and movement. Industrial analysis and manufacturing impact of small, medium and large plants on urban, rural and regional development. Case studies.</td>
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<tr>
<td></td>
<td></td>
<td>45h (T); E, PR. GPE 336</td>
</tr>
<tr>
<td>GPE 434</td>
<td>Geography and Inequality</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>45h (T); E, PR. GPE 342</td>
</tr>
<tr>
<td>GPE 436</td>
<td>Environmental Planning</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Theories, concepts and scope of environmental planning. Perspectives on planning for the environment. Environmental planning process. Taking stock of local and urban environment and creating environmental action plans. Planning for natural areas and built environment. Case studies e.g. planning for water supply or waste recycling etc.</td>
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<td></td>
<td></td>
<td>45h (T); C</td>
</tr>
</tbody>
</table>
GPE 437  Rural System Analysis  3 Credits
Rural land use, food security and constraints. Rural development policies and constraints to rural development etc.
45h (T); E

GPE 441  Environmental Impact Assessment  2 Credits
30h (T); C

GPE 443  The Developing World  2 Credits
30h (T); C

GPE 444  The Developed World  2 Credits
Differences between developing and developed world. Social, political and economic frameworks of the capitalist and centrally planned states. Historical evolution and geographical bases of economies of western Europe, USA, Japan and USSR. International trade and implications for global economy.
30h (T); C

GPE 452  Land Evaluation and Management  3 Credits
Need for, purposes of, and approaches to land evaluation in different planning environments. Terrain analysis and the land systems method. Role of remote sensing in land resources appraisal. Land capability classification systems and agricultural land evaluation.
45h (T); E, PR. GPE325

GPE 453  Water Resources  3 Credits
Water as a strategic resource. Worlds water resources inventories and surveys. Use of water for industrial, domestic, commercial and agricultural purposes. Harnessing of water resources for rural and urban use: Boreholes, wells, dams etc. Case Studies of water supply in Nigeria.
45h (T); E, PR. GPE324

GPE 454  Disaster and Society  3 Credits

45h (T); E

**GPE 455 Watershed Management**

3 Credits

45h (T); E

**GPE 456 Geography of Food and Agriculture**

3 Credits
Land management strategies, crop and livestock farming. Agrarian change and extension services. Agriculture and national development planning in Nigeria. Physical and human resources in tropical agriculture. The political economy of food production. Food production and environment, food and cultures food and spatial pattern of malnutrition.

45h (T); E

**GPE 491 Quantitative Techniques**

3 Credits
Application of advanced statistical techniques in geography: multiple and partial regression techniques, trend surface and time series analysis, factor analysis, Introduction to Markov chains and non-parametric statistics.

30h (T), 45h (P); C, PR. GPE 392

**GPE 492 Geographic Information System and Environmental Management**

3 Credits
Application issues of Geographic Information Systems to environmental resource management, forecasting and monitoring. Use of GIS software in environmental hazard modeling. Etc

30h (T), 45h (P); C

**GPE 496 Tourism, Recreation and Environment**

3 Credits

45h (T); E
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

270h (P); C
SUMMARY

100 LEVEL

Compulsory Courses: GPE 121 (3), 122(3), 131(3), 132(3), 141(3), 193(3), 194(3), 196(3) = 24 Credits

Required Courses: GNS 111(2) and 112(2) = 4 Credits

Electives Courses: At least 6 Credits from the following (3 Credits from each semester)

Either:
H: BUS 101 (3) 103 (3) ECN 101 (3) POS 111 (3) SOC 101 (3) (2)
R: ECN 102 (2) POS 114 (3) SOC 104 (2)

OR:
H: ZLY 101 (2) 103 (2) CHEM 101 (3) STA 121 (2) 125 (2)
R: PCB 108 (3) EM 104 (2) 106 (2) CHM 112 (2) = 6 Credits

Total = 34 Credits

200 LEVEL

Compulsory Courses: GPE 221 (3), 222(3), 223(3), 231(3), 232(3), 293(3), 296(3), 298(1) and 299(1) = 23 Credits

Required Courses: GNS 211(2), 212(2), SOC 217(2), ECN 216 (2) and POS 221 = 10 Credits

Direct Entry Students: GNS 111(2) and 112(2) = 4 Credits

Electives Courses: At least 4 Credits from the following (2 credits in each semester)

Either:
H: BUS 203(2), ECN 201 (3), SOC 213 (2)
R: BUS 202 (2), ECN 202 (3), SOC 210 (2), 206 (2)

OR:
H: AXR 203 (2), AGY 201 (2), 205 (3), MCB 201 (3), CHM 201 (3), 204 (2), STA 223 (3) 203 (3), GEM
R: AXR 204 (2), BCH 202 (3), 204 (2), MCB 202 (3), CHM 202 (3), 204 (2), 222 (2), STA 224 (3)  
\[ \text{GEM 218 (2), GEM 222 (2), STA 224 (3)} \]
\[ = 4 \text{ Credits} \]

Total = 37 Credits

300 LEVEL

Compulsory Courses: 311(3), 321(2), 322(2), 326(2), 331(3), 336(2), 344(2), 346(3), 391(1), 393(3), 395(3), 396(3) and 398(1)  
\[ = 31 \text{ Credits} \]

Required Courses: GPE 301 (2), GNS 311(2) and GSE 301 (3)  
\[ = 7 \text{ Credits} \]

Electives Courses: At least 3 credits from the following:

H: GPE 339 (3) 399 (3) 325 (2)
R: GPE 324 (2) 328 (3) 342 (3) 394 (3) 348(2)  
\[ = 3 \text{ Credits} \]

Total = 40 Credits

400 LEVEL

Compulsory Courses: GPE 426 (3), 428(3), 436(3), 441(2), 443(2), 444(2), 491(3), 492(3), and 499(6)  
\[ = 27 \text{ Credits} \]

Electives Courses: At least 6 credits from the following (3 Credits in each semester)

H: 425(3), 431(3), 432(3), 433(3), 435(3), 437(3), 429(3), 453(3) 455(3) and 496(3)
R: 422(3), 424(3), 434(3), 452(3), 454(3), 456(3)  
\[ = 6 \text{ Credits} \]

Total = 33 Credits

Graduation Requirements:

UTME = 144
D/E = 114
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 111</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POS 112</td>
<td>Nigerian Constitutional Developments</td>
<td>3</td>
</tr>
<tr>
<td>POS 114</td>
<td>Organization of Government</td>
<td>3</td>
</tr>
<tr>
<td>POS 115</td>
<td>Nigerian Legal System I</td>
<td>2</td>
</tr>
<tr>
<td>POS 116</td>
<td>Nigerian Legal System II</td>
<td>2</td>
</tr>
</tbody>
</table>

**Course Description**

**B.Sc. Political Science**

**POS 111 Introduction to Political Science**

*45h (T); C*

**POS 112 Nigerian Constitutional Developments**

*45h (T); C*

**POS 114 Organization of Government**
Organization of government into Legislature, Executive and Judiciary. Functions of government. Theory of separation of powers. Application of the theory of checks and balances. Forms of political administrative system: unitarism, federalism, confederalism, parliamentary and presidential systems as well as the hybrid. Political parties and pressure groups as facilitators in organizing the state. Law making powers of the state and the legislative process. Types of political executive.

*45h (T); C*

**POS 115 Nigerian Legal System I**

*30h (T); C*

**POS 116 Nigerian Legal System II**
POS 117  Elements of Democracy  3 Credits
Origin and meaning of democracy. Its variations and practices across social settings. Differences between democracy and other forms of governmental organisation.

POS 211  Introduction to Nigerian Government and Politics I  2 Credits

POS 212  Introduction to Nigerian Government and Politics II  2 Credits

POS 213  Introduction to International Relations  3 Credits
Meaning and scope of international relations. Actors in international relations and the structure of the international system. Basic characteristics of the system. Elements of nation power. Interaction among states. War and peace in international relations. Third World countries in the international institutions.

POS 214  Introduction to Public Administration  3 Credits
Meaning and scope of Public Administration. Rationale for administration. Public administration and private management. Public administration, actors in administration and administrative behavior. Administrative organisation and re-organisation.

POS 215  Introduction to Political Theory  2 Credits
Introduction to major political ideas in their historical and social context. Differences between political ideas and political movement, ideology and functions. Discussions of major ideologies: monarchism, liberalism, democracy, fascism, conservatism, totalitarianism and socialism.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 216</td>
<td>Introduction to Political Analysis</td>
<td>2</td>
</tr>
<tr>
<td>POS 217</td>
<td>Foundations of Political Economy</td>
<td>3</td>
</tr>
<tr>
<td>POS 218</td>
<td>Introduction to Local Government Studies</td>
<td>3</td>
</tr>
<tr>
<td>POS 222</td>
<td>Introduction to Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 220</td>
<td>Introduction to African Politics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Evolution of politics from the pre-colonial time to the present day. Imperialism and colonialism. Colonial policies and decolonization process. Emergence of one-party states. Problems of nation building. National integration, political instability and modernization, praetorianism, secession and civil war. Problems and prospects of democracy in Africa. Africa in the international political system.</td>
<td></td>
</tr>
</tbody>
</table>
POS 311 Classical Political Thought 2 Credits
Scope and importance of political thoughts. Examination of the political thoughts of the classical writers. Plato and Aristotle. The Greek-city states and the concept of democracy in the classical era. Political thoughts of St. Augustine, Thomas Acquinas and Machiavelli.
30h (T); C

POS 312 Contemporary Political Thought 2 Credits
Examination of selected political thinkers: Thomas Hobbes, John Locke, J.S. Mill, Jeremy Beutham; J.J. Rousseau and Karl Marx. Emphasis on the concept of the state, freedom of the citizen and the authority of the state.
30h (T); C

POS 313 Research Methods 2 Credits
Introduction to research methods in political science. Logic of political research, descriptive and quantitative methods in political enquiry. Research design, language of variables, hypothesis and problem formulation. Distribution, tables, summarization of political information and data, frequency distribution, tables graphs and inferential statistics. Sampling theory and techniques. Sources of information and problems of reliability. Methods of referencing in political science.
30h (T); C

POS 314 Contemporary Political Analysis 2 Credits
Contending paradigms in contemporary political analysis, evaluation of their philosophical and ideological roots. Elite approach, group theory, functionalism, system analysis and communication theory, games theory and cybernetics. Structural analysis. Theories of political government. Decision making approach.
30h (T); C

POS 315 Political Behaviour 2 Credits
Determinants of political behaviour, political socialization, political/civil culture, political participation and apathy. Electoral behaviour, followers and leaders and election. Public opinion and its assessment. Political communication. Community power. Gender and politics.
30h (T); C

POS 316 Public Policy Analysis 2 Credits
30h (T); C
POS 317 Comparative Federalism 2 Credits
The genesis of political dynamics of comparative federal system. Theory, practice and suitability of federal system to the problems of nation-building. Comparative analysis of the federal structures in at least four states among the federal states. Nigeria, U.S.A., Germany, India, Canada, Brazil and the new Russia.
30h (T); C

POS 318 Public Administration in Nigeria 2 Credits
30h (T); C

POS 319 Theories of International Relations 2 Credits
Concepts and theories of international relations, powers, conflict and accommodation, systems theories, linkage politics, theory of coalition and alliances. Models, games and simulations. New international political order.
30h (T); C

POS 320 Globalization 2 Credits
Concept of globalization and its relevance to inner-state relations. Components of globalization and their significance to relations among states. Schools of thought on globalization. Critique of globalization especially from the third world perspective.
30h (T); E

POS 321 Politics of International Economic Relations 2 Credits
Economic basis of some of the actions and reactions in international politics. Theory of unequal exchange and the North-South problems, South-South economic cooperation. New International economic order, genesis of debates and outcome. The role of international economic institutions: World Bank, IMF, OECD, ECOWAS, AU and EU. Prospects and problems of economic integration, Multinational corporations and development.
30h (T); E

POS 322 Conflict Management 2 Credits
30h (T); E
**POS 323 Methodology of Comparative Politics**
2 Credits


30h (T); C

**POS 324 Africa in Global Affairs**
2 Credits


30h (T); E

**POS 325 Personnel Administration I**
2 Credits


30h (T); E

**POS 326 Theory and Practice of Marxism**
2 Credits


30h (T); E

**POS 327 Politics of Privatization and Commercialization**
2 Credits


30h (T); E

**POS 328 Foreign Policy Analysis**
2 Credits


30h (T); E
POS 329  Politics and the Mass Media  2 Credits
30h (T); E

POS 330  Quantitative Analysis  2 Credits
Methods of analyzing politics using the quantitative data. Sampling theory and techniques. Statistical summation of political information and data. Frequency distribution, tables, graphs and inferential statistics.
30h (T); C

POS 331  Politics of Middle East  2 Credits
30h (T); E

POS 332  Political Sociology  2 Credits
30h (T); E

POS 333  Personnel Administration II  2 Credits
30h (T); E

POS 411  Civil-Military Relations  2 Credits
30h (T); C

POS 413  State and Economy  2 Credits

**POS 414 Development Administration**


**POS 415 Democratic Practice in Africa**

Democracy as the best form of government. Practice across the African continents. Problems of democracy in the continent. Its perception as serving a utilitarian value.

**POS 416 Administrative Law**


**POS 417 Local Government Administration of Nigeria**


**POS 418 Nigerian Foreign Policy**

POS 419  International Law and Organizations  2 Credits
Nature, scope and evolution of international law. Sources of international law. Subject of international law. Rights and obligations of states and individuals. Status of international and municipal law recognition and extradition, international organizations, nature and evolution. Leagues of nations: UN and OAU.
30h (T); C

POS 422  Political Party and Pressure Groups  2 Credits
Nature evolution types and functions of political parties; types and functions, Party systems, techniques of operations, internal dynamics of political parties and funding. Political parties in Nigeria. Pressure groups: types, characteristics, objectives and techniques of operations. Public opinion in relation to political parties and pressure groups. Leaders and followers. Distinction between pressure groups and political parties.
30h (T); C

POS 423  African Political Thought  2 Credits
Traditional political ideas, concept of authority, order and policy. Pan-Africanist and other issues linking the indigenous and contemporary African Political thinking. African socialism and humanism.
30h (T); E

POS 424  Poverty and Development in Nigeria  2 Credits
Examination of the nexus between poverty and development. Interface between poverty and development in Nigeria. Indicators of poverty level. Approaches to poverty reduction and their limitations. Poverty analysis.
30h (T); C

POS 425  Electoral Processes  2 Credits
30h (T); E

POS 426  Inter-government Relations  2 Credits
Meaning and scope of inter-governmental relations with emphasis on the informal structures and processes. Conflict and cooperation in inter-governmental relationship and their implications.
30h (T); C
POS 427 Comparative Foreign Policy 2 Credits
Foreign policies of the major powers and the medium powers with emphasis on their capability, goals and strategies. Concept of national interest as perceived by the greater power vis-à-vis the interest of the others. Universal interest versus regional or sub-regional interests.
30h (T); C

POS 428 South East Asia 2 Credits
Strategic and economic importance of South East Asia as a region and its attraction to African countries. Relationships between major power States. Lessons of the developments in the region for African States. The current debate on the region. The future of the region.
30h (T); E

POS 429 Comparative Local Government Administration 2 Credits
Theoretical basis of different local government systems: British, French and American with Nigerian system. Comparison of main features of devolution and deconcentration. Management techniques, community power, finance and central-local relationships.
30h (T); E

POS 430 Food Security and Development in Africa 2 Credits
Food security as an important component of national security. Linkage between food security and development. Food insecurity as an impediment to development efforts in Africa.
30h (T); C

POS 432 Comparative Public Administration 2 Credits
Development, scope and problems of comparative public administration. Comparative public administration with emphasis on the public service, accountability and reform.
30h (T); E

POS 499 Project 6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.
270h (T); C
SUMMARY

100 LEVEL

Compulsory Courses: POS 111(3), 112(3), 114(3), 115(2), 116(2), 117(3) = 16 Credits

Required Courses: GNS 111(2), 112(2), ECN 101(3), 102(3), BUS 103(3), SOC 101(2), 102(2), HIS 101(3), 108(3) = 23 Credits

Total = 39 Credits

200 LEVEL

Compulsory Courses: POS 211 (2), 212(2), 213 (3), 214 (3), 215 (2), 216 (2), 217 (3), 218 (3), 219 (3), 220 (3) = 26 Credits

Required Courses: GNS 211(2), 212(2), BSS 201(2), 202(2), 203(2), SOC 209(2), E C N 201(2), 205(2) = 16 Credits

Direct Entry: GNS 111 (2), 112 (2) = 4 Credits

Total = 42 Credits

300 LEVEL

Compulsory Courses: POS 311(2), 312 (2), 313(2), 314(2), 315(2), 316(2), 317(2), 318 (2), 319 (2), 323 (2), 330 (2) = 22 Credits

Required Courses: GNS 311(2), GSE 301(3), GPY 301(2) = 7 Credits

Elective Courses: At least 10 Credits from the following: POS 320(2), 321(2), 322(2), 324(2), 325(2), 327(2), 328(2), 329(2), 332(2), 333(2), 331(2) = 10 Credits

Total = 39 Credits

400 LEVEL

Compulsory Courses: POS 411(2), 413(2), 414(2), 415(2), 416(2), 417(2), 418(2), 419(2), 422(2), 424(2), 426(2), 427(2), 430(2), 499(6) = 34 Credits
Elective Courses: At least 4 Credits from the following: POS 423 (2), 425 (2), 428 (2), 429(2), 432(2) = 4 Credits
Total = 38 Credits

Graduation Requirements
UTME= 158 Credits
DE= 123 Credits

DEPARTMENT OF PSYCHOLOGY
Course Description
B.Sc. Psychology

PSY 101 Introduction to Psychology I 3 Credits
Definitions, basic concepts and history, elements of psychological bases of behaviour, chemical fundamentals of motivation and emotion, sensation and perception, basic units of nervous system, consciousness and visual sensory processes.
45h (T); C

PSY 102 Introduction to Psychology II 3 Credits
Human information processing, memory theories, learning, human development, personality, consumer psychology, abnormal psychology, forensic/legal psychology.
45h (T); C

PSY 103 Quantitative Methods in Psychology 3 Credits
The meaning of statistics and parameters, the difference between parametric and non-parametric statistics, classification and graphical representation of data, slopes of distribution, measures of central tendency, measures of variability, test of normality, testing hypothesis.
45h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSY 104</td>
<td>History of Psychology</td>
<td>3</td>
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<tr>
<td></td>
<td>Meaning of Psychology, origin and development of Psychology as an academic discipline, schools of Psychology, studies on Africans in the area of child development, intelligence and cognition, perception and development, trends and changes in methods of psychological investigation.</td>
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<td></td>
<td>45h (T); C</td>
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<tr>
<td>PSY 105</td>
<td>Basic Concepts in Experimental Psychology</td>
<td>3</td>
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<tr>
<td></td>
<td>General assumptions underlying the scientific method of inquiry, types of scientific investigation, hypothesis, variables, validity, reliability, sampling method, steps in conducting experimental investigation.</td>
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<td>45h (T); C</td>
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<tr>
<td>PSY 106</td>
<td>Learning Processes</td>
<td>3</td>
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<tr>
<td></td>
<td>Learning and concept formation, the process of classical conditioning, the process of operant conditioning, schedule of reinforcement, concept of punishment, theory of cognitive mapping, insight learning, latent learning, observational learning, imitation and modelling.</td>
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<td>45h (T); C</td>
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<tr>
<td>PSY 201</td>
<td>General Experimental Psychology</td>
<td>2</td>
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<tr>
<td></td>
<td>Methods of inquiry in Psychology, introspection, observation, clinical/case studies, survey, field study, laboratory experiments, basic assumptions of scientific inquiry, steps in conducting Psychological experiments, perception and visual illusion, depth perception, light discrimination, ethical considerations in Psychological research.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>PSY 202</td>
<td>Abnormal Psychology</td>
<td>2</td>
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<tr>
<td></td>
<td>Common types, causes, diagnostic characteristics of mental disorders observable in the Nigerian and other cultures, minor and serious types of mental and personality disturbances, case studies.</td>
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<td>30h (T); C</td>
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<tr>
<td>PSY 203</td>
<td>Physiological Psychology</td>
<td>2</td>
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<tr>
<td></td>
<td>History of physiological Psychology, philosophical and biological roots of physiological Psychology, basic neuro-anatomy and the nervous system, neural control of environment, neural transmission of impulses</td>
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<td>30h (T); C</td>
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<tr>
<td>PSY 204</td>
<td>Industrial Psychology</td>
<td>2</td>
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<tr>
<td></td>
<td>Industrial Psychology with African perspectives and principles, practices and problems, the nature of work and organizations in Africa, major deterrent factors, techniques, tools and problems, personnel testing in organization, criteria, performance appraisal,</td>
<td></td>
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</tbody>
</table>
personnel training and problems of training in organization, motivation, moral, incentives and supervision in African organizations.

30h (T); C

**PSY 205 Social Psychology**

2 Credits

Introductory survey of Social Psychological concepts, influence of group processes, social interactions, organizational variables and culture, social modifications of basic drives, attitudes, social perception, group structures, analysis of socio-psychological fabrics of African societies.

30h (T); C

**PSY 206 Developmental Psychology**

2 Credits

Development in early, middle and late childhood, physical development, an appraisal of theoretical models of Freud, Erikson and Piaget, analysis of the cognitive and social development of the Nigerian child.

30h (T); C

**PSY 207 Psychobiology**

2 Credits

Meaning of Psychobiology, relevance of Biology to understanding human behaviour, the nature-nurture debate, behavioural genetics, principles of ethnology and comparative Psychology, primate societies and social organizations, animal communication (bees, bats).

**PSY 208 Personality Theories**

2 Credits

An overview of the dominant theories of personality, implications of personality theories for psycho analysis, psychoanalytic intervention, psychotherapeutics, existential and humanistic, behavioural and transactional analysis, Gestalt schools.

30h (T); C

**PSY 209 Psychopathology of Deviant Behaviour**

2 Credits

Theories and general conceptions of deviant behaviour in adult and children, analysis of problems of deviance on a socio-psychological scale, in-depth study of some deviant behaviour patterns, a critical analysis of mental illness and criminal responsibility, psychopathic personality, alcoholism and drug addiction, suicide and prostitution.

30h (T); C

**PSY 210 Rehabilitation Psychology**

2 Credits

Conceptions and problems of rehabilitation, crisis intervention, behaviour modification, value clarification, assertiveness training, philosophical principles and guidelines for rehabilitative counselling, ethical consideration in rehabilitation.

30h (T); C
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSY 211</td>
<td>Psychology of Ethnicity and Ethnic Groups</td>
<td>2</td>
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<tr>
<td></td>
<td>Foundations of ethnicity and ethnic groups, race,</td>
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<td></td>
<td>manifestation of ethnic behaviour in different</td>
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<td></td>
<td>forms scapegoating, religious riots, segregation</td>
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<td>into quarters, quota system, resistance to</td>
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<td>interethnic marriages, mechanisms for fostering</td>
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<td>ethnic harmony (NYSC, education, travels and</td>
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<td>tourism, model schools, mass media, etc.).</td>
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<td>30h (T); C</td>
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<tr>
<td>PSY 212</td>
<td>Practical Psychology</td>
<td>2</td>
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<tr>
<td></td>
<td>The application of Psychological principles to</td>
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<td>address day-to-day problems in home, offices and</td>
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<td>social institutions, application of aspects of</td>
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<td></td>
<td>social psychology, abnormal psychology,</td>
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<td>environmental psychology, individual and personal</td>
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<td>psychology</td>
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<td>90h (P); C</td>
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<tr>
<td>PSY 301</td>
<td>Psychological Study of Behaviour</td>
<td>2</td>
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<tr>
<td></td>
<td>State of consciousness (wakefulness and sleep),</td>
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<td>sleep disorders, language and communication,</td>
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<td></td>
<td>language disorders, instinct and motivation</td>
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<td>(hunger, thirst, homeostasis and sex), auditory</td>
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<td></td>
<td>system and visual system.</td>
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<td>30h (T); C</td>
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<tr>
<td>PSY 302</td>
<td>Psychology of Substance Abuse</td>
<td>2</td>
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<tr>
<td></td>
<td>Diagnosis of alcoholism and drug addiction,</td>
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<tr>
<td></td>
<td>rehabilitation of drug addict, various stages of</td>
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<td></td>
<td>alcoholism, drug types and psychological problems</td>
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<td>associated with them.</td>
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<td></td>
<td>30h (T); C</td>
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<tr>
<td>PSY 303</td>
<td>Sensory Process</td>
<td>2</td>
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<tr>
<td></td>
<td>Laboratory exercises in sensory processes,</td>
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<td></td>
<td>review of sensory mechanisms in vision and</td>
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<td></td>
<td>audition, analysis of the structure of sensation,</td>
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<td></td>
<td>laboratory exercises on frequency analysis,</td>
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<td></td>
<td>pitch perception, colour vision, threshold</td>
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<td></td>
<td>measurement and adaptation.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>PSY 304</td>
<td>Clinical Psychology I</td>
<td>2</td>
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<tr>
<td></td>
<td>A survey of the history, practice and theoretical</td>
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<tr>
<td></td>
<td>foundations of Clinical Psychology, differential</td>
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<td></td>
<td>diagnosis and treatment, role of Clinical</td>
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<td></td>
<td>Psychologist in community mental and health</td>
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<td>delivery.</td>
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<td>PSY 305</td>
<td>Personality Assessment</td>
<td>2</td>
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<tr>
<td></td>
<td>Concepts and scope of personality assessment,</td>
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<tr>
<td></td>
<td>history of personality assessment, principles</td>
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<td>and methods of personality assessment, problems</td>
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<td>of personality assessment, projective techniques</td>
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<tr>
<td></td>
<td>and personality inventories, Rorschach ink-blot</td>
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<td>test, Holtzman ink-blot test, Thematic</td>
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<td></td>
<td>Perception Test.</td>
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<td>Course Code</td>
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<tr>
<td>PSY 306</td>
<td>Statistical Techniques in Psychology</td>
<td>2</td>
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<tr>
<td></td>
<td>Descriptive statistics, inferential statistics, techniques of hypothesis testing, Chi Square, Correlation coefficients, Regression analysis.</td>
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<tr>
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<td>30h (T); C</td>
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<tr>
<td>PSY 307</td>
<td>Research Methods in Psychology</td>
<td>2</td>
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<tr>
<td></td>
<td>Examinations of the main approaches to psychological research, epistemological and philosophical foundations of psychological research, sampling and sampling techniques, methods of data collection, Ethical issues in human experimentation</td>
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<td>30h (T); C</td>
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<tr>
<td>PSY 308</td>
<td>Psychological Testing</td>
<td>2</td>
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<tr>
<td></td>
<td>Origin, nature and scope of psychological testing, Methods and steps in Psychological test construction, psychological test validation, reliability, standardization, uses and types of psychological tests, procedures and guidelines of questionnaire construction, constraints and limitations of psychological tests, social and ethical issues in psychological test construction.</td>
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<td>30h (T); C</td>
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<tr>
<td>PSY 309</td>
<td>Practicum in Test Construction</td>
<td>2</td>
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<td></td>
<td>Alternative versus free response, test construction for speed versus typical performance, paper and pencil versus performance test, structural versus projective test, assessment test versus prediction, vocation aptitude test, anxiety scale test, intelligence test.</td>
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<td>90h (P); C</td>
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<tr>
<td>PSY 310</td>
<td>Psychology of Adolescence</td>
<td>2</td>
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<tr>
<td></td>
<td>An examination of the theories relating to development from adolescence through adulthood with emphasis on unique tasks and challenges confronted by individuals at each developmental stage.</td>
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<tr>
<td>PSY 311</td>
<td>Psychology of Women</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>A review of the personality of women, biological differences and socio-psychological and cultural factors, mortality rates of women, role participation and women’s liberation movement, mental abilities, women and career.</td>
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<tr>
<td></td>
<td>30h (T); E</td>
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<tr>
<td>PSY 312</td>
<td>Correctional Psychology</td>
<td>2</td>
</tr>
</tbody>
</table>
An examination of the nature, principles and techniques of criminal behaviour control, law of policing, sentencing and prison experience, theories of punishment, penal system, psychotherapeutic and behavioural methods of criminal control in various socio-economic contexts.

30h (T); E

**PSY 313 Social Psychology of Race and Ethnic Relations**  
2 Credits
Methods, theories, problems, empirical data of Psychology in the area of ethnicity, race and culture in relation to personality development, cognition, pathology with laboratory investigations.

15h (T), 45 (P); E

**PSY 314 Psychological Aspects of Disability**  
2 Credits
Analysis of disability (physical and emotional), society’s view of disability referral programmes, role of Psychologist (practical field experience is required).

15h (T), 45 (P); E

**PSY 315 Comparative Psychology**  
2 Credits
Comparative analysis of the behaviour of animal with emphasis on learning and conceptual; tasks, ethnology, comparative ethnological and laboratory studies of animal behaviour, genetic and acquired behaviour patterns, critical period phenomenon, shyness, reinforcement in comparative psychology, social cohesion, social dispersal.

15h (T), 45 (P); E

**PSY 316 Human Memory**  
2 Credits
An overview of the major variables and task acquisition of verbal material, method and theory of acquisition, long and short-term memory, artificial memory, theoretical intersection between long term and short term memory.

30h (T); E

**PSY 317 Child Psychopathology**  
2 Credits
An overview of major childhood disturbances, issues, theories and trends in research, case history review, laboratory exercises required.

15h (T), 45 (P); E

**PSY 318 Psychology of Social Work and Welfare**  
2 Credits
An examination of the role of voluntary organizations, provision of social services in Nigeria, case study approach in volunteering and social welfare, forms and types of social welfare services in Nigeria.

30h (T); E

**PSY 319  Counselling Psychology**  
2 Credits  
Definitions, psychoanalytic theories, behaviourism, client-centred theory, Gestalt, existential, rational and emotive theories, transactional analysis, types of counselling, modes and methods of obtaining information in counselling, intervention techniques, practicum.  
15h (T), 45 (P); E

**PSY 320  Cross-Cultural Psychology**  
2 Credits  
Research methods in cross-cultural psychology, psychological conception of culture, sociological perspective on culture, anthropological view of culture.  
30h (T); E

**PSY 321  Basic Environmental Psychology**  
2 Credits  
Definitions and history, territoriality, experimental studies of territories, personal space, privacy, crowding and social interaction, cross-cultural comparison of dwellings in Nigeria, accident reduction in the environment, design of institutions, spatial aspects of sports and recreation.  
15h (T), 45 (P); E

**PSY 322  Cognitive Psychology**  
2 Credits  
Developments in cognition in adolescence, early, middle and late adulthood, physical and mental development in adolescence and adulthood, personality and social development, implication of development at these stages for educational policy.  
30h (T); E

**PSY 323  Psychology of Personnel Management**  
2 Credits  
Personnel management in psychological perspective, personnel selection techniques, recruitment, selection and placement, training and development performance appraisal, motivation, satisfaction and morale, leadership and supervision, management of industrial conflicts, collective bargaining.  
30h (T); E

**PSY 324  Political Psychology**  
2 Credits  
Application of contemporary psychological theories, concepts and methods in the study of political behaviour, context and structure of political beliefs and attitudes, personality of politicians, power and politics, psychology of non-elected politicians, misperceptions among foreign policy advisers, group processes and decision making, elections and electoral practices.
PSY 401  Psychological Testing and Test Construction  3 Credits
History, nature and functions of measurement in Psychology, basic statistics in psychological testing, test typology and classification, application of test and measurement, standardization, reliability, validity, application of psychological tests and testing procedures to actual processes and steps in the construction of an objective psychological test as well as test administration.
15h (T), 90h (P); C

PSY 402  Practicum in Psychotherapy  3 Credits
Definition and scope of psychotherapy, basic principles in psychotherapy, objectives of psychotherapy, models of psychotherapy, psychoanalytic model, human behaviour therapy and modification, flooding and impulsive therapy, biofeedback technique, modelling aversion therapy.
15h (T), 90h (P); C

PSY 403  Psychology of Union-Management relations  3 Credits
Basic issues concerning industrial conflicts, role of social and industrial psychologist in development and maintenance of industrial harmony, psychological aspect of labour-management relations, quality of work life and positive union-management relations.
45h (T); C

PSY 404  Cognitive Processes  3 Credits
Psychology and language, structure of language, genetic epistemology, developmental epistemology, comparative research in cognitive processes, educational process and the elaboration of human consciousness, the concept of schema, Henry Head’s notion of schema, Jerome Bruner’s notion of schema, Jean Piaget’s notion of schema, etc.
15h (T), 90h (P); C

PSY 405  Clinical Psychology II  3 Credits
Historical perspective of clinical psychology, concept and scope of clinical assessment, objectives of clinical assessment, requirements of effective clinical assessment, stages of clinical assessment, clinical observation, clinical interview, psychological testing, psycho-physiological assessment, ethical issues in clinical assessment.
15h (T), 90h (P); C

PSY 406  Psychobiological Study of Behaviour  3 Credits
Human sexuality definition, components of sexuality, sexuality education, benefits of sexuality education, characteristics of sexually healthy person, anatomy and physiology of human reproductive system, sex roles and sex typing, theories of sex role development and gender differences, human sexuality and the media, law culture, religion and society.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 407</td>
<td>Health Psychology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Psychological approaches to illness, personality in relation to disease, psychological variable and disease process (hypertension, pain coronary, heart disease and other psychosomatic illnesses), stress and illness, coping with stress.</td>
<td></td>
</tr>
<tr>
<td>PSY 408</td>
<td>Social Perception</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Man’s knowledge of world around him, basic sensory processes, organization and differentiation of precepts, effects of culture, experience and personality on perception of physical and social world (laboratory exercises are required).</td>
<td></td>
</tr>
<tr>
<td>PSY 409</td>
<td>Psychological Aspects of Leadership</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>An overview of the nature, role and problems of leadership, survey and methods of study utilized to train select leaders.</td>
<td></td>
</tr>
<tr>
<td>PSY 410</td>
<td>Advanced Experimental Psychology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Application of the various psychological theories with statistical and research methods, in-depth laboratory analyses</td>
<td></td>
</tr>
<tr>
<td>PSY 411</td>
<td>Organizational Psychology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Application of the principles of social psychology to individual phenomena, application of the parameters of organizational effectiveness to case studies, profitability and morale, classical theories of organization, application of power interaction to industrial corporations and unions.</td>
<td></td>
</tr>
<tr>
<td>PSY 412</td>
<td>Psychology of Human Performance</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Application of psychological methods and principles of man-machine system, man’s capabilities and limitations, performance appraisal, research and problems.</td>
<td></td>
</tr>
<tr>
<td>PSY 413</td>
<td>Psychology of Vocational Behaviour</td>
<td>2</td>
</tr>
</tbody>
</table>
Definition of work related concepts, psychological aspects of work, factors that influence vocational behaviour, theories of occupational choice, Holland’s personality theory, Super’s developmental theory, Ginzberg’s process theory, chance theory, sociological theories, need theory.

30h (T); E

**PSY 414  Psychology of Social Change**  2 Credits
Basic concepts in change, introduction to and analysis of social problems, strategies for change, actors in changes process, ethics in social change.
30h (T); E

**PSY 415  Consumer Behaviour**  2 Credits
Introduction to the nature of consumer behaviour, individual factors, motivation and personality theories, social factors, cultural factors, economic factors, political factors and changes in their environment.
30h (T); E

**PSY 416  Current Issues in Psychology**  2 Credits
30h (T); E

**PSY 499  Project**  6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.
270h (P); C
### SUMMARY

#### 100 LEVEL

**Compulsory Courses:**
- PSY 101 (3), PSY 102 (3), PSY 103 (3), PSY 104 (3), PSY 105 (3), PSY 106 (3)
  \[= 18 \text{ Credits}\]

**Required Courses:**
- ECN 101 (3), SOC 101 (2), SOC 104 (2), SOC 106 (2), POS 111 (3), GNS 111 (2), GNS 112 (2)
  \[= 19 \text{ Credits}\]

**Total:** \[= 37 \text{ Credits}\]

#### 200 LEVEL

**Compulsory Courses:**
- PSY 201 (2), PSY 202 (2), PSY 203 (2), PSY 204 (2), PSY 205 (2), PSY 206 (2), PSY 207 (2), PSY 208 (2), PSY 209 (2), PSY 210 (2), PSY 211 (2), PSY 212 (2)
  \[= 24 \text{ Credits}\]

**Required Courses:**
- SOC 209 (2), SOC 217 (2), ECN 216 (2), POS 221 (2), GNS 211 (2), GNS 212 (2)
  \[= 12 \text{ Credits}\]

**Total:** \[= 36 \text{ Credits}\]

**Direct Entry Student:**
- GNS 111 (2), 112 (2)
  \[= 4 \text{ Credits}\]

#### 300 LEVEL

**Compulsory Courses:**
- PSY 301 (2), PSY 302 (2), PSY 303 (2), PSY 304 (2), PSY 305 (2), PSY 306 (2), PSY 307 (2), PSY 308 (2), PSY 309 (2), PSY 310 (2)
  \[= 20 \text{ Credits}\]

**Required Courses:**
- GPY 301 (2), GSE 301 (3), GNS 311 (2)
  \[= 7 \text{ Credits}\]
Electives Courses:  At least 12 Credits from the following: PSY 311 (2), PSY 312 (2), (2), PSY 314 (2), PSY 315 (2), PSY 316 (2), PSY 317 (2),
                PSY 318 (2), PSY 319 (2), PSY 320 (2), PSY 321 (2), PSY 322 (2),
                PSY 323 (2), PSY 324 (2), PSY 325 (2) = 12 Credits
                Total = 39 Credits

400 LEVEL

Compulsory Courses:  PSY 401 (3), PSY 402 (3), PSY 403 (3), PSY 404 (3), PSY 405 (3),
                       (3), PSY 499 (6) = 24 Credits

Electives Courses:  At least 12 Credits from the following: PSY 407 (2), PSY 408 (2), (2), PSY 410 (2), PSY 411 (2), PSY 412 (2), PSY 413 (2),
                    PSY 414 (2), PSY 415 (2), PSY 416 (2) = 12 Credits
                    Total = 36 Credits

Graduation Requirements

UTME = 148 Credits
DE=115 Credits
DEPARTMENT OF SOCIAL WORK

Course Description

B.Sc. Social Work

SOW 101  Principles of Social Work                      3 Credits
Principles and practice of social work: client self-determination, client voluntary engagement, non-judgemental approach in casework relations, individualisation of clients and challenges, preservation of clients privacy and confidentiality, rights of clients to the knowledge and information on casework encounter.
45h (T); C

SOW 102  Group Dynamics and Processes                       2 Credits
30h (T); C

SOW 103  Introduction to Social Welfare Agencies                                       2 Credits
Meaning, structure and functions of social welfare agencies. Types and location of social welfare agencies in Nigeria, Legal framework for the establishment of Agencies, and Agency-Client relation in formal social work organisations. Evaluation of social work agencies in civil and military regimes.
30h (T); C

SOW 104  Introduction to Social Care and Needs Assessment                        3 Credits
45h (T); C

SOW 105  Introduction to Social Casework                          2 Credits
30h (T); C

SOW 106  Working with Clients in Health and Social Care                3 Credits
Caring relationship and roles, response to care. Types of support, Effective and anti-discriminatory interaction, Building self-caring using the five value areas and ethics.

45h (T); C

SOW 107  **Introduction to Communication and Interpersonal Relations**   2 Credits
Developing communication skills. The importance of communication. Communication and effective caring skills. The act and art of listening. Non-verbal communication and body language. Reflective listening and silence. Communicating respect for others. Observing and understanding other people. Obstacles to effective communication.

30h (T); C

SOW 108  **Social Networking and Collaborative Processes**   2 Credits
Conceptualising conflict, competition and confrontation as social behaviour. Need for co-operation and collaboration in social work. Interdependence and inter-relationship in system of care. Management of overlapping functions and duplicity. Modalities for networking and collaboration in social work.

30h (T); C

SOW 109  **Code of Ethics and Best Practices in Social Work**   2 Credits
Social Workers’ ethical responsibilities to clients. Ethical responsibilities to colleagues and in practice settings. Ethical responsibilities as professionals and to the Social Work Profession. Ethical responsibilities to the wider society. Personal and professional values.

30h (T); C

SOW 110  **Introduction To Developmental Psychology**   3 Credits

45h (T); R

SOW 111  **Introduction to Psychology**   3 Credits
Definition and meaning of psychology. History and development of psychology as a discipline. Focal areas of psychology. Motivation and self actualisation. Behaviour modification and change.

45h (T); C

SOW 122  **Introduction to Family Law In Nigeria**   2 Credits
General introduction to family law, Nature of the family law, Sources of Nigerian Family law. Law of succession in Nigeria
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOW 201</td>
<td>Introduction To Group Work</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>The meaning and types of group clients, Group membership roles, Leadership development and Management of deviant groups – gangs, mobs, drug addicts etc. Initiating group work. Positive team building and collaboration. Mentoring groups for growth and development.</td>
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<tr>
<td>SOW 202</td>
<td>Socio-Legal Framework for Social Work</td>
<td>2</td>
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<tr>
<td>SOW 203</td>
<td>Introduction to Rehabilitation Processes</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Concepts of social functioning and empowerment. The Rs of Rehabilitation: reformation, reconstruction and restoration. Social factors as social exclusions. Rehabilitation planning needs and resources. Evaluation of re-integration and empowerment. Social agencies and rehabilitation effectiveness.</td>
<td></td>
</tr>
<tr>
<td>SOW 204</td>
<td>Modalities and Principles of Social Work Intervention</td>
<td>2</td>
</tr>
<tr>
<td>SOW 205</td>
<td>Social Processes and Social Work</td>
<td>2</td>
</tr>
<tr>
<td>SOW 206</td>
<td>Fields and Application of Social Work</td>
<td>2</td>
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<td></td>
<td>Checklist for the practice of social work. Highlight of different fields of social work. The process of social work generalist practice micro/mezzo and macro practice of social work. Highlight of employment settings for social workers by field of practice.</td>
<td></td>
</tr>
<tr>
<td>SOW 207</td>
<td>Introduction To Social Statistics</td>
<td>2</td>
</tr>
</tbody>
</table>
Definition of basic statistical concepts: statistic, estimate, parameter, population, variables etc. Data collection and transcription to tables. Distinction between descriptive and inferential statistics. Data presentation in quantitative and qualitative studies. Statistics of social services: housing, education, employment etc.

30h (T); C

**SOW 208**  
**Empowerment and Human Diversity**  
2 Credits  

30h (T); R

**SOW 209**  
**Social Work in Cross-Cultural Settings**  
2 Credits  
Identification of similarities and differences in people, groups and culture. Empathetic study of foreign cultures. Setting up best practices in social work practice in simple and homogenous societies. Adoption of ethnographic and anthropological principles for social work practice and service delivery.

30h (T); C

**SOW 210**  
**Introduction to Critical Thinking and Emotional Intelligence**  
2 Credits  

30h (T); R

**SOW 211**  
**Management of Disadvantaged and Challenged Groups**  
2 Credits  
Defining developmental and physical challenges. Cerebral palsy, hearing impairment, visual impairment, multiple disabilities, etc. Ethical implications for social work practices with challenged clients. Treatment, legislative and community approach to management of the disadvantaged. Creating linkages with the community for the client.

30h (T); R

**SOW 212**  
**Deviance and Planned-Change Processes**  
3 Credits  

45h (T); R

**SOW 214**  
**Advocacy and Service Delivery**  
2 Credits
Assessment of the impact of social policy on the quality of life of citizens. Reconciliation of people’s needs with programme goals. Assessment of the extent to which benefits address needs. Modalities for service payment and delivery styles. Identification of the approaches to policy analysis.

30h (T); E

**SOW 216**  
**Religious and Spiritual Intervention in Social Work**  
3 Credits  
Professional application of the awareness of spiritual and religious approaches to vulnerable people in situation of pain and crisis.  
45h (T); R

**SOC 215**  
**Research Method in Child Labour**  
2 Credits  
Conceptual overview of Child labour, Children as subject of research, Different research methods in child labour- ethnographic, observations, interviews projective techniques, FGD, and other participatory approaches; Issues of ethics in child labour research and practical assignments.  
30h (T); E

**SOC 218**  
**Introduction to Social Psychology**  
3 Credits  
Meaning and focus of social psychology. Social psychology and sociology. Social psychology and human values. The self in a social world: self concept, self efficacy control. Self esteem motivation.  
45h (T); R

**SOW 301**  
**Theories of Social Work**  
3 Credits  
Theoretical perspectives on psychological social and process base for social work. The five principles for generic social work and Social structural theories.  
45h (T); C

**SOW 302**  
**Research Method in Social Work I**  
3 Credits  
Methods of data collection, sampling methods and type of data. Observation and analytical skills on documents. Methods of report writing.  
45h (T); C

**SOW 303**  
**Research Methods in Social Work II**  
3 Credits  
Definition, purposes and types of research. Social case work method for data generation. Relationship between research topic, problem, objectives and literature.  
45h (T); C

**SOW 304**  
**Social Work In Mental Health**  
3 Credits
Mental health, mental illness and social roles. Casework encounter clients who have mental health problems. Role of social workers in mental health. Cultural competence in mental health. Barriers to receiving mental health services.

45h (T); R

**SOW 305** History and Development of Social Work 2 Credits

The focus will be on the development of the social work progression. Social work in 1950s, social work in the 1960 to early 1980 and social work today.

30h (T); C

**SOW 306** Social Work and Services for Children and the Youths 2 Credits

The scope of the course consists among others the steps in developing creative employment for youths through macro practice, prevention of school violence, teenage sexual activity, pregnancy and parenting issues, provision of information about sex.

30h (T); C

**SOW 307** Social Work and Services for the Family 2 Credits


30h (T); C

**SOW 308** Community Organisation For Development 3 Credits

Organisation and community setting in social work practices. The special circumstances of social work practice in rural communities. Locating the strengths inherent in communities. Inter-agency co-operation for community services. Using the generalist approach in community organisation and development.

45h (T); R

**SOW 309** Gerontology and Services for the Elderly 2 Credits

International perspective – “Global Graying”. Common problems facing elderly people. Demographic characteristics of the elderly population. Contexts for social work practice with the elderly. Empowerment for the diverse population of elderly people.

30h (T); C

**SOW 310** Social Problems and Social Reconstruction 2 Credits

SOW 311  Social Work and Services for the Challenged  2 Credits
Defining developmental disabilities/challenges. Services to people with mobility, developmental and cognitive challenges. Supportive services in aid of individual, physical, intellectual and emotional development. Mobilisation of resources for empowerment of the challenged.
30h (T); R

SOW 312  Social Work and Services For the Military and Related Agencies  2 Credits
Understanding the peculiarities of military and security services. Services that are related to housing, deployment, welfare of troops in peace support operations. Services to dependents and next of kins of fallen personnel. Rehabilitation of demobilised soldiers. Health care for the wounded and amputees.
30h (T); R

SOW 313  Social Work and Services in Healthcare  2 Credits
30h (T); R

SOW 314  Social Work In Occupations and Industry  2 Credits
30h (T); R

SOW 316  Internship in Social Work Agencies  2 Credits
Working in an organisational structure under supervision. Trainees’ role in internship-counselling, case management, resource mobilisation etc. Accepting responsibilities and proper docUTMEntation. Promoting agencies profile through compliance to code of ethics.
30h (T); C

SOW 401  Management of Intra- And Inter-Communal Conflicts  3 Credits
Social Workers as community mediators. Understanding value, issues, interests, positions etc that generate conflicts within and between communities. Negotiating and building confidence for mediating among stakeholders. Utilisation of community resources and power base in management of conflict. Social workers’ neutrality in communal conflict.  
45h (T); C

**SOW 402 Social Work in War, Refugee Camps and Emergency**  
45h (T); C

**SOW 403 Administration of Social Agencies**  
45h (T); C

**SOW 404 Social Mediation In Community Conflicts**  
45h (T); C

**SOW 405 Social Work and Services in Criminal Justice System**  
Introduction to crime and criminal justice. Criminal justice setting and forensic social work social work in adult and juvenile corrections. Role of social workers in rehabilitation process.  
30h (T); C

**SOW 406 Social Work and Globalisation**  
30h (T); E

**SOW 407 Social Work and Services In Schools**  
30h (T); R
SOW 408 Principles of Management and Services Delivery
ConsUTMErism and social work. The balance of power and the consUTMEr. A model of service provision. Motivations for service provision. The weakness of consUTMErs. Best practice in service delivery.
30h (T); E

SOW 409 Policies and Programme to Combat Poverty in Nigeria
30h (T); R

SOW 410 Sociology of Religion
45h (T); E

SOW 411 Social Practicum Placement
Selection of appropriate agency for practice experience and mentoring. Schedule of placement in social agencies. Loggin and docUTMEntation of activities. Evaluation and assessment by assessors.
45h (P); C

SOW 412 Social Security Management
30h (T); E

SOW 414 Social Work and Information Technology
45h (T); E

SOW 416 Social Work Practicum Placement II
30h (P); C

SOW 499  Project  6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project.

270h (T); C

**SUMMARY**

### 100 LEVEL

**Compulsory Courses:**
- SOW 101(3), 102(2), 103(2), 104(3), 105(2), 106(3), 107(2)
- 108(2), 109(2), 110(3), SOC 101(2)

**Required Courses:**
- SOW 111(3), RCR 105(2), 106(2), GNS 111(2), 112(2)

**Elective Courses:**
- SOW 122(2)

Total = 39 Credits

### 200 LEVEL

**Compulsory Courses:**
- SOW 201(2), 203(2), 205(2), 207(2), 209(2)

**Required Courses:**
- SOW 202(2), 204(2) 206(2) 208(2) 210(2), 211(2), 212(3), 215 (3), 218(3), CSC227 (2), SOC 217 (2), ECN 216 (2), GNS 211(2), 212(2)

**Elective Courses:**
- At least 2 Credits from the following:
  - SOW 214(2), SOC 215(2)

Total = 43 Credits

**Direct Entry Students:**
- GNS 111 (2), 112 (2)

Total = 4 Credits

### 300 LEVEL

**Compulsory Courses:**
- SOW 301(3), 302(3), 303(3) 305(2), 307(2), 309(2), 316(2)

**Required Courses:**
- SOW 304(3), 306(3) 308(3), 310(2), 311(2) 312(2) 313(2), 314(2),
- GPE 301 (2), GSE 301(2), GNS 311(2)

Total = 25 Credits
400 LEVEL

Compulsory Courses: SOW 401(3), 402(3), 403(3), 404(3), 405(2), 411(3), 499(5) = 22 Credits

Required Courses: SOW 407(2), 409(2), 416(2), 499(6) = 12 Credits

Elective Courses: At least 6 Credits from the following:
SOW 406(2), 408(2), 410(3), 412(2), 414 (3) = 6 Credits

Total = 40 Credits

Graduation Requirements:
UTME = 164 CREDITS
DE = 129 CREDITS
### Course Description

#### B.Sc. Sociology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology I</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Subject matter of sociology; the</td>
<td></td>
</tr>
<tr>
<td></td>
<td>problem of social order; sociology</td>
<td></td>
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<tr>
<td></td>
<td>and other related disciplines;</td>
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<tr>
<td></td>
<td>culture and socialisation; agents</td>
<td></td>
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<tr>
<td></td>
<td>of socialisation; basic concepts</td>
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<tr>
<td></td>
<td>in sociology; community, culture</td>
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<td></td>
<td>and society, norms, folkways,</td>
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<td></td>
<td>laws, mores, deviance, crime and</td>
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<td>sanctions; social facts and</td>
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<td></td>
<td>psychological facts; social</td>
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<td></td>
<td>groups; small and large groups;</td>
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<tr>
<td></td>
<td>job prospects in sociology.</td>
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<td></td>
<td>30h (T); C</td>
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</tbody>
</table>

| SOC 102     | Introduction to Sociology II      | 2       |
|             | Elements of social structure;     |         |
|             | social roles and statuses; social |         |
|             | structure in global perspective;  |         |
|             | social network and technology;    |         |
|             | introduction to the founding      |         |
|             | fathers of Sociology and their    |         |
|             | contributions; organization;      |         |
|             | power and authority; major        |         |
|             | theoretical perspectives in       |         |
|             | sociology; introduction to micro- |         |
|             | macro sociology or structure and  |         |
|             | agency debate.                    |         |
|             | 30h (T); C                        |         |

| SOC 103     | Social Anthropology               | 2       |
|             | Introduction to anthropology and  |         |
|             | social anthropology; anthropology |         |
|             | and related disciplines; theorizing|         |
|             | the evolution of man; historical, |         |
|             | theoretical and methodological    |         |
|             | perspectives in social            |         |
|             | anthropology; culture, society,   |         |
|             | kinship and marriage; descent     |         |
|             | grouping; socio-political and     |         |
|             | economic systems in ancient and   |         |
|             | modern societies.                 |         |
|             | 30h (T); C                        |         |

| SOC 104     | Nigerian Heritage                | 2       |
|             | Culture versus heritage; tangible|         |
|             | and intangible heritage; symbols |         |
|             | of heritage peculiar to major    |         |
|             | ethnic groups in Nigeria;        |         |
|             | historical and sociological study|         |
|             | of the ancient and contemporary  |         |
|             | Nigerian civilisations: the NOK, |         |
|             | Hausa-Fulani; Yoruba-Ife and     |         |
|             | Benin-Edo etc; the importance of |         |
|             | Nigerian heritage; impact of     |         |
|             | civilization on heritage in      |         |
|             | Nigeria; conserving heritage for  |         |
|             | sustainable development; global   |         |
|             | declarations on heritage         |         |
|             | preservation.                    |         |
|             | 30h (T); C                        |         |

<p>| SOC 105     | Introduction to African Society    | 2       |
|             | and Culture I                     |         |
|             | Role Archaeology in understanding  |         |
|             | African cultural heritage;         |         |
|             | archaeological, historical and the |         |
|             | ethnographic evidence;             |         |
|             | definition of African cultural     |         |
|             | heritage; understanding the past;  |         |
|             | early man; cultural diversity in   |         |
|             | Africa; development of farming and |         |
|             | sedentary life-styles; growth of   |         |
|             | cities; arts and crafts, early     |         |
|             | trade patterns; traditional        |         |
|             | institutions, cultural practices   |         |
|             | and heritage resources; clanship   |         |
|             | and descent among specified       |         |
|             | cultures.                         |         |
|             | 30h (T); C                        |         |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 106</td>
<td>Introduction to African Society and Culture II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Socio-political and economic systems in Africa;</td>
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<tr>
<td></td>
<td>the Buganda kingdom, the Nuer, the Ashantis, the</td>
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<td></td>
<td>Akandes; Stratified politics in Burundi and</td>
<td></td>
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<td></td>
<td>Rwanda; religions in Africa; Syncretism and</td>
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<td></td>
<td>Charismatism in African religions; Africa and</td>
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<td></td>
<td>witchcraft; Afrocentric and Eurocentric views on</td>
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<td></td>
<td>issues relating to culture and belief systems in</td>
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<td>Africa; Africa and knowledge system; social</td>
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<tr>
<td></td>
<td>production of knowledge.</td>
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<td>30h (T); C</td>
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<tr>
<td>SOC 107</td>
<td>Introduction to Psychology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Subject matter of psychology; basic concepts and</td>
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<td></td>
<td>methods in psychology; psychology and other</td>
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<tr>
<td></td>
<td>social sciences; introduction to personality</td>
<td></td>
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<tr>
<td></td>
<td>psychology; the person like all other persons,</td>
<td></td>
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<tr>
<td></td>
<td>like some other persons and like no other</td>
<td></td>
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<tr>
<td></td>
<td>persons; socialisation and personality</td>
<td></td>
</tr>
<tr>
<td></td>
<td>development; psychoanalytic theory of human</td>
<td></td>
</tr>
<tr>
<td></td>
<td>behaviour; socio-biology and human nature;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>theories of learning, motivation and perception;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>application of psychology to everyday life.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30h (T); C</td>
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<tr>
<td>SOC 108</td>
<td>Elements of Scientific Thought</td>
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<td></td>
<td>Meaning of science; classification of science;</td>
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<td>history of scientific thought; scientific</td>
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<td>knowledge and the goal of scientific research;</td>
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<td>characteristics of science; inductive and</td>
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<td></td>
<td>deductive reasoning; theories versus models;</td>
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<td>hypothesis formulation; basics of sociological</td>
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<td>paradigms; philosophical dualism in sociology;</td>
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<td>research designs; social surveys, experiment</td>
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<td>etc; methods of research; hypothesis</td>
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<td>formulation; primary and secondary data;</td>
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<td>problem of science and research in Africa.</td>
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<tr>
<td>SOC 109</td>
<td>Basic Social Institutions</td>
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<td></td>
<td>Basic social institutions; their origin and</td>
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<td>attributes; treatment of basic social</td>
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<td>institutions: Kinship descent, marriage, family,</td>
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<td>political, religious and economic institutions;</td>
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<td>a discussion of their functions and</td>
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<td>inter-relatedness; essential theoretical</td>
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<td>orientation on basic social institutions of</td>
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<td>society; research methods in social</td>
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<td>institution; latent and manifest functions.</td>
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<td>SOC 110</td>
<td>Social Man in Human Society</td>
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<td>Man’s place in nature; anthropological</td>
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<td>consideration of man as a social being; man’s</td>
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<td>physical, psychological and social equipment</td>
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<td>for group living; the human community; essence</td>
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<td>of culture and civilization; rights, duties and</td>
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<td>rewards in community living; development and</td>
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<td>social development; theoretical orientations of</td>
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<td>social development; moral development of man in</td>
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<td>society; Socialization and anticipatory</td>
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<td>socialization among others.</td>
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<td>30h (T); C</td>
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<tr>
<td>SOC 201</td>
<td>History of Sociological Thought I</td>
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</table>
Nature and Scope of Social Theory; historical survey of the nature and development of social thought; origin and development of sociological thought; social forces and intellectual forces in development of sociology; introduction to masters of sociological thought: Comte, Marx, Weber, Pareto, Durkheim etc.

**SOC 202 History of Sociological Thought II**

The 18th century Enlightenment period and sociological thought; the French and Industrial Revolutions and sociological thought; developments of sociology in Germany, France, Britain, Italy, and America; theorizing in the 19th century; Herbert Spencer, George Simmel; Sigmund Freud; perspectives in sociological theorizing; positivism, structural functionalism, conflict theories; interpretive tradition, symbolic interactionism; the possibility of sociological thought to African reality, history and experience.

**SOC 203 Social Statistics**

Role of statistics in sociological research; the fear of statistics among sociology students; distinction between data and information; hypothesis formulation and testing; descriptive and inferential statistics.

**SOC 204 Introduction to Population Studies**

Meaning of population; nature of population growth; effects of growth and causes; history of World population Growth and Development; elements of Demography - Population Composition, Structure and Characteristics; theories of population; Fertility; Reproductive Health, Family Planning and HIV/AIDS; social mobility; mortality; migration; population Growth and Development in Nigeria.

**SOC 205 Social Change**

The inevitability of change in human society; meaning of social change; characteristics of social change; sources of social change; approaches to change; social change and family system; theories of social change; collective behaviour; social movements and social change; the concept of globalization; Pan Africanism and globalization; social change in Africa.

**SOC 206 Language in Society and Culture**

Conceptual meaning of language, language as a means of communication; verbal and nonverbal communication; relationship between human, society and culture; family as the first contact of language; human and animal languages; call system; social and
cultural functions of language; language and societal development; man as a prisoner of language (the Sapir-Whorf hypothesis); language problems of the new states; language policy;

30h (T); C

SOC 207 Foundations of Sociology 2 Credits
30h (T); C

SOC 208 Comparative Social Institutions 2 Credits
Social institutions in human society; nature and functions of social institutions; institutions in comparative perspective; marriage and family in traditional and modern African societies; world’s major religious institutions and modes of expression; a comparison of African traditional and modern religions; contrasting political systems; education: social and political uses; the media: social and political uses.
30h (T); C

SOC 209 Social Structure of Nigeria 2 Credits
Meaning of social structure; the Nigerian social structure; history of Nigeria; demographic changes in Nigeria: rural urban migration; political institution in transition: from military to civilian governments; the family in transition: traditional versus modern family; socialization in transition; formal and informal education; health institution; social stratification; social problems in Nigeria.
30h (T); C

SOC 210 Sociology of Mass Communication 2 Credits
Media as an agent of socialization; theoretical and practical debates regarding the role of the mass media; media businesses; media as information source and entertainment; impacts of the media, media audiences; major paradigms in mass communication processes; globalization, ICT and mass communication; the new media and the changing Nigerian society.
30h (T); E

SOC 211 Sociology of the Family 2 Credits
Kinship, marriage and the family; descent groups; types of family; theories of the family; fortes’ development cycle of domestic groups; social change and the family; parental authority; mate selection and the family; authority structure and interpersonal
relations in modern family; power and decision-making in modern family; violence in modern family; alternative lifestyles in modern societies and their implications on modern family structure.

30h (T); E

SOC 212  Gender Studies and Development 2 Credits
Important issues in gender studies; important concepts in gender studies; gender roles, gender division of labour, gender based violence, gender parity index; gender inequality; gender issues in Nigeria; gender and reproductive health problems in Nigeria; women and domestic violence; feminist perspectives in gender inequality; feminist movement in Nigeria.
30h (T); E

SOC 213  Sociology of Education 2 Credits
Concept of education; educational institutions as agents of socialization; education and cultural development in Africa; history and goals of education; traditional versus modern system of education; theory and research in sociology of education; education and inequality in Nigeria; race, ethnicity, and education; social class and education; gender and education; teaching as a profession in Nigeria; the state of education and educators in Nigeria; sociological theories of education.
30h (T); E

SOC 214  Issues in Child Rights in Nigeria 2 Credits
Introducing the concept of a child; child rights in Nigeria; psycho-social development of a child (Freud, Erickson); child labour and abuse; debates around circumcision; United Nations convention on the Rights of the child; demand and supply factors in child labour; theories of child labour (conflict, functionalist, strain theories etc).
30h (T); E

SOC 301  Social Research I 2 Credits
Meaning of social research; pure and applied research; method and methodology; basic concepts in social research; research process; hypotheses and propositions; method of problems versus method of topics; how to form researchable questions; research designs; methods of data collection; literature search, review and theoretical expositions; relationship between theory and research.
30h (T); C

SOC 302  Social Research II 2 Credits
Qualitative vs. quantitative research; ontological, epidemiological, philosophical and methodological issues; shades of research design: types of research tools, the concepts of validity and reliability; steps in social research; sampling techniques; writing an undergraduate project; research proposal; data analysis and discussion of findings; ethical issues in social research.
30h (T); C
SOC 303  Industrial Sociology  2 Credits
Issues in industrial sociology; history of industrialization; patterns of industrial relations in Nigeria; labour process; classical and contemporary perspectives in labour process; job satisfaction, human motivation and orientation to work; unionism and industrial conflicts; structures and management of trade unions; collective bargaining; elite theories and trade union management.
30h (T); C

SOC 304  Contemporary Social Problems  2 Credits
Sociology, order and social problems; personal vs. social problems; categories of social problems; conditions and characteristics of social problems; objective and subjective meanings of social problem; contemporary social problems; poverty, unemployment, religious/ethnic conflicts, drugs and crime, terrorism, sexual deviance, infectious diseases; theories of social problems.
30h (T); C

SOC 305  Sociology of Crime and Delinquency  2 Credits
30h (T); C

SOC 306  Medical Sociology  2 Credits
Rationale and scope of medical sociology; medical sociology and other health social sciences; social factors and human health; culture, health and illness; medical pluralism; personal and social determinants of health and illness; doctor–patient relationship; socio-cultural aspects of women’s health; the hospital as a social system; technology and the sociology of health care; traditional and modern medicines; theories in medical sociology.
30h (T); C

SOC 307  Social Movements  2 Credit
Social movements and the role of new media; movements across human history; abolition of slavery, Civil Right Movements, Movement for Gay Rights, Anti-AIDS Activism, Occupy Wall Street; globalization and social movements; movements in Nigeria; some specific theories of social movement.
30h (T); C

SOC 308  Political Sociology  2 Credits
Introduction to political sociology; scope of political sociology; power and authority; political culture and socialization; participation and the mass media; political ideologies; theories in political sociology; origin of the modern state in the European and African Contexts; political sociology in African context; nationalism, postcolonial politics, economic and power elites in Africa.
SOC 309  Rural Sociology  2 credits
Meaning of rural sociology; social organisation at community levels; historical overview of rural sociology; conceptual problems in rural sociology; basic structure of rural societies in Nigeria, settlement patterns, family arrangements, politics, religion, health, education, and economy; migration and rural communities in Africa; social change and rural development in Africa; social inequality and poverty in rural Africa; theories in rural sociology.

SOC 310  Inter-Group Relations  2 Credits
Nature and dynamic of inter-group transactions; plural societies; intergroup relations at local and international levels and consequences; the Israelis and Palestinians, Apartheid in South Africa, genocide, xenophobia, Hutu and Tutsi of Rwanda, the Fulani/herdsmen conflicts; power relations and social production of knowledge at global levels; sociological theories in intergroup relations.

SOC 311  Formal Organizations  2 Credits
Structural properties of organizations and consequences; formal and informal organizations; simple and complex organizations; interconnectedness between organizations; types of formal organization; formal organization and bureaucracy; influence and power structure; peculiarities of bureaucracy in Nigeria; gender, race and ethnicity in organizations; conflict, power and politics; theoretical issues in formal organization.

SOC 312  Social Stratification and Mobility  2 credits
Concepts of social stratification and mobility; social stratification and differentiation; origin and functions of social stratification; stratification and conflict; class, status and power; inequality by gender, sex and age; gender issues in informal sectors; racial and ethnic inequality; open and closed class system; social mobility; types and characteristics; social mobility in Nigeria; social stratification at world level.

SOC 313  Gerontology  2 credits
Meaning of gerontology; biology and psychology of growing old; aging and culture; transition and problems of aging; social isolation and aging; retirement; aging and health. Social support for the elderly; urbanization and the problem of aging; theories of aging; aging and disengagement, aging and activity, aging and inequality; aging, death and dying; social policy and the elderly in Nigeria.
SOC 314  Urban Sociology  
Definition of urban sociology; basic structure of urban life in Africa; politics and religion, economics and family, education and health; social changes: urban growth (rural-urban migrations); The development of the city; industrialization and urbanization; voluntary associations and their integrative functions; social problems in urban Nigeria; theoretical perspectives in urban sociology. 
30h (T); E

SOC 315  Sociology of Law  
Issues in sociology of law; law as a mechanism of social control and as a field of knowledge; law and society, traditional legal cultures; norms, mores, law and sanctions; significance of law in human society; law, social relations and social integration; conflict resolution and social control; issues of civil rights and power arrangement; gender and law; power and law; vulnerability, protection and human rights; sociological theories of law.
30h (T); E

SOC 316  Sociology of Religion  
Scope of sociology of religion; types of religious activity and modes of expression; religion and religiosity; the concept of ritual; religion in simple and complex societies; religious pluralism; sectarianism and patterns of conflict and accommodation; traditional and modern religions; secularization and religion; religious issues in Nigeria; common theories in sociology of religion.
30h (T); E

SOC 318  Human Resource Management  
Identification of human resources needed in an organization or department: knowledge, skills and concepts. Personality and motivation: manpower planning, leadership styles, HRM policies and practices, employer-employee management and recruitment strategies.
30h (T); E

SOC 401  Contemporary Sociological Theories I  
New developments in modern sociological thought; social forces and development of contemporary sociological thought. Connection between classical and contemporary sociological theories; evolution and neo-evolutionism; modern feminist sociological theories; structuralism and post-structuralism; interpretative tradition; the ideas of Michel Focault (knowledge, truth and power); structure versus agency debates; postmodernism and postmodern social theories.
30h (T); C

SOC 402  Contemporary Sociological Theories II  
2 Credits
Sociological theories and scientific explanations; philosophy of positivism and phenomenology; consensus and conflict approaches, the ideas of Habermas; historically-oriented Marxism; social construction of reality, ethnomethodology, symbolic interactionism, dramaturgical analysis and other ideas of Erving Goffman; exchange and rational choice theories; application of contemporary theories to African reality, history and culture.

30h (T); C

**SOC 403 Demographic Analysis**

Definition, nature and scope of demography. Sources, uses and limitations of population data; population census; sample surveys; vital registration; population registers; non-traditional sources of data; international sources of data; availability of population data in Sub-Sahara Africa; basic demographic methods; population growth; population composition; assumptions, types and functions of life table; conventional life table; introduction to migration analysis; population policy.

30h (T); C

**SOC 404 Regional Ethnography of Sub-Saharan Africa**

Meaning of Ethnography; the basic concepts in regional ethnography; ethnographic research; qualitative and quantitative methods in ethnography; relevance of ethnography in achieving sustainable development in Sub-Sahara Africa; human origin and early man; physical anthropology; archaeology; race and racism; cultural regions of African language; peoples and cultures of Africa; linguistics in Africa.

30h (T); C

**SOC 405 African Social Thought**

Social production of knowledge; the concept of academic imperialism; a survey of African social philosophy and thought; Ibn-Khaldun (the Muqadimah), Usman Dan Fodio (Foundation of Justice), Claude Ake; Walter Rodney, Leopold Senghor (The Concept of Negritude), Chinua Achebe (Things Fall Apart), Areoaye Oyebola (Black Man’s Dilemma), Akiwowo and sociology of knowledge etc; social science as academic imperialism.

30h (T); C

**SOC 406 Urbanization and Labour Migration**

Basic concepts in urbanization; forms and causes of urban growth in various part of the world; problems of African cities; characteristics and nature of Nigerian cities; labour migration studies; population movement in Africa; post-colonial trends in migration; migration theory and Classifications; internal migration systems in the developing countries; demographic perspectives of migration; cohort analysis of migration; African migration and regional disparities.

30h (T); C

**SOC 407 Sociology of Entrepreneurship**

2 Credits
Meaning, types and importance of entrepreneurship; evolution of entrepreneurship; pathways to entrepreneurial ventures; legal issues in entrepreneurship; entrepreneurial strategy and growth; the environment, economy and entrepreneurship; ethics, social responsibility and social entrepreneurship; indigenous vs. non-indigenous entrepreneurs in Nigeria; gender and entrepreneurship in Nigeria; theories of entrepreneurship and entrepreneurial behaviour.

30h (T); C

SOC 408 Sociology of Globalization 2 Credits
Definition of globalization; globalization and culture; globalization and international trade; globalization and labour; globalization and Nigerian labour law; globalization as a Blessing and Curse; Ritzer and the globalization of nothing; McDonalization of the world; North- South divides in globalization; Africa within the global; African culture and the threat of globalization; poverty, aids and trade; theories of globalization.

30h (T); C

SOC 409 Sociology of Development 2 Credits
Basic concepts in sociology of development; the Post-World War II international context and the origins of development; economic and social dimensions of development; major theories in sociology of development; political economy of international relations (inequality among nations in a globalized world); the New International Economic Order (NIEO) and implications of economic regionalization for global development; Africa and the rest of the world (BRICS).

30h (T); C

SOC 410 Models In Sociological Analysis 2 Credits
Meaning of Model as both a process and an action; model as a product and guide to research; types of Models; Characteristics of a good model; model building in Sociology; importance of model in sociological analysis; models and theories; classical sociological models; Marxian class model; Paretonian Elite Model; contemporary sociological models; relevance and applicability of classical and contemporary models.

30h (T); C

SOC 411 Comparative Health Care Delivery System 2 credits
Global perspective of health care delivery systems; practices, organization, accessibility and performance; medical pluralism; typology of medical system; politics and policies of health care system; capitalist, socialist and mixed-health systems; health and budgeting; comparative analysis of orthodox and non-orthodox medicine; health insurance schemes; health insurance policies in Africa; political economy of health; community engagement; health promotion and education.

30h (T); E

SOC 412 Environmental Sociology 2 Credits
Environmental problems and human populations; basic concepts in environmental sociology; human progress vs. ecological collapse; modern environmentalism; environment and public health, disease, global warming, flood, access to food, and water; migration, urbanization and the environment; technology and biodiversity; environmental resource management; mining and environmental degradation; traditional and modern methods of forest management; national security and global stability; theories in environmental sociology.

SOC 413  Military Sociology  2 credits
The military as a social institution; military and the society; military as a total institution; functions and organization of the military; the origins of modern military organization; the role of the military in diplomacy and internal relations; military culture; concepts of war and peace; theories of war and peace; the contemporary war system; the social effects of war; peace projects; peacekeeping organizations; the Nigerian military and international peacekeeping; the Nigerian military, insurgency and internal security; theories and methods in military sociology.

SOC 414  Sociology of Health and Illness Behaviour  2 Credits
Health, illness, and medicine from a sociological perspective; major sociological perspectives on health and illness; the influence of culture on health and illness behaviour as well as treatment; the conception/perception of mental illness across cultures; social causes of disease; theories of disease causation: germ theory and multi-causal models of disease causation.

SOC 415  Penology  2 Credits
Concept of penology; correctional concepts; cultural context of punishment and treatment of offenders; socialization and social control; computing crime statistics and correctional statistics; correctional populations and Staff; theories of deviance; sanctions; principles of punishment; Jails, detention and community corrections; the prison experience; correction of juvenile offenders; capital punishment.

SOC 416  Sociology of Youth  2 Credits
Basic concepts in sociology of youth; adolescence, young people or persons, teenagers and youth; societal construction of youth; transition to adulthood; youth in historical and societal contexts; education, work, gender and sexuality; peers, identity, politics, and youth culture; youth unrest; youth, political violence, revolution, insurgency/terrorism; youth, collective behaviour and social movements; youth and reproductive health issues; youth and crime; youth and drugs; youth and unemployment; youth and politics; theorizing youth unrest in Nigeria.
SOC 418  Sociology of Work  2 Credits
Nature of work and its centrality in the lives of human beings; history of industrial sociology and growth of formal organizations and bureaucracy; industrial revolution and growing division of labour; sociological theories of formal organization; management in formal organizations; industry and society; worker participation and self-management; worker alienation; the rise of trade unions (unionization) in Nigeria; gender and work; wage and salary in Nigeria; labour process theories; 30h (T); E

SOC 499  Research Project  6 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an area approved by the Department, culminating in the submission of a project. 270 (T); C
SUMMARY

100 Level

Compulsory Courses: SOC 101 (2), SOC 102 (2), SOC 103 (2), SOC 104 (2), SOC 105 (2), (2), SOC 107 (2), SOC 108 (2), SOC 109 (2) SOC 110 (2)
= 20 Credits

Required Courses: SOW 101 (2), POS 111 (3), POS 114 (3), HIS 101 (3), HIS 122 (3), (2), GNS 112 (2)
= 18 Credits
Total = 38 Credits

200 Level

Compulsory Courses: SOC 201 (2), SOC 202 (2), SOC 203 (2), SOC 204 (2), SOC 205 (2), (2), SOC 207 (2), SOC 208 (2), SOC 209 (2)
= 18 Credits

Required Courses: ECN 216 (2); PSY 205 (2), POS 211 (2), POS 212 (2), GNS 211 (2), (2), SOC 217 (2), CSC 227 (2)
= 16 Credits

Elective Courses: At Least 4 Credits From:
SOC 210 (2), SOC 211 (2), SOC 212 (2), SOC 213 (2), SOC 214 (2)
= 4 Credits
Total = 38 Credits

300 Level

Compulsory Courses: SOC 301 (2), SOC 302 (2), SOC 303 (2), SOC 304 (2), SOC 305 (2), (2), SOC 307 (2), SOC 308 (2), SOC 309 (2) SOC 310 (2),
= 24 Credits

Required Courses: GPE 301 (2), GNS 311 (2), GSE 301 (3) POS 315 (2), POS 312 (2)
= 11 Credits

Elective Courses: At Least 4 Credits From:
SOC 313 (2), SOC 314 (2), SOC 315 (2), SOC 316 (2), SOC 318 (2)
= 4 Credits
Total = 39 Credits
400 Level

Compulsory Courses:
SOC 401 (2), SOC 402 (2), SOC 403 (2), SOC 404 (2), SOC 405 (2),
SOC 406 (2), SOC 407 (2), SOC 408 (2), SOC 409 (2), SOC 410 (2)
SOC 412 (2), SOC 499 (6)
= 28 Credits

Elective Courses: At Least 9 Credits From:
SOC 4011 (2), SOC 413 (2), SOC 414 (2), SOC 415 (2),
SOC 416 (2), SOC 418 (2)
= 4 Credits

Total = 32 Credits

Graduation Requirements:
UTME = 147
DE = 108

FACULTY OF VETERINARY MEDICINE

DEAN'S OFFICE

S.F. Ambali DVM, M.Sc Ph.D. (Zaria) Professor & Dean
J.O. Aiyedun DVM, M.PVM, Ph.D.(Ibadan) Lecturer I
A. A. Ojibara B.Sc. (Kano), MBA(Ilorin) Faculty Officer

DEPARTMENT OF VETERINARY ANATOMY

S.O. Salami DVM, M.Sc. Ph.D. (Zaria) Professor & Ag. Head
Z. Jaji DVM; MV.Sc.(Maiduguri) Lecturer I
Esther S. Kigir DVM, MV.Sc. (Maiduguri) Lecturer I
R. A. Adeyeye AIMLT, FIMLT; M.Sc. Job: PGDM(Bauchi) Asst. Chief Technology

DEPARTMENT OF VETERINARY MEDICINE
<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>S.A. Ameen</td>
<td>DVM, M.Sc., Ph.D. (Ibadan)</td>
<td>Senior Lecturer &amp; Ag. Head</td>
</tr>
<tr>
<td>A. G. Ambali</td>
<td>DVM (ABU); MV.Sc. Ph.D. (Liverpool)</td>
<td>Professor</td>
</tr>
<tr>
<td>M. Shittu</td>
<td>DVM,(ABU); MV.Sc, (Reading, England)</td>
<td>Snr. Research Fellow</td>
</tr>
<tr>
<td>N. Furo</td>
<td>DVM, M.Sc. (Maiduguri)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>Deborah A. Adah</td>
<td>DVM, M.Sc. (Zaria)</td>
<td>Lecturer I</td>
</tr>
<tr>
<td>Y. A. Baba</td>
<td>DVM, (Zaria)</td>
<td>Lecturer II</td>
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**DEPARTMENT OF VETERINARY MICROBIOLOGY**

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<th>Name</th>
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<tr>
<td>A. E. Itodo</td>
<td>DVM, MSc. Ph.D (Zaria)</td>
<td>Reader &amp; Head</td>
</tr>
<tr>
<td>M. A. Raji</td>
<td>DVM, MSc. (ABU); Ph.D (SUA)</td>
<td>Professor</td>
</tr>
<tr>
<td>A.I. Raufu</td>
<td>DVM (Ibadan) MSc; Ph.D (Maiduguri)</td>
<td>Snr. Lecturer</td>
</tr>
<tr>
<td>O. B. Daodu</td>
<td>DVM, M.Sc. (Ibadan)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>F.S. Oladunni</td>
<td>DVM (Abeokuta)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>O. A. Ahmed</td>
<td>DVM (Maiduguri)</td>
<td>Lecturer II</td>
</tr>
<tr>
<td>Hafsat A.S. Abdulraham</td>
<td>HND</td>
<td>Technologist II</td>
</tr>
<tr>
<td>Sarah O. Ajiboye</td>
<td>HND</td>
<td>Technologist II</td>
</tr>
<tr>
<td>Hafsat M. Abdullahi</td>
<td>HND</td>
<td>Technologist II</td>
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**DEPARTMENT OF VETERINARY PARASITOLOGY AND ENTOMOLOGY**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>J.P. Fabiyi</td>
<td>BSc, MSc (ABU), PhD (Townsville)</td>
<td>Professor &amp; Head</td>
</tr>
<tr>
<td>M.I. Ahmed</td>
<td>DVM (Maiduguri), MSc (Zaria), PhD (Maiduguri)</td>
<td>Professor</td>
</tr>
</tbody>
</table>
DEPARTMENT OF VETERINARY PATHOLOGY

O.O. Oduye  DVM (Glasgow), M.Sc (London), Ph.D (Ibadan)  Professor & Head
A. Mohammed  DVM, MSc. (Zaria)  Lecturer I
Jemilat A. Atata  DVM (Zaria)  Lecturer II
M. Bolaji  B.Sc. (Ilorin); AMLS  Technologist II
A. A. Adegboyede  B.Sc. (Ilorin) AMLS  Technologist II

DEPARTMENT OF VETERINARY PHARMACOLOGY AND TOXICOLOGY

K. T. Biobaku  DVM, MSc., Ph. D. (Sokoto)  Snr. Lecturer & Ag. Head
S.F. Ambali  DVM; MSc; Ph.D (Zaria)  Professor
G. J. Akorede  DVM (Maiduguri)  Lecturer II
R. Suleiman  AD. Dipl., AIST (London), AMPSN  Chief Technologist

DEPARTMENT OF VETERINARY PHYSIOLOGY AND BIOCHEMISTRY

Olabisi.M. Azeez  DVM (Ibadan); MSc. Ph.D(Lagos)  Snr.Lecturer & Ag Head
Okediran  DVM (Ibadan) M.Sc. Ph.D (FUNAAB)  Snr. Lecturer
A.S. Adah  DVM, MSc. (Zaria)  Lecturer I
DEPARTMENT OF VETERINARY PUBLIC HEALTH AND PREVENTIVE MEDICINE

S. Nuru  BV.Sc. (Glasgow); Ph.D. (ABU)  Professor
J.O. Aiyedun  DVM; MPVM., Ph.D. (Ibadan)  Lecturer I
L.I. Ghali-Mohammed  DVM (ABU), MPH (Ilorin)  Lecturer I
I. A. Odetokun  DVM, M.Sc. (Ibadan)  Lecturer I
O. O. Oludairo  DVM, (Ibadan); M.Sc. (ABU)  Lecturer I
Nusirat Elelu  DVM (Maiduguri); M.P.H. (ABU)  Lecturer I
Kaltume M. Mohammed  DVM (Maiduguri)  Lecturer II
O. O. Akintola  B.Sc. (Maiduguri), ANIST  Chief Technologist
Sikirat O. Akande  HND  Technologist II

DEPARTMENT OF THERIOGENOLOGY AND PRODUCTION

E.O. Oyedipe  DVM ABU), MSc (Minessota), Ph.D (ABU)  Professor & Head
O. O. Oni  DVM (Ibadan) M.Sc. Ph.D (ABU)  Professor
A. O. Olatunde  DVM (ABU) MPVM (Ibadan)  Lecturer I
L. O. Raji  DVM, M.Sc. (Ibadan)  Lecturer I
D. Iliyasu  DVM, (Maiduguri) M.Sc. (ABU)  Lecturer I
VETERINARY TEACHING HOSPITAL

E. O. Oyedipe  DVM (Zaria); M.Sc. (Minessota); Ph.D. (Zaria)  Professor & Director
G. B. Atoyebi,  DVM (Zaria); MV.Sc (Liverpool)  Snr. Registrar II
F.R. Olowoleni  DVM (Nsukka)  Snr. Registrar I
R. A. Obalowu  DVM (Zaria)  Snr. Registrar II
Rashidat B. Balogun  DVM (Zaria)  Snr. Registrar II
Foluke T. Olusanmi  DVM (Sokoto)  Registrar
H. O. Jegede  DVM (Zaria)  Registrar
A. A. Shafi  HND  Technologist II

Course Description

FVM 298  Veterinary Field Attachment I  3 Credits
A long vacation field practice of six weeks duration in a farm. Inspection visits will be conducted to such places by the academic staff of relevant departments to assess students’ participation.
135h (P); C

FVM 398  Veterinary Field Attachment II  3 Credits
A long vacation field practices of six weeks duration in diagnostic laboratories. Inspection visits will be conducted to such places by the academic staff of relevant departments to assess students’ participation.
135h (P); C

FVM 498  Veterinary Field Attachment III  3 Credits
A long vacation field practices of six weeks duration. In an abattoir and control posts. Inspection visits will be conducted to such places by the academic staff of relevant departments to assess students’ participation.

135h (P); C

FVM 598 Veterinary Field Attachment IV 3 Credits
A long vacation field practices of six weeks duration in Clinics and Veterinary Teaching Hospitals. Inspection visits will be conducted to such places by the academic staff of relevant departments to assess students’ participation.

135h (P); C

FVM 699* Project 4 Credits
Each student under the guidance of an approved supervisor is required to conduct research in an approved area by the department, culminating in the submission of a project. 180h (P); C

♥ = to run for both semesters (2 credits each)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>VAN 101</td>
<td>Microscopy (practical)</td>
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<tr>
<td></td>
<td>General introduction of different types of microscope</td>
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<td></td>
<td>parts and their uses. Principle of microscopic</td>
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<td>techniques and histological section preparation and</td>
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<td>study.</td>
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<td>45h (P); C</td>
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<tr>
<td>VAN 102</td>
<td>Introductory Veterinary Anatomy</td>
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<tr>
<td></td>
<td>General introduction to veterinary Anatomy. Definition</td>
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<tr>
<td></td>
<td>of anatomical terms and terminologies. Description of</td>
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<td></td>
<td>various branches of veterinary Anatomy.</td>
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<td>C</td>
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<tr>
<td>VAN 104</td>
<td>Animal Cell Biology</td>
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<tr>
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<td>Introduction to animal cell structure, cellular</td>
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<td>components and functions, differences between</td>
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<tr>
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<td>eukaryotic and prokaryotic cells. Description of cell</td>
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<td>organelles and their structures.</td>
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<td>45h (P);</td>
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<tr>
<td>VAN 201</td>
<td>Veterinary Gross Anatomy I: Osteology, Syndesmology</td>
<td>3</td>
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<tr>
<td></td>
<td>and Myology</td>
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<td></td>
<td>General and comparative description of the osteology,</td>
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<td>syndesmology and Myology of Domestic Animals.</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>VAN 202</td>
<td>Veterinary Gross Anatomy III: Neuroanatomy, Endocrine</td>
<td>3</td>
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<tr>
<td></td>
<td>and Special Senses.</td>
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<td></td>
<td>General and comparative description of the nervous</td>
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<td></td>
<td>and endocrine systems, as well as the special sense</td>
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<td>organs of Domestic Animals.</td>
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<td>30h(T), 45(P); C</td>
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<tr>
<td>VAN 203</td>
<td>Avian Anatomy</td>
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<tr>
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<td>General studies of the bones, Structure and</td>
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<td></td>
<td>classification of bones, muscles, respiratory, digestive</td>
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<td>and reproductive systems of the chicken. Description</td>
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<td>of comparative differences with the other domestic</td>
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<td>birds.</td>
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<td>VAN 204</td>
<td>Introductory Embryology</td>
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<td>General Introduction to embryology as a branch of</td>
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<td>anatomy, description and definitions of terms and</td>
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<td>terminologies in embryology, description and</td>
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<td>explanation of laws and theories that led to the</td>
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<td>development of embryology.</td>
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<tr>
<td>VAN 205</td>
<td>Gross Anatomy II: Digestive, Angiology, Respiratory and Urogenital 3 Credits</td>
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<td>VAN 301</td>
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<td>3 Credits</td>
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<td>VAN 303</td>
<td>VeterinaryHistology I: Basic</td>
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<td>VAN 302</td>
<td>VeterinaryHistology II: Systemic</td>
<td>2 Credits</td>
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<td>VAN 501</td>
<td>Veterinary Clinical Anatomy</td>
<td>2 Credits</td>
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</table>
DEPARTMENT OF VETERINARY MICROBIOLOGY

VMB 302 General Microbiology 3 Credits
30h (T), 45h (P); C
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<tr>
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<td>VMB 401</td>
<td>Pathogenic Bacteriology</td>
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<tr>
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<td>General characteristics, growth requirements,</td>
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<td>resistance pathogenicity, immunity, diagnosis</td>
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<td>and public health significance of animal</td>
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<td>pathogenic bacteria.</td>
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<td>30 h (T), 45h (P); C</td>
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<tr>
<td>VMB 402</td>
<td>Virology</td>
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<td>Structure, characteristics and classification of</td>
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<td>viruses. Pathogenesis, immunity and transmission</td>
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<td>of viruses. Nature and importance of prions and</td>
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<td>virion.</td>
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<tr>
<td>VMB 403</td>
<td>Mycology and Higher bacteria.</td>
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<td>Mycology, Rickettsial and related organisms,</td>
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<td>mycoplasma and related organisms.</td>
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<td>VMB 405</td>
<td>Veterinary Immunology</td>
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<tr>
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<td>Historical perspectives. Anatomy and histology</td>
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<td>of immunological organs, macrophages, lymphocytes</td>
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<td></td>
<td>and plasma cells. Immune responses, Antigen</td>
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<td>reaction. Principles of Immunotherapy.</td>
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<td>Vaccines, Immunization and Immunological aspects</td>
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<td></td>
<td>of cancer.</td>
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<td>15h (T); C</td>
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<tr>
<td>VMB 601</td>
<td>Veterinary Microbiology Clinics I</td>
<td>1</td>
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<tr>
<td></td>
<td>Culture media preparations. Sample collection,</td>
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<td></td>
<td>equipment preparation and laboratory isolation</td>
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<td></td>
<td>and identification of bacteria, viruses, fungi</td>
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<td></td>
<td>and other higher bacteria.</td>
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<td></td>
<td>45h(P); C</td>
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<tr>
<td>VMB 602</td>
<td>Veterinary Microbiology Clinics II</td>
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<tr>
<td></td>
<td>Culture media preparations. Sample collection,</td>
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<td></td>
<td>equipment preparation and laboratory isolation</td>
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<td></td>
<td>and identification of bacteria, viruses, fungi</td>
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<td>and other higher bacteria.</td>
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<td>45h(P); C</td>
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<td>Course Code</td>
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<tr>
<td>VMD 102</td>
<td>History of Veterinary Medicine</td>
<td>1 Credit</td>
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<tr>
<td>VMD 201</td>
<td>Animal Handling and Restraint</td>
<td>2 Credits</td>
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<tr>
<td>VMD 402</td>
<td>General Medicine</td>
<td>2 Credits</td>
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<tr>
<td>VMD 501</td>
<td>Small and Laboratory Animal Medicine</td>
<td>2 Credits</td>
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<tr>
<td>VMD 502</td>
<td>Wildlife and Aquatic Animal Medicine</td>
<td>2 Credits</td>
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<tr>
<td>VMD 503</td>
<td>Food Animal Medicine</td>
<td>2 Credits</td>
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<tr>
<td>VMD 504</td>
<td>Equine Medicine</td>
<td>1 Credit</td>
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</table>
Introduction, aetiology, clinical signs, diagnosis, treatment and control of specific diseases of infectious and non-infectious nature in horses and other equidae.

15h (T); C

VMD 506 Avian Medicine 2 Credits
Introduction, aetiology, clinical signs, diagnosis, treatment and control of specific diseases of infectious and non-infectious nature in poultry/avian species.
30h (T); C

VMD 601 Large Animal Clinics I 3 Credits
Medical, Surgical and radiographic techniques of all small and large ruminants, equine and porcine. Clinical exercises involving clerking, physical examination and sample collection, medical and surgical diagnostic, therapeutic and preventive techniques.
45h (P); C

VMD 602 Large Animal Clinics II 3 Credits
Medical, Surgical and radiographic techniques of all small and large ruminants, equine and porcine. Clinical exercises involving clerking, physical examination and sample collection, medical and surgical diagnostic, therapeutic and preventive techniques.
45h (P); C

VMD 603 Small Animal Clinics I 3 credits
Medical, Surgical and radiographic techniques of all small and large Companion animals and other canine and feline species. Clinical exercises involving clerking, physical examination and sample collection, medical and surgical diagnostic, therapeutic and preventive techniques.
45h (P); C

VMD 604 Small Animal Clinics II 3 credits
Medical, Surgical and radiographic techniques of all small and large Companion animals and other canine and feline species. Clinical exercises involving clerking, physical examination and sample collection, medical and surgical diagnostic, therapeutic and preventive techniques.
45h (P); C

VMD 605 Avian and Aquatic Animal Medicine Clinic I 3 credits
Medical, Surgical and radiographic techniques of avian and aquatic animal species. Clinical exercises involving clerking, physical examination and sample collection, medical and surgical diagnostic, therapeutic and preventive techniques.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>VMD 606</td>
<td>Avian and Aquatic Animal Medicine Clinic II</td>
<td>3</td>
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<tr>
<td></td>
<td>Medical, Surgical and radiographic techniques of avian and aquatic animal species. Clinical exercises involving clerking, physical examination and sample collection, medical and surgical diagnostic, therapeutic and preventive techniques. 45h(P); C</td>
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<tr>
<td>VMD 607</td>
<td>Veterinary Ambulatory Practice I</td>
<td>3</td>
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<tr>
<td></td>
<td>Medical and surgical diagnostic, therapeutic and preventive technique outside a conventional clinical set-up. Sampling methods and handling from field to the laboratory. 45h (P); C</td>
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<tr>
<td>VMD 608</td>
<td>Veterinary Ambulatory Practice II</td>
<td>3</td>
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<tr>
<td></td>
<td>Medical and surgical diagnostic, therapeutic and preventive technique outside a conventional clinical set-up. Sampling methods and handling from field to the laboratory. 45h (P); C</td>
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<td>VMD 609</td>
<td>Clinical Conference/Seminar I</td>
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<td>Case work-ups and Seminar presentation by each student to be coordinated by the clinic coordinator. 45h (P); C</td>
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<tr>
<td>VMD 610</td>
<td>Clinical Conference/Seminar II</td>
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<td></td>
<td>Case work-ups and Seminar presentation by each student to be coordinated by the Clinic Coordinator. 45h (P); C</td>
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**DEPARTMENT OF VETERINARY PATHOLOGY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>VPA 302</td>
<td>General Pathology</td>
<td>3</td>
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<tr>
<td></td>
<td>A lecture/laboratory study of the general principles of veterinary pathology with emphasis on inflammatory, degenerative and neoplastic changes in tissues of domestic animals. 30h (T), 45h (P); C</td>
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<td>VPA 401</td>
<td>Systemic Veterinary Pathology I</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of the pathology of the alimentary Respiratory, cardiovascular, skin and special senses. Postmortem diagnostic procedure. 30h (T), 45h (P); C</td>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>VPA 402</td>
<td>Pathology of Infectious Diseases</td>
<td>2</td>
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<td></td>
<td>A study of the pathology of infectious animal diseases that are of importance in the tropical environment.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>VPA 403</td>
<td>Systemic Veterinary Pathology II</td>
<td>3</td>
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<tr>
<td></td>
<td>A study of the pathology of the nervous, haematopoietic, urinary, genital, endocrine and musculoskeletal systems. Postmortem diagnostic procedures.</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>VPA 404</td>
<td>Avian and Aquatic Animal Pathology</td>
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<td></td>
<td>Systemic and special pathology of the avian and aquatic animal species. Gross and microscopic pathology of nutritional, bacterial, fungal, viral, rickettsial, chlamydial, parasitic and neoplastic diseases of avian and aquatic animals in the tropics. Post-mortem diagnostic procedures for the avian and aquatic animals.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>VPA 501</td>
<td>Veterinary Clinical Pathology</td>
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<tr>
<td></td>
<td>A study of clinical haematology and biochemistry, as well as exfoliative and diagnostic cytology.</td>
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<td>30h (T), 45h (P); C</td>
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<td>VPA 601</td>
<td>Veterinary Pathology Clinics I</td>
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<td></td>
<td>Clinical procedures for carrying out postmortem of dead domestic and companion animals with the sole aim of making diagnosis. Also included is haematological and clinical chemistry procedures, and histochemistry.</td>
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<td></td>
<td>45h(P); C</td>
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<tr>
<td>VPA 602</td>
<td>Veterinary Pathology Clinics II</td>
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<tr>
<td></td>
<td>Clinical procedures for carrying out postmortem of dead domestic and companion animals with the sole aim of making diagnosis. Also included is haematological and clinical chemistry procedures, and histochemistry.</td>
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<td>45h(P); C</td>
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<tr>
<td>VPB 201</td>
<td>Introductory Physiology and Haemodynamics</td>
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<td>Historical perspectives, General concept and definition of physiological terms, branches of physiology; General structure and function of blood and its formed elements, lymphatic and other body fluids.</td>
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<td>15h (T); C</td>
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<tr>
<td>VPB 202</td>
<td>Veterinary Physiology III: Reproductive and Endocrine Physiology</td>
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<td>Reproductive physiology including male and female reproductive processes. Reproductive and other endocrine hormones and their functions.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>VPB 203</td>
<td>Veterinary Physiology I: Renal</td>
<td>2</td>
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<td></td>
<td>Renal physiology, nephron and glomerular functions. Water and electrolyte balance. Antidiuretic hormone and diuretics. Physiology of micturition.</td>
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<td>30h (T); C</td>
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<tr>
<td>VPB 205</td>
<td>Veterinary Physiology IV: Cardiovascular and Respiratory</td>
<td>2</td>
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<td>30h (T), C</td>
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<tr>
<td>VPB 207</td>
<td>Veterinary Physiology III: Physiology of Digestion</td>
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<td></td>
<td>Food Digestion and utilization in monogastric, ruminant and Avian species.</td>
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<td>15h (T), C</td>
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<tr>
<td>VPB 204</td>
<td>Metabolism of Carbohydrate</td>
<td>2</td>
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<td></td>
<td>Glycolysis; Glycogenesis; Glycogenolysis; Citric acid cycle; Hexose monophosphate (HMP) gluconeogenesis; Metabolism of monomers; Regulation of and disorders of carbohydrate metabolism.</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>VPB 206</td>
<td>Protein Metabolism</td>
<td>2</td>
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<td>Chemistry and biochemistry of protein structure, metabolism and functions; Biosynthesis and catabolism of amino acids; plasma proteins and functions, Urea cycle; Ketogenic and glucogenic amino acids; Inborn errors of amino acid metabolism.</td>
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<td>15h (T), 45 (P); C</td>
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<td>Course Code</td>
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<tr>
<td>VPB 208</td>
<td>Lipid Metabolism</td>
<td>1 Credit</td>
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<td></td>
<td>Blood lipids; Biosynthesis, classification, metabolism and utilization of lipids; cholesterol and triacylglycerol metabolism; Phospholipids; Oxidation of fats; Unsaturated fatty acids; Essential fatty acids and disorders of fat/lipid metabolism.</td>
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<tr>
<td>VPB 209</td>
<td>Practical Physiology I</td>
<td>1 Credit</td>
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<tr>
<td></td>
<td>Physiology practicals on renal, cardiovascular, respiratory and Digestive Physiology</td>
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<tr>
<td>VPB 301</td>
<td>Veterinary Physiology V: Neuromuscular</td>
<td>2 Credits</td>
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<td></td>
<td>Impulse propagation and conduction. Central and autonomic nervous system muscles and bones. Reflex mechanism and types. Neurotransmitters. Physiological properties and functions of the autonomic nervous system.</td>
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<tr>
<td>VPB 302</td>
<td>Molecular Cell Biology</td>
<td>2 Credits</td>
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<td></td>
<td>A sub-cellular and molecular basis of cell function and mode by which cells multiply replicate and pass genetic information including DNA structure and protein synthesis. cellular interactions and signaling</td>
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<tr>
<td>VPB 303</td>
<td>Veterinary Physiology VI: Central Nervous System and Special Senses</td>
<td>2 Credits</td>
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<td></td>
<td>Classification of reflexes; classification and properties of nerve fibres. Origin and propagation of nerve impulse. Sensory and Motor functions of the spinal cord and the brain.</td>
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<tr>
<td>VPB 305</td>
<td>Veterinary Physiology VII: Avian and Environmental Physiology</td>
<td>1 Credit</td>
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<td></td>
<td>Effect of environment on physiological processes. Environmental factors altering physiological processes, Physiology of adaptation, Physiology of thermoregulation. Physiology of the Avian and aquatic animals.</td>
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<tr>
<td>VPB 307</td>
<td>Practical Physiology II</td>
<td>1 Credit</td>
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<tr>
<td></td>
<td>Practicals on the physiology of the peripheral and central nervous system, special senses, avian and environmental physiology.</td>
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<tr>
<td>VPB 309</td>
<td>Rumen and Lactation Biochemistry</td>
<td>2 Credits</td>
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<td></td>
<td>Chemistry and biochemistry of Rumen microbes; Prebiotics; Probiotics; Production of volatile fatty acids; Belching; Chemistry and biochemistry of milk secretion, production and ejection.</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>VPB 311</td>
<td>Nucleic Acid Metabolism</td>
<td>2</td>
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<tr>
<td></td>
<td>Nucleic acid structure and composition;</td>
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<tr>
<td></td>
<td>biosynthesis and function, DNA structure</td>
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<td>and replication, DNA mutation and repair</td>
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<tr>
<td></td>
<td>mechanisms, RNA structure, transcription,</td>
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<td>post-transcriptional processing,</td>
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<td>proteomes and proteomics, DNA-based</td>
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<td>information technologies.</td>
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<td><strong>15h (T), 45h (P); C</strong></td>
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<tr>
<td>VPE 301</td>
<td>General Parasitology</td>
<td>2</td>
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<tr>
<td></td>
<td>Definition of terms in Veterinary</td>
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<td></td>
<td>Parasitology. Classification and taxonomy</td>
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<tr>
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<td>of arthropods, helminths and protozoan of</td>
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<td></td>
<td>veterinary importance. General health</td>
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<td></td>
<td>effects of parasites; Principles of</td>
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<td>diagnosis and control of parasites.</td>
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<td>Effectors system of parasite killing.</td>
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<td><strong>30h (T); C</strong></td>
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<tr>
<td>VPE 401</td>
<td>Veterinary Protozoology</td>
<td>3</td>
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</tbody>
</table>
Introduction and classification of Protozoan parasites of veterinary importance. Protozoan transmitted by insects – *Trypanosomes, Plasmodium, Leishmania, Leucocytozoon, Haemobartonella and Entamoeba*; Protozoan transmitted by contact and resistant cysts - *Eimeria, Balantidium, Giardia, Toxoplasma, Sarcocystis and Bedsonia*.

30h (T), 45h (P); C

**VPE 402 Veterinary Entomology**
2 Credits
Vectors, binomial system of nomenclature, ecology and role in disease transmission, distribution, population dynamics, veterinary/medical importance. Control of arthropods, insecticides and insecticide resistance.
15h (T), 45h (P); C

**VPE 403 Veterinary Helminthology**
3 Credits
Life cycle, pathogenicity and control of (1) Platyhelminths Trematodes (Digenea and Aspidobothrial) Cestodes (*Pseudophyllidea Cyclophyllidea*) (Nemathyhelminths Nematodes *richostrongyloide Strongloidea, Rhabdoitidea, Spirurids, Filaroidea*). Aphasmida, Control of helminth parasites.
30h (T), 45h (P); C

**VPE 601 Veterinary Parasitology Clinics I**
1 Credit
Procedures for sample collection, transportation, handling and laboratory isolation and identification of parasites of domestic and companion animals.
45h (P); C

**VPE 603 Veterinary Parasitology Clinics II**
1 Credit
Procedures for sample collection, transportation, handling and laboratory isolation and identification of parasites of domestic and companion animals.
45h (P); C
VPH 101 Environmental Health 1 Credit
Biosecurity measures, environmental pollution and control, water sources, contamination and purification, waste management, occupational hazard, public health significance of rodents, birds and insects. Reproductive health and personal hygiene.
15h (T); C

VPH 103 Veterinary Ethics 1 Credit
Regulations, rules and orders relating to animal movement, importation, trade cattle routes and animal welfare, concept of professionalism and professional competence, veterinary ethics, practice and societal expectations. Regulating of importations, marketing and uses of veterinary biologicals, implementation of veterinary laws in Nigeria, Veterinary Council of Nigeria as a regulatory body for veterinary practice in Nigeria.
15h (T); C

VPH 402 Biostatistics 1 Credit
15h (T); C

VPH 501 Epidemiology and Preventive Medicine 3 Credits
30h (T), 45h (P); C

VPH 502 Veterinary Jurisprudence 1 Credit
Legislations regulating veterinary practice, legal and Professional responsibilities of veterinary surgeons. Law on the control of veterinary drugs. Organization of veterinary services in Nigeria. 15h (T); C
VPH 504  Food Hygiene                          2 Credits
15h (T), 45h (P); C

VPH 506  Veterinary Economics and Business Management        2 Credits
Basic micro and macroeconomic concepts in animal production and health. Cost of public health schemes. Economics of livestock production, marketing and veterinary services. Livestock production functions including data collection and analysis, marketing theory in relation to livestock production, application of economic theory and quantitative analysis. Capital investment and depreciation of capital, the economics of egg, meat and milk production. Livestock feed economics and marketing, input/return relationship in livestock production. Project appraisal, report writing and feasibility studies. Business organizations, administration and promotion.
30h (T); C

VPH 508  Zoonoses                                        2 Credits
30h (T); C

VPH 510  Computer Application in Veterinary Medicine        1 Credit
History of computers. Hardware components, Operating and application software’s. Features and Uses of word processing and other packages. Introduction to Spreadsheets, Database Management Systems and designing Computer-based Veterinary disease reporting systems. Introduction to geographic information system (GIS) and its use in biological risk management. Use of Global Positioning System in geo-referencing and estimating pattern of spread of disease. Computer aided animal population census and ecosystem health. Other uses of computers in veterinary practice
45h (P); C

VPH 601  Veterinary Public Health Clinics I                 1 Credit
Abattoir visits, meat inspection, sample collection, transportation, handling and laboratory analysis. Procedures for sample collection (milk and milk products).
45h (P); C
VPH 602 Veterinary Public Health Clinics II 1 Credit
Abattoir visits, meat inspection, sample collection, transportation, handling and laboratory analysis. Procedures for sample collection (milk and milk products).
45h (P); C

DEPARTMENT OF VETERINARY PHARMACOLOGY AND TOXICOLOGY

VPT 302 General/Neuropharmacology 2 Credits
History and basic principles of Veterinary Pharmacology and toxicology including drug forms, absorption, metabolism, excretion; mechanisms of action and drug quantization. Pharmacology of the autonomic and central nervous systems.
15h (T), 45h (P); C

VPT 304 Radiation Biology 2 Credits
History and uses of radiation, radiation physics and chemistry and biological effects of radiation. Radiation Genetics.
15h (T), 45h (P); C

VPT 401 Systemic Veterinary Pharmacology 3 Credits
30h (T), 45h (P); C

VPT 402 Veterinary Chemotherapy 3 Credits
A study of chemotherapeutic agents including anti-protozoan, anti-cancer drugs, anthelmintics, antiseptics, disinfectants, vitamins and immune-therapeutic drugs.
30h (T), 45h (P); C

VPT 403 Introductory Toxicology 1 Credit
Historical perspectives, classification of toxic agents, Factors altering toxicity, principles and general management of poison, toxicokinetics, toxicodynamics and target organ toxicity.
15h (T); C

VPT 404 Veterinary Toxicology 3 Credits
General principles of toxicology. Toxicology of heavy metals, pesticides, poisonous plants and animals, toxins, and environmental poisons. Toxicological antidotes and clinical usages.

30h (T), 45h (P); C

VPT 501 Veterinary Clinical Pharmacology 2 Credits
Principles of drugs dependency, compounding and prescription. Common drugs abbreviations. The therapeutic strategies, choice of drugs monitoring of therapeutic responses. Formulation of veterinary drugs. Medicinal plants of veterinary importance. 15h (T), 45h (P); C

VPT 601 Veterinary Pharmacy Clinics I 1 Credit
Clinical studies of drug prescription, drug interaction, drug synergy, indications and contraindications. Dosages, route of administrations, excretions and withdrawal period. 45h(P); C

VPT 602 Veterinary Pharmacy Clinics II 1 Credit
Clinical studies of drug prescription, drug interaction, drug synergy, indications and contraindications. Dosages, route of administrations, excretions and withdrawal period. 45h(P); C

VPT 603 Veterinary Toxicology Clinics I 1 Credit
Procedures for clerking, toxicological samples, handling and analysis, clinical and forensic toxicology and toxicological reporting, Management of toxicology emergencies. 45h (P); C

VPT 604 Veterinary Toxicology Clinics II 1 Credit
Procedures for clerking, toxicological samples, handling and analysis, clinical and forensic toxicology and toxicological reporting, management of toxicology emergencies. 45h (P); C
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>VSR 402</td>
<td>Introductory Surgery and Anaesthesiology</td>
<td>3</td>
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<td>Principles and objectives of surgery; instruments and operating room conduct. Suture patterns, Suture materials, Suturing needles, Dressing materials. Preoperative evaluation Surgical techniques. Post-surgical evaluation. Pre anaesthetic assessment and classification of patients. Anaesthetic agents in small and large animals; Administration of inhalation anaesthetic agents Wound healing and complications.</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>VSR 501</td>
<td>Small Animal Surgery</td>
<td>3</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>VSR 502</td>
<td>Orthopaedics</td>
<td>2</td>
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<td>15h (T), 45h (P); C</td>
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<tr>
<td>VSR 503</td>
<td>Large Animal Surgery</td>
<td>3</td>
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<td>30h (T), 45h (P); C</td>
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<tr>
<td>VSR 504</td>
<td>Large Animal Lameness</td>
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<td>Examination of animals for soundness and writing of certificates. Causes, treatment and prevention of lameness in large animals.</td>
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<td>15h (T); C</td>
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<tr>
<td>VSR 505</td>
<td>Introduction to Radiology and Imaging</td>
<td>1</td>
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<tr>
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<td>Principles and types of medical imaging, uses of imaging techniques. Types of machines used for imaging, Design of X ray building, Protective facilities in X ray room. Dark room facilities.</td>
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<td>15h (T); C</td>
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<tr>
<td>VSR 506</td>
<td>Diagnostic Imaging</td>
<td>2</td>
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15h (T), 45h (P); C

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<th>Course Code</th>
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<tr>
<td>VTP 201</td>
<td>Animal Management and Husbandry</td>
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<tr>
<td>VTP 202</td>
<td>Aquaculture</td>
<td>2</td>
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<tr>
<td>VTP 204</td>
<td>Animal Breeding and Genetics</td>
<td>2</td>
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<tr>
<td>VTP 203</td>
<td>Feeds and Feeding</td>
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**DEPARTMENT OF THERIOGENOLOGY AND PRODUCTION**

**VTP 201 Animal Management and Husbandry**
30h (T), 45h (P); C

**VTP 202 Aquaculture**
Principles of aquaculture, water needs and adequacy of drainage area, minimum pond length and drainage area protection, hydrologic estimates and soil groupings. Fish pond, design and construction, water quality management and basic strategies in the effective management of aquatic renewable resources. Ration formulation.
15h (T), 45h (P); C

**VTP 204 Animal Breeding and Genetics**
Variance, co-variances, partitioning of phenotypic variance. Genotype by environment interaction; Statistical tools for studying inheritance; Estimation of genetic parameters (heritability, repeatability, genetic correlations); In breeding, line breeding and relationship, cross-breeding in practice, selection principles and methods; breeding (mating) systems; breeding plans for different farm animal species; foundation stock development. Genetic improvement for various livestock traits.
15h (T) 45h (P); C

**VTP 203 Feeds and Feeding**
2 Credits
Survey of Nigerian feeds and feeding stuffs. Classification of feeds, feeding stuffs and feed supplements into roots, tubers, cereals, legumes, roughages, etc. Chemistry, processing and nutritive values of livestock feeding stuffs, their storage, quality control and evaluation of feeding stuffs and feeds. Feeding standard and ration formulation. Concentrate feeds, cereals, legumes and oil seeds. Chemistry and nutritive values of some Nigerian grasses and legume species. Protein and energy requirements of livestock and fish.
15h (T), 45h (P); C

VTP 206  Range Management  1 Credit
Introduction and principles of rangeland management, Taxonomy and economy of range plants, tools of rangeland management, range productivity, careful use and management of rangeland resources (plants, animals, soil, and water), concept of range improvement, management and utilization, environmental effect of soil-range-plant-animal relationships.
15h (T); C

VTP 208  Veterinary Livestock Extension Techniques  2 Credits
15h (T), 45h (P); C

VTP 301  Wildlife and Zoo Management  1 Credit
Principles of wildlife management and their ecology, Fundamental concepts of zoo animal management including health and safety, feeding and handling, enclosure management, behavior and population management, maintenance of records and permits. Veterinary treatment techniques for zoo animals. Includes preventative health care and identification of health problems, restraint, immobilization, and transport, administration of prescribed medication, and care of geriatric and neonate animals.
15h (T); C

VTP 302  Animal Production I: Ruminants and Monogastrics  2 Credits
Introduction and historical perspectives, ruminant and monogastric animals breeds and selection, Ruminant and monogastric production techniques, Anatomy and Physiology of ruminant and monogastric animal gastrointestinal system, Microbiology, physiology and biochemistry of rumen. Metabolic processes and pathways; Non-protein nitrogen utilization; Feed additives, proximate analysis; ration formulation, use of agro-industrial by-products in ruminant feeding; Principles of monogastric nutrition. Nutrient requirements for various classes and species of non-ruminant animals. Water in relation to nutrition, nutritional/metabolic disorders in ruminant and monogastric animals.

30h (T); C

VTP 304 Animal Production II: Avian and Aquatic 2 Credits
History of the domestic fowl, fish and other aquatic animals. Types and breeds of domestic birds, inheritance of qualitative traits, breeding for improvement, parent and grand parent production, Special husbandry (housing and feeding including ration formulation) requirements of broilers, layers, breeders, cockerels, fish and other aquatic animals. Rearing and management technique. Special requirements of turkey, guinea fowls, ducks, ostrich and quail, fish and other aquatic animals.
30h (T); C

VTP 306 Companion Animal Production and Training 2 Credits
Types and breeds of companion animals, uses of companion animal diseases, breeding, companion animal behaviour and psychology, Nutritional requirement and feed formulation, management and housing requirements, companion animal care and grooming, care of the hoof, Bathing tips, tooth care. Basic training of puppies and adult dogs.
30h (T); C

VTP 401 Veterinary Gynaecology 3 Credits
Review of physiology of reproduction, Clinical examination of female animals, Clinical examination of the non-pregnant cow, pregnancy diagnosis, infertility and sterility in animals, general diseases influencing sexual functions, Special techniques.
30h (T) 45h (P); C

VTP 402 Andrology and Artificial Insemination 1 Credit
Introduction, Anatomy, functions and clinical examination of male reproductive organs, Serving ability and behaviour in male animals, Examination of the bull for breeding soundness, Infertility in male animals, Diseases of testis and accessory organs in male animals, Artificial Insemination, Semen production and disorders, Semen collection, handling, transportation, evaluation and preservation, Heat detection methods, Oestrus synchronization techniques, Methods of AI, sexual health in AI program, Animal Biotechnologies, MOET, Genetic engineering.
45h (P); C

VTP 501 Veterinary Obstetrics 3 Credits
Introduction Obstetrical Anatomy, Physiology of gestation period, abortion, parturition, dystocia, Procedure preliminary to handling of dystocia, Obstetrical operations, postpartum physiology, Injuries and diseases of the puerperal period, Care of the postparturient dam, Care of the postparturient dam, Care and diseases of the neonates. 30h (T), 45h (P); C

**VTP 502 Neonatal Diseases and Care** 1 Credit
Definition of Terms, classification, post obstetrical complications, abnormal conditions of the placenta, vagina, uterus, care of the newborn, housing and routine nursing, Neonatal care, umbilical care, mastitis – clinical signs, diagnosis and treatment, management of the udder diseases of the newborn, determinants of mortality in neonates, investigating neonatal deaths, general principles in the treatment of infectious diseases in neonates, economic impact of neonatal diseases, diagnosis and management.
15h (T); C

**VTP 601 Veterinary Theriogenology Clinics I** 2 Credits
Clinical exercises involving clerking, physical examination and sample collection from animals with infertility and other reproduction problems. Diagnosis, differential diagnosis and treatment of animals with reproduction problems.
90h(P); C

**VTP 602 Veterinary Theriogenology Clinics II** 2 Credits
Clinical exercises involving clerking, physical examination and sample collection from animals with infertility and other reproduction problems. Diagnosis, differential diagnosis and treatment of animals with reproduction problems.
90h(P); C

**SUMMARY**

100 Level

**Compulsory Courses:**
VAN 101 (1), 102 (1), VAN 104 (2), VMD 102 (1), VPH 101 (1), 103 (1)
= 7 Credits

**Required Courses:**
CHM 101 (3), 112 (2), 115 (2), 116 (1), 132 (2), CSC 111 (2), 112 (2),
112 (2), 112 (2), MAT 115 (3), 116 (3), PHY 115 (2), 152 (3),
106 (2) = 39 Credits

GNS 111
191 (1), 192 (1), STA 132 (2), ZLY 101 (2), 103 (2),

Total =46 Credits
### 200 Level

**Compulsory Courses:**
- FVM 298 (3), VAN 201 (3), 202 (3), 203 (2), 204 (1), 205 (3), 207 (1), 209 (1), VTP 201 (3), 202 (2), 203 (2), 204 (2), 206 (1), 208 (2)  
- VMD 201

**Required Courses:**
- GNS 211 (2), 212 (2)

**Total** = 44 Credits

### 300 Level

**Compulsory Courses:**
- FVM 398 (3), VAN 301 (3), 302 (3), 303 (2), VMB 302 (3), VPA 302 (3), VPB 301 (2), 302 (2), 303 (3), 305 (1), 307 (1), 309 (2), 311 (2), VPE 331 (2), VTP 302 (2), 304 (2), VTP 301 (1), 302 (2), 304 (2), 306 (2)

**Required Courses:**
- GSE 301 (3), GNS 311 (2)

**Total** = 43 Credits

### 400 Level

**Compulsory Courses:**
- FVM 498 (3), VMB 401 (3), 402 (2), 403 (1), 405 (1), VMD 402 (2), VPA 401 (3), 402 (2), 403 (3), 404 (2), VPE 401 (3), 402 (2), 403 (3), 404 (2), VTP 401 (3), 402 (1), VPH 401 (1)

**Required Courses:**
- Nil

**Total** = 48 Credits

### 500 Level

**Compulsory Courses:**

**Required Courses:**
- Nil

**Total** = 47 Credits

### 600 Level

**Compulsory Courses:**

**Total** = 47 Credits
601 (2), 602 (2), VPT 601 (1), 602 (1), 603 (1), 604 (1), VTP 601 (2), 602 (2)

= 48 Credits

Required Courses: Nil

Graduation Requirement:
UTME: 285 Credits
DE: 243 Credits

= 48 Credits

GENERAL STUDIES DIVISION

W. O. Egbewole  LL.B. (OAU); BL.; LL.M. (OAU);
Ph.D. (Ilorin)  Professor & Director

S. D. Kolawole  Senior Executive Officer

Objectives of the Programme:

1. To improve the language and communication skills of all students and to help them develop adequate competence in the Use of English Language as a tool for their present studies and future employments.

2. To assist students to develop and expand awareness of their social, cultural and physical environments which invariably will prepare them to function effectively in their society.

3. To cultivate in the student desirable habits, values and attitudes of patriotism, nationalism and to appreciate the status of the Constitution as the will of the people and sensitize students to the functions and obligations of Government.
4. To introduce students to the broad areas of the Sciences and create an awareness of the services of Science to man and the effect of science on the human society.

GNS 111 Use of English I 2 Credits


15 (T), 45h (P); R

GNS 112 Use of English II 2 Credits


15 (T); 45h (P); R

GNS 211 Philosophy, Logic and Nigerian Culture 2 Credits


30h (T); R

GNS 212 Introduction to Social Sciences and
Citizenship Education 2 Credits


30h (T); R

GNS 311 History and Philosophy of Science 2 Credits


30h (T); R

GNS 303; 302; 114 Digital Skill Acquisition 1 Credit


The Internet and the Web: Internet providers, connections and protocols. E-mail, internet services, E-commerce, Browsers, search tools, Web utilities, Intranets, extranets, and firewalls.

Office Applications: Operating Systems, Word processor, spreadsheet, database management system, and presentation graphics.

15h(T):(C)
GSE 202  Introduction to Entrepreneurship Studies     2 Credits


10h (T); R

GSE 301  Entrepreneurial Skills Acquisition     2 Credits

Entrepreneurship in Practice:

Students are required to choose one skill from the following options:

1  Plastic Making
2  Training & Consultancy
3  Bar Soap Making
4  Powdered Detergent Making
5  Liquid Detergent Making
<table>
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>6</td>
<td>Hair Cream Making</td>
</tr>
<tr>
<td>7</td>
<td>Body Cream &amp; Ointment Making</td>
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<td>Hair Shampoo Making</td>
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<td>Liquid Toilet Wash Making</td>
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<td>Apiculture (Bee Keeping)</td>
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<td>Food Processing &amp; Packaging</td>
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<td>Shoe Making</td>
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<td>General Printing</td>
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Screen Printing
Book Binding
Building, drawing & Draughtmanship
Water Treatment & Packaging
Paint Production
Paint Application Skill
Domestic Electrical Wiring
Radio & TV Repair
Poultry
Poultry Feed Making
Auto Mechanical Repair
Auto Electrical Repair
Auto Body Panel Repair
Auto Body Spraying
Small Engine Repair (Generator & Motorcycle)
Plumbing and Pipe fitting
Refrigeration & Air-conditioning
Welding & Fabrication
Ceramic Production
Tiles Production
Tile Works
Inverter Building
Music
53 Dance
54 Creative Arts
55 Stage Design/ Scenic Design
56 Interior Decoration
57 Web Designing
58 Blogging
60 Computer Repair
61 Computer Graphic Design
62 Computer Programming
63 Fumigation & Pest Control
64 Waste Management & Recycling
65 Biogas Technology
66 Moringa Production & Marketing
67 Events Management
68 Heliciculture (Snailry)
69 Grass cutter Production
70 Quail Production & Management
71 Horticulture & Landscaping
72 Audio & Video Production
73 Choreography
74 Acting
75 Directing
76 Lighting
77 Instrumentation
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<td>Germicide &amp; Disinfectants</td>
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<td>Make-up &amp; Cosmetologist</td>
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101 Commercial Herbal Cultivation, Collection and Packaging
102 Upholstery
103 Store Keeping
104 Book Keeping
105 Marketing
106 Salesmanship
107 Tourism
108 Carpentry and Joinery
109 Machine Woodworking
110 Auto Parts Merchandising
111 Block Laying, Brick Laying and Concrete Work
112 Electrical Installation and Maintenance Work
113 Stenography
114 Catering Craft Practice
115 Furniture Making
116 Wig making
117 Cattle Breeding
118 Goat Breeding
119 Sheep Breeding
120 Rice Cultivation
121 Soya beans Cultivation
122 Cashew Cultivation
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