

**COMPUTER AND COMMUNICATIONS ENGINEERING
OPTIONS**

100 FIRST

Course Code	Course Title	L	T	P
MTH111	Elementary Algebra I	2	1	0
MTH112	Calculus I	2	1	0
PHY171	Basic Experimental Physics I	0	0	0
PHY183	Introductory Mechanics and Properties of Matter	2	1	0
PHY184	Introductory Heat and Sound	2	1	0
CHM101	Foundation Chemistry I	2	1	3
GNS101	Use of English I	2	0	0
GNS201	Information Science	2	0	0
	Total Units			

100 SEC

Course Code	Course Title	L	T	P
MTH121	Elementary Algebra II	3	1	0
MTH122	Calculus II	3	1	0
PHY172	Basic Experimental Physics II	0	0	3
PHY188	Introduction to Electricity and Magnetism	2	1	0
CHM102	Foundation Chemistry II	2	1	3
GNS102	Use of English II	2	0	0
GNS202	Nigerian Peoples and Culture in the Context of African History	2	0	0
CS142	Introduction to Computer Science	2	1	0
	Total Units			

200 FIRST

Course Code	Course Title	L	T	P
CE211	Strength of Materials I	1	1	0
EE211	Electrical Engineering Fundamentals I	2	1	0
ME211	Engineering Mechanics I	1	1	0
ME212	Engineering Drawing I	1	0	3
ME213	Thermo Sciences I	1	1	0
ME214	Workshop Practice I	0	0	3
MTH212	Mathematical Methods I	2	1	0
GNS301	Entrepreneurship & Innovation	2	0	0
EG210	Engineering Laboratories I	0	0	9
ES217	Engineer in Society	2	0	0
Total Units				

200 SEC

Course Code	Course Title	L	T	P
CE222	Strength of Materials II	1	1	0
CE223	Engineering Hydromechanics	1	1	0
EE222	Electrical Engineering FundamentalsII	2	1	0
ME226	Materials Science	2	0	0
ME222	Engineering Mechanics II	1	1	0
ME223	Engineering Drawing II	1	0	3
ME224	Thermo Sciences II	1	1	0
ME225	Workshop Practice II	0	0	3
MTH222	Mathematical Methods 2	2	1	0
EG220	Engineering Laboratories II	0	0	9
GNS222	Peace and Conflict Resolution Studies	2	0	0
Total Units				

**EIT230: Student Work
Experience
Programme (SWEP)**

(2 Units)

Students will undergo three (3) months of SWEP scheme at the end of second semester during the long vacation.

300 FIRST

Course Code	Course Title	L	T	P
EA311	Introductory Engineering Statistics	2	1	0
EE311	Circuit Theory I	2	1	0
EE312	Analogue Electronics Circuits	2	1	0
EE313	Electromagnetic Fields & Waves I	2	1	0
EE314	Telecommunication Principles	2	1	0
EE315	Measurement & Instrumentation	2	1	0
EE316	Telecommunication Laboratory	0	0	3
EE317	Electrical & Electronics Workshop	0	0	3
MTH337	Numerical Analysis	2	1	0
Total Units				

300SECOND

Course Code	Course Title	L	T	P
EA321	Topics in Engineering Maths	2	0	0
EE321	Electrical Machines	3	1	0
EE322	Digital Electronics	2	1	0
EE323	Circuit Theory II	2	1	0
EE324	Electromagnetic Fields and Waves II	2	1	0
EE325	Electrical Machines Laboratory	0	0	3
EE326	Digital electronics Laboratory	0	0	3
EE327	Measurement / Instrumentation Laboratory	0	0	3

GNS302	Business Creation and Growth	2	0	0
MTH323	Complex Analysis	2	1	0
Total Units				

EIT330: Student Industrial Work Experience Scheme I (SIWES I) (2 Units)

Students will undergo industrial training for three (3) months during the long vacation at the end of second semester.

400 FIRST

Course code	Course Structure	L	T	P
CCE411	Computer Programming and Knowledge Based System	2	0	0
CCE412	Project and Seminar I	-	-	-
CCE413	Database Management System	2	0	0
CCE414	Computer & Communication Network	2	0	0
CCE415	Soft Computing Techniques	2	0	0
EE411	Control Engineering I	2	1	0
EE413	Digital Systems	2	1	0
EE414	Analogue Circuit Design	2	1	0
EE415	Physical Electronics	2	1	0
EE417	Digital Systems Laboratory	0	0	3
EE418	Control Engineering Laboratory	0	0	3
Total Units				

400 SECOND

EIT430: Student Industrial Work

**Experience Scheme
(SIWES II): (4 Units)**

500 FIRST COMP ENGI

Course Code	Course Title	structure		
		L	T	P
CCE510	Project and Seminar II	-	-	-
CCE511	System Programming	2	0	0
CCE512	Internet Technology & Programming	2	0	0
CCE513	Industrial Electronics	2	0	0
CCE514	Computer Architecture	2	1	0
CCE515	Introduction to Artificial Intelligence	2	0	0
EE501	Control Engineering II	2	1	0
EE502	Microcomputer & Microprocessor Systems	2	1	0
EE507	Digital Signal Processing	2	0	0
EE513	Microcomputer & Microprocessor Systems Laboratory	0	0	3
	Elective Course	2	1	0
	Total Units			

500 SEC COM ENGI

Course Structure

Course Code	Course Title	L	T	P
CCE510	Project and Seminar II	-	-	-
CCE520	Software Engineering	2	0	3
CCE521	Programming and Languages	2	0	0
CCE522	Electronics Material Technology	2	0	0
CCE523	Microprogramming	2	0	0
CCE524	Cryptography & Network Security	2	0	0
CCE529	Embedded System Design	2	0	0

EE523	System Reliability & Maintainability	2	0	0
	Elective Course	2	1	0
	Total Units			

**500 FIRST COMMS
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Course Structure

Course Code	Course Title	L	T	P
CCE510	Project and Seminar II	-	-	-
CCE513	Industrial Electronics	2	0	0
CCE516	Optical Communication System	2	0	0
CCE517	Satellite Communication	2	0	0
CCE518	Wireless & Mobile Communication	2	0	0
EE501	Control Engineering II	2	1	0
EE502	Microcomputer & Microprocessor Systems	2	1	0
EE507	Digital Signal Processing	2	0	0
EE508	Microwave Engineering	2	1	0
EE509	Microwave Engineering Laboratory	0	0	3
EE513	Microcomputer & Microprocessor Systems Laboratory	0	0	3
	Elective Course			
	Total Units	2	1	0

**500 SECOND COMM
ENGI**

Course Structure

Course Code	Course Title	L	T	Pre-Requisite
CCE510	Project and Seminar II	-	-	IT
CCE522	Electronics Material Technology	2	0	-
CCE525	Telecommunication Engineering	2	0	EE508
CCE526	Digital Communication System	2	0	-
CCE527	Image and Data Transmission System	2	0	EE312
CCE528	Communication Systems Planning	2	0	-
CCE540	Telecommunication Services Design	2	0	-
EE523	System Reliability & Maintainability	2	0	-
	Elective Course	2	1	-
		Total Units		

**500 ELECT FIRST
COMPUTER AND
COMMUNICATIONS
ENGI OPTIONS**

Course Code	Course Title	L	T	P
ST371	Probability Theory I	2	1	0
ST372	Optimization Theory	2	1	0
MTH336	Operations Research I	2	1	0

**500 ELECT SEC
COMPUTER AND
COMMUNICATIONS
ENGIN OPTIONS**

Course Code	Course Title	L	T	P
ST382	Probability Theory II	2	1	0
MTH346	Operations Research II	2	1	0
ST381	Time Series & Index	2	1	0

