

ELECTRICAL ENGINEERING COURSES
Level 100 (First and Second Semesters)

Course Code	Course Title	Credit Units	Remarks
CHM 1270	Practical Chemistry	2	Core
CHM 1230	Inorganic Chemistry	2	“
CHM 1240	Organic Chemistry	2	“
CHM 1250	Physical Chemistry	2	“
CSC 1201	Intro. To Computer Science	2	“
GSP 1401	Use of English	4	“
MTH 1301	Elementary Mathematics. I	3	“
MTH 1302	Elementary Mathematics. II	3	“
MTH 1303	Elementary Mathematics. III	3	“
PHY 1170	Practical I	1	“
PHY 1180	Practical II	1	“
PHY 1210	Mechanics	2	“
PHY 1220	Elect. & Magnetism	2	“
PHY 1230	Behaviour of Matter	2	“
STA 1311	Probability I	3	“
	TOTAL	34	

Level 200 (First and Second Semesters)

Course Code	Course Title	Credit Units	Remarks
ENG 2207	Principles of Electrical Engineering I	2	Core
ENG 2208	Principles of Electrical Engineering II	2	“
GSP 2201	Foundation of Nigerian Culture	2	“
GSP 2202	Nigerian Government & Economy	2	“
GSP 2222	Peace and Conflict Resolution	2	“
GSP 2401	Use of English	4	“
ENG 2103	Experimental Methods & Analysis	1	“
ENG 2205	Thermodynamics I	2	“
ENG 2206	Material Science I	2	“
ENG 2306	Applied Mechanics	3	“
ENG 2101	Engineer in Society	1	“
ENG 2102	SWEP	1	“
ENG 2201	Fluid Mechanics I	2	“
ENG2202	Solid Mechanics I	2	“
ENG 2203	Engineering Drawing I	2	“
ENG 2204	Workshop Practice	2	“
ENG 2304	Laboratory A	3	“
ENG 2301	Mathematics I	3	“

ENG 2302	Mathematics II	3	“
ENG 2313	Computer Programming	3	“
ENG 2305	Laboratory B	3	“
TOTAL		43/47	

Level 300

(A) First Semester

Course Code	Course Title	Credit Units	Remarks
ENG 3101	Engineer in Society	1	Core
ENG 3301	Engineering Mathematics	3	“
ELE 3201	Control Engineering I	2	“
ELE 3303	Circuit Theory I	3	“
ELE 3305	Electronics Engineering I	3	“
ELE 3307	Electric Machines I	3	“
ELE 3309	Laboratory/Projects	3	“
ELE 3301	Engineering Electromagnetic I	3	“
MEC 3200	Thermodynamics	2	“
TOTAL		23	

(B) Second Semester

Course Code	Course Title	Credit Units	Remarks
ELE 3304	Circuit Theory II	3	Core
ELE 3306	Computer Engineering I	3	“
ELE 3202	Power Engineering I	2	“
ELE 3310	Laboratory/Project II	3	“
ELE 3302	Engineering Electromagnetics II	3	“
ELE 3308	Measurements & Instrumentation	3	“
ENG 3202	Computational Techniques	2	“
ENG 3102	Technical Writing And Presentation	1	“
ENG 3311	Computer Applications	3	“
EEP 3201	Entrepreneurship and Innovation	2	“
ENG 3203	SIWES	2	Long Vacation
TOTAL		27	

Level 400

(A) First Semester

Course Code	Course Title	Credit Units	Remarks
ENG 4201	Engineering Statistics	2	Core

ENG 4101	Engineer in Society III	1	“
ELE 4301	Telecommunications Engineering I	3	“
ELE 4302	Electrical Machines II	3	“
ELE 4303	Electronics Engineering II	3	“
ELE 4201	Control Engineering II	2	“
ELE 4202	Power Engineering II	2	“
ELE 4204	Computer Engineering II	2	“
ELE 4101	Power Electronics I	1	“
ELE 4304	Laboratory/Projects III	3	“
EEP 3202	Business Creation and Growth	2	“
	TOTAL	24	

Level 400 Second Semester

ENG4401	Siwes II	4 Credit	Long Vacation
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Level 500

(A) First Semester

Course Code	Course Title	Credit Units	Remarks
ELE 5200	Computer Laboratory	2	Core
ELE 5202	Modern Control Theory	2	Core
ELE 5203	Reliability & Maintainability of Electrical/Electronic Systems	2	Core
ELE 5205	Power Electronics II	2	Core
ELE 5207	Power Systems Engineering	2	Core
ELE 5208	Electronics Engineering III	2	Core
ELE 5209	Computer Engineering III	2	Core
	TOTAL	14	

(B) Second Semester

Course Code	Course Title	Credit Units	Remarks
ELE 5201	Computer Systems & Software Engineering	2	Core
ELE 5204	Advanced Circuit Techniques	2	Core
ELE 5206	Telecommunications Engineering II	2	Core
ELE 5214	Electrical Services Design	2	Core
MEC 5405	Engineering Management	4	Core
ELE 5601	Project	6	Core
	TOTAL	18	Core

Plus three electives from the following options:

ELECTIVES

Course Code	Course Title	Credit Units	Remarks
ELE 5210	Electric Drives	2	Elective
ELE 5211	Switchgear & High Voltage Engg.	2	Elective
ELE 5212	Advanced Electrical Machinery	2	Elective
ELE 5213	Electrical Power Generation & Energy Systems	2	Elective
ELE 5215	Electrical Machine Design	2	Elective
ELE 5216	Remote Control and Telemetry	2	Elective
ELE 5217	Communication Systems	2	Elective
ELE 5218	Microcomputer Hardware & Software Techniques	2	Elective
ELE 5219	Analogue Computer Programming	2	Elective
ELE 5220	Digital Signal Processing	2	Elective
ELE 5221	Industrial Electronics Design	2	Elective
ELE 5222	Digital Control Systems	2	Elective
ELE 5223	Advanced Computer Programming	2	Elective