

**Level 100 (First Semesters)**

<b>Course Code</b>	<b>Course Title</b>	<b>Hrs/sem</b>	<b>Credit Units</b>	<b>Remarks</b>
CHM1230	Inorganic Chemistry	30	2	Core
CHM1241	Organic Chemistry	30	2	“
CSC1201	Intro. To Computer Science	30	2	“
GSP1201	Use of English	30	2	“
MTH1301	Elementary Mathematics. I	45	3	“
PHY1170	Physics Practical I	45	1	“
PHY1210	Mechanics	30	2	“
PHY1220	Elect. & Magnetism	30	2	“
STA1311	Probability I	45	3	“
	<b>TOTAL</b>	<b>315</b>	<b>19</b>	

**Level 100 (Second Semester)**

<b>Course Code</b>	<b>Course Title</b>	<b>Hrs/sem</b>	<b>Credit Units</b>	<b>Remarks</b>
CHM1261	Chemistry Practical	90	2	“
CHM1251	Physical Chemistry	30	2	“
GSP1202	Use of Library, Study Skills and ICT Skills	30	2	“
MTH1302	Elementary Mathematics. II	45	3	“
MTH1303	Elementary Mathematics. III	45	3	“
PHY1180	Physics Practical II	45	1	“
PHY1230	Behaviour of Matter	30	2	“
	<b>TOTAL</b>	<b>315</b>	<b>15</b>	

**Level 200 (First Semester)**

<b>Course Code</b>	<b>Course Title</b>	<b>Hrs/sem</b>	<b>Credit Units</b>	<b>Status/Pre-requisite Course(s)</b>
EGR2207	Principles of Electrical Engineering I	30	2	PHY1220
GSP2204	Foundation of Nigerian Culture, Government & Economy	30	2	Cognate
GSP2206	Peace and Conflict Resolution	30	2	“
*GSP2201	Use of English (DE students only)	30	2	Core
EGR2205	Thermodynamics I	30	2	“
EGR2206	Material Science I	30	2	“
EGR2306	Applied Mechanics	45	3	“
EGR2204	Workshop Practice	90	2	“
EGR2304	Laboratory A	135	3	“
EGR2301	Engineering Mathematics I	45	3	MTH1301
	<b>TOTAL</b>		<b>21 (or 3)</b>	

\*GSP2201 is to be registered only by the DE students making their total credit units 23

**Level 200 (Second Semester)**

<b>Course Code</b>	<b>Course Title</b>	<b>Hrs/sem</b>	<b>Credit Units</b>	<b>Status/Pre-requisite Course(s)</b>
EGR2208	Principles of Electrical Engineering II	30	2	PHY1220
GSP 2205	Logic and Philosophy	30	2	Cognate
GSP2202*	Use of Library, Study Skills and CIT (DE students only)	30	2	Core
EGR2103	Experimental Methods & Analysis	15	1	“
EGR2101	Engineer in Society I	15	1	“
EGR2102	SWEP	45	1	“
EGR2201	Fluid Mechanics I	30	2	PHY1220
EGR2202	Solid Mechanics I	30	2	Core
EGR2203	Engineering Drawing I	60	2	“
EGR2313	Computer programming	45	1	“
EGR2302	Engineering Mathematics II	45	3	MTH1302
EGR2305	Laboratory B	135	3	Core
<b>TOTAL</b>			<b>22 (or 24)</b>	

\*GSP2202 is to be registered only by the DE students making their total credit units 24

**Level 300 (First Semester)**

<b>Course Code</b>	<b>Course Title</b>	<b>Hrs/sem</b>	<b>Credit Units</b>	<b>Status/Pre-requisite Course(s)</b>
EGR3101	Engineer in Society II	15	1	Core
EGR3301	Engineering Mathematics III	45	3	EGR2301
ELE3201	Control Engineering I	30	2	Core
ELE3303	Circuit Theory I	45	3	“
ELE3305	Electronics Engineering I	45	3	“
ELE3307	Electric Machines I	45	3	EGR2208
ELE3309	Laboratory/Projects	135	3	Core
ELE3301	Engineering Electromagnetic I	45	3	EGR2207
MEC3200	Thermodynamics	30	2	Core
<b>TOTAL</b>			<b>23</b>	

**Level 300 (Second Semester)**

<b>Course Code</b>	<b>Course Title</b>	<b>Hrs/sem</b>	<b>Credit Units</b>	<b>Status/Pre-requisite Course(s)</b>
ELE3304	Circuit Theory II	45	3	Core
ELE3306	Computer Engineering I	45	3	“
ELE3202	Power Engineering I	30	2	EGR2208
ELE3310	Laboratory/Project II	135	3	Core
ELE3302	Engineering Electromagnetics II	45	3	ELE3301

ELE3308	Measurements & Instrumentation	45	3	Core
EGR3302	Computational Techniques	30	3	EGR2302
EGR3102	Technical Writing And Presentation	15	1	Core
EGR3311	Computer Applications	45	3	CSC1201
EEP3201	Entrepreneurship and Innovation	30	2	Cognate
EGR3203	SIWES I	3	2	Core
		months		
<b>TOTAL</b>			<b>28</b>	

#### Level 400 (First Semester)

Course Code	Course Title	Hrs/Sem	Credit Units	Status/Pre-requisite Course(s)
EGR4201	Engineering Statistics	30	2	STA1311
EGR4101	Engineer in Society III	15	1	Core
ELE4301	Telecommunications Engineering I	45	3	ELE3301
ECE4201	Data Communication and Networking	30	2	Core
ECE4202	Digital Electronics	30	2	“
ECE4203	Visual Basic Programming	30	2	“
ELE4303	Electronics Engineering II	45	3	ELE3305
ELE4201	Control Engineering II	30	2	ELE3201
ELE4204	Computer Engineering II	30	2	ELE3306
ELE4304	Laboratory/Projects III	45	3	Core
EEP4201	Business Creation and growth	30	2	“
<b>Total</b>			<b>24</b>	

#### Level 400 (Second Semester)

EGR4401	SIWES II	4 Credits	6 Months
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#### 1.2.2.8 Level 500 (First Semester)

Course Code	Course Title	Hrs/Sem	Credit Units	Status/Pre-requisite Course(s)
ECE5301	Computer Architecture	45	3	Core
ECE5201	Electronic Material & Technology	30	2	“
ECE5203	Operating System	30	2	“
ECE5205	System Programming Using C	30	2	“
ELE5200	Computer Laboratory	30	2	EGR2303
ELE5202	Modern Control Theory	30	2	Core
ELE5203	Reliability & Maintainability of			

	Electrical/Electronic Systems	30	2	“
ELE5208	Electronics Engineering III	30	2	ELE4303
ELE5209	Computer Engineering III	30	2	ELE4204
	<b>Total</b>		<b>19</b>	

### Level 500 (Second Semester)

Course Code	Course Title	Hrs/Sem	Credit Units	Status/Pre-requisite Course(s)
ELE5201	Computer Systems & Software Engineering	30	2	EGR3311
ELE5204	Advanced Circuit Techniques	30	2	ELE3304
ECE5202	Integrated Circuit Technology	30	2	Core
ELE5206	Telecommunications Engineering II	30	2	ELE4301
ECE5204	Solid State Electronics	30	2	Core
ELE5218	Microcomputer Hardware & Software Techniques	30	2	
ELE5601	Project	90	6	“
	<b>Total</b>		<b>18</b>	

Plus three electives from the following options:

### ELECTIVES

Course Code	Course Title	Hrs/Sem	Credit Units	Status/Pre-requisite Course(s)
ECE5211	Advanced Topics in Computer Engineering	30	2	Elective
CSC4421	Cryptography & Crypto Analysis	30	4	“
ECE4222	Artificial intelligence/Expert System	30	2	“
CSC4402	Computer Graphics	60	4	
ELE5216	Remote Control and Telemetry	30	2	“
ELE5217	Communication Systems	30	2	ELE4301
ELE5219	Analogue Computer Programming	30	2	Elective
ELE5220	Digital Signal Processing	30	2	“
ELE5221	Industrial Electronics Design	30	2	“
ELE5222	Digital Control Systems	30	2	ELE3201
ELE5223	Advanced Computer Programming	30	2	Elective

**NOTE:** Not all electives are offered in a given session, it depends on the availability of the course lecturer.