

## DEPARTMENT OF ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY

### CURRICULUM

The curriculum of the ND programme consists of three main components. These are

- i. General Studies/Education
- ii. Foundation Courses
- iii. Professional courses

The general education component shall include courses in arts and humanities – English Language, Communication, and history. These are compulsory. Mathematics and science (for non-Science based programmes) social studies – citizenship (the Nigerian Constitution) Political Science, Sociology, Philosophy, Geography, Entrepreneurship studies. The course in citizenship, Entrepreneurship, philosophy of Science and Sociology are compulsory. The general education component shall account for not more than 15% of total contact hours for the programme.

Foundation courses include courses in Mathematics, Pure Science., Computer Science, Technical Drawing, Descriptive Geometry and Statistics, etc. The number of hour will vary with the programme and many account for about 10-15% of the total contact hour depending on the programme.

Professional courses are courses which give the student the theory and practical skills needed to practice his field of calling at the technician/technologist level. These may account for between 60% - 70% of the total contact hours depending on programme.

### ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY: NATIONAL DIPLOMA CURRICULUM TABLE

Below are the minimum requirements from the institution's regulators that qualify for the award of National Diploma in Electrical/Electronic Engineering Technology.

#### 1<sup>st</sup> SEMESTER

Course Code	Course Title	L	T	P	CU	CH
GNS 101	Use of English	2	0	0	2	2
MTH 112	Algebra and Elementary Trigonometry	1	1	0	2	2
SDV 201	Business Entrepreneurship	2	0	0	2	2
MEC 111	Technical Drawing	0	0	4	1	4
MEC 112	Basic Workshop Technology and Practice	1	0	2	2	3
EEC 114	Report Writing	1	0	3	2	4
EEC 112	Introduction to Computer Software	1	0	2	2	3
EEC 117	Computer Hardware I	1	0	2	2	3
EEC 111	Electrical Graphics	1	0	3	2	4
EEC 115	Electrical Engineering Science 1	1	0	2	2	3
TOTAL		11	1	18	19	30

**2<sup>ND</sup> SEMESTER**

Course Code	Course Title	L	T	P	CU	CH
GNS 102	Communication Skills I	2	0	0	2	2
MTH 211	Calculus	1	1	0	2	2
MEC 124	Machine Tools Technology & Practice	1	0	2	2	3
EEC 122	Electrical Power I	1	0	2	2	3
EEC 123	Electrical Machine I	1	0	2	2	3
EEC 124	Electronics I	1	0	2	2	3
EEC 125	Electrical Engineering Science II	1	0	2	1	3
EEC 126	Electrical and Electronic Instrument I	1	0	3	2	4
EEC 128	Telecommunications I	1	0	2	2	3
EEC 129	Electrical Installation of Building	1	0	2	2	3
TOTAL		11	1	17	19	29

**3<sup>RD</sup> SEMESTER**

Course Code	Course Title	L	T	P	CU	CH
GNS 111	Citizen Education	2	0	0	2	2
MTH 202	Logic and Linear Algebra	1	1	0	2	2
EEC 232	Electrical Power II	1	0	2	2	3
EEC 233	Electrical Machines II	1	0	2	2	3
EEC 234	Electronics II	1	0	3	2	4
EEC 236	Electrical and Electronic Instrument II	1	0	2	2	3
EEC 238	Telecommunications II	1	0	2	2	3
EEC 239	Electric Circuit Theory I	1	0	2	2	3
TOTAL		9	1	13	16	23

**4<sup>TH</sup> SEMESTER**

Course Code	Course Title	L	T	P	CU	CH
GNS 202	Communication Skills II	2	0	0	2	2
MTH 122	Trig. And Analytical Geometry	1	1	0	2	2
EEC247	Computer Hardware II	1	0	2	2	3
EEC 242	Electrical Power III	1	0	2	2	3
EEC 244	Electronics III	1	0	3	2	4
EEC 249	Electric Circuit Theory II	1	0	2	2	3
EEC 280	Project	0	0	3	1	3
TOTAL		7	1	12	13	20

L = Lecture Hours

T = Tutorial Hours

P = Practical Hours

CU = Credit Units

CH = Credit Hours