

COURSE OUTLINE FOR NID IN ELECTRICAL AND ELECTRONICS TECHNOLOGY

The National Innovative Diploma (NID) Programme in Electrical and Electronics Technology is designed to produce competent technicians for the National Manpower requirement in electrical and electronics Industry Entry Requirements

The entry requirements into NID in in Electrical and Electronics Technology programme include any of the following:

- 1) Five (5) credit level passes in GCE "O" level or Senior Secondary School Certificate (SSCE) at not more than two (2) sittings. The five subjects must include **English Language, Mathematics, Physics,** and any other two subjects from Chemistry, Biology, Agricultural Science, Geography, Further Mathematics,.
- 2) National Vocational Certificate (NVC) or National Technical Certificate (NTC) in Electrical/Electronics from any recognized Institution.

Curriculum

The curriculum of NID in Electrical and Electronics Technology Programme consists of four (4) main components. These are:-

- 1) General Studies Courses
- 2) Foundation Courses
- 3) Professional/Core Courses
- 4) Supervised Industrial Work Experience Scheme (SIWES)

Curriculum Structure

The structure of the programme is made of four (4) semesters of classroom, laboratory, workshop and practical activities in the institution – and at least 3 months mandatory supervised industrial attachment (SIWES).

Each semester shall have 17 weeks duration made up of:

- 15 weeks of contact learning and practical session
- 2 weeks for registration and examination.

Curriculum Table for NID in Electrical and Electronics Technology

1st Semester

Course Code	Course Title
CSK 501	Basics of Communication
MAT101	Algebra and Elementary Trigonometry
MEC 102	Technical Drawing
COM 101	Introduction to ICT
EET 111	Electrical and Electronics Principles
EET 112	Electronics I

2nd Semester

Course Code	Course Title
MAT 112	Logic and Linear Algebra
EET 121	Circuit Theory I
EET 122	Electrical Machines I
EET 123	Electronics II
EET 124	Electric Power Systems I

3rd Semester

Course Code	Course Title
CSK 502	Project Reports
MAT 221	Trigonometry and Analytical Geometry
EDP 201	Introduction to Entrepreneurship
EET 211	Circuit Theory II
EET 212	Electrical Machines II
EET 213	Telecommunications
EET 214	Electric Power Systems II
EET 215	Electrical and Electronics Maintenance and Repairs
EET 216	Industrial Control (PLC)

4th Semester

Course Code	Course Title
MAT 232	Calculus
EDP 202	Practice of Entrepreneurship
EET 221	Computer Software and Hardware Maintenance
EET 222	Electrical Installation
EET 223	Microcontroller Technology
EET 224	Industrial Electronics and Control
EET 225	Electrical and Electronics Design and Drafting
EET 226	Final Year Project

COURSE OUTLINE FOR NVC IN ELECTRICAL INSTALLATION & REPAIR WORK

The National Vocational Certificate (NVC) Programme in Electrical Installation & Repair Work is designed to produce competent hands with job knowledge and practical skills for a successful career in electrical installation and repair work.

Entry Requirements

The entry requirements into NVC in Electrical Installation & Repair Work programme include any of the following:

1. Basic Education products (Post-JSS) students with requisite credit in junior School Certificate (JSC) or NECO
2. POST Secondary school who are unable to gain access to higher education or IELs, who may have less than 5 credits.

Curriculum

The curriculum of NVC in Electrical Installation & Repair Work Programme consists of three (3) main components. These are:-

1. Foundation Courses
2. Professional/Core Courses
3. Supervised Industrial attachment

Curriculum Structure

The structure of the programme is made of three (3) years curriculum of fifteen (15) courses to be taken over the span on three terms/semesters per year on different levels of difficulties. This includes; classroom, laboratory, workshop and practical activities in the institution – and at least 3 months mandatory supervised industrial attachment

Each semester shall have 15 courses made up of:

Course Code	Course Title
TD	Technical drawing
GMW	General Metal Work
CEI 14	Basic Electricity and Electronics
CEI 16	Introduction to Domestic Electrical Appliances
CEI 11	Domestic Installations
CEI 15	Industrial Installations
CEI 12	Cable Jointing
CEI 13	Winding of Electrical Machines
CSK	English & communication
ENT	Entrepreneurship
PHY	Physics
ICT	Introduction to Computer
VMT	Mathematics
CHM	Chemistry