NITEC IN TECHNOLOGY – ELECTRONICS, COMPUTER NETWORKING & COMMUNICATIONS

Course Code: NTECZ / Plan Code: NTECZ

COURSE OBJECTIVE
This course provides students with the skills and knowledge in installing, maintaining and servicing electronic devices, programmable- and microcontroller- controlled systems to support a broad range of applications.

COURSE STRUCTURE

S/N	Module Details	Module Code	Module Objectives
M1	**Electrical Principles and Measurements** 60 hrs (T) 60 hrs (P) Credits: 7 Prerequisite: Nil	EC2001FP Equivalent Codes EC2101PA EC2105PA EC2101FP EC2101FPR	On completion of the module, students should be able to apply the basic principles of electrical and electronics to connect and test electrical circuits. They should also be able to construct prototype electronic project on printed board.
M2	**Digital Electronics** 60 hrs (T) 60 hrs (P) Credits: 7 Prerequisite: Nil	EC2002FP Equivalent Codes EC2102PA EC2106PA EC2102FP EC2102FPR	On completion of the module, students should be able to interpret, construct, test and troubleshoot basic digital electronic circuits. They should also be able to construct prototype digital electronic circuits.
M3	**Analogue Electronics** 60 hrs (T) 60 hrs (P) Credits: 7 Prerequisite: Nil	EC2003FP Equivalent Codes EC2103PA EC2107PA EC2103FP EC2103FPR	On completion of the module, students should be able to interpret, construct, test and troubleshoot analogue electronic circuits. They should be able to construct prototype analogue electronic projects.
M4	**Computer Networking Principles** 60 hrs (T) 60 hrs (P) Credits: 7 Prerequisite: Nil	EC2004FP Equivalent Code Nil	On completion of the module, students should be able to set up and test wired and wireless Local Area Network for resources sharing, identify the various network topologies and protocol; and troubleshoot network connectivity faults.
M5	**Electronic Communications System** 48 hrs (T) 72 hrs (P) Credits: 6 Prerequisite : Nil	EC3002FP Equivalent Code Nil	On completion of the module, students should be able to apply the knowledge and skills on information transmission and reception in analogue, digital and optical communication for system performance testing and maintenance.

Abbreviations: T – Theory, P – Practical

CREDITS FOR CERTIFICATION
Total of 34 credits from successful completion of 5 modules.

OTHER ENTRY REQUIREMENTS
- Passed *ISC* in Electronics Manufacturing; or
- Passed *ISC* in Wafer Fabrication.

VENUE
ITE College Central, ITE College East, ITE College West

Note:

1) Applicant must be free from colour appreciation deficiency.
2) The training schedule of lessons is subject to change.
3) Depending on demand, not all the modules in the CET *Nitec* in Technology courses will be offered in each intake. Where the modules are offered and there is insufficient enrolment, the classes will be cancelled and a full refund will be given to the affected students.