

# NITEC IN ELECTRONICS, COMPUTER NETWORKING & COMMUNICATIONS

## Core Modules

### Electrical Principles and Measurements

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.

### Digital Electronics

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.

### Analogue Electronics

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.

### Computer Networking Principles

On completion of the module, students should be able to set up and test wired and wireless Local Area Network for resources sharing. They should also be able to identify the various network topologies and protocol; and troubleshoot network connectivity faults.

### Electronic Control System

On completion of the module, students should be able to implement various industrial electronic devices and systems, such as stepper and servo motors, sensors, actuators; and controllers such as microcontrollers and Programmable Logic Controllers.

### Electronic Communications System

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.

### Applied Electronics

On completion of the module, students should be able to apply and integrate the skills and knowledge acquired in the course to set up, integrate and maintain electronic systems.

### Industry Attachment

Students will undergo a 3-month on-the-job programme with electronic company to reinforce the skills and knowledge acquired at the training institute and to develop competencies in other areas not covered in the curriculum.