

NITEC IN ELECTRICAL TECHNOLOGY (POWER & CONTROL)

Core Modules

Residential Installation and Testing

On completion of the module, students should be able to design, install, test and maintain single phase electrical installation and wiring systems in residential premises in compliance with relevant local standards, regulations and codes of practice.

Industrial and Commercial Installation and Testing

On completion of the module, students should be able to design, install, test and maintain three phase electrical installation and wiring systems in industrial and commercial premises in compliance with relevant local standards, regulations and codes of practice.

Digital Communication and Smart Monitoring

On completion of the module, students should be able to maintain data cabling system for digital internet communication as well as smart metering systems in compliance with relevant local standards, regulations and codes of practice.

Power System and Switchboard

On completion of the module, students should be able to perform proper isolation, lockout tag out procedures as well as maintain low voltage electrical switchboards, power monitoring system and temporary electrical supply system in compliance with relevant local standards, regulations and codes of practice.

Specialisation Modules

Sustainable Energy Systems

On completion of the module, students should be able to install, test and/or maintain solar photovoltaic (PV) systems for residential premises, electrical industrial equipment and appliances and electric vehicle (EV) charging equipment and systems in compliance with relevant local standards, regulations and codes of practice.

Smart Living Systems

On completion of the module, students should be able to program, test and maintain smart home control systems in compliance with relevant local standards, regulations and codes of practice.

Electrical Machines and Applications

On completion of the module, students should be able to maintain electrical motor installations including their associated conventional, digital and advanced control systems for various industrial motor applications in compliance with relevant local standards, regulations and codes of practice.

Industry Attachment

Students will be attached to relevant companies to complement and reinforce the skills and knowledge acquired at ITE and to gain professional and working experience.