DIPLOMA IN ELECTRICAL & ELECTRONIC ENGINEERING

Students are introduced to basic Electrical & Electronic Engineering principles with hands-on experiences to emphasise on the areas of Electronic Circuit Analysis, Control Systems, Electrical Machines and Electric Power Systems, as well as Telecommunications. Students are also able to develop the ability to apply ICT knowledge in engineering analysis, simulation and control through various software such as C++ and MATLAB.

Highlights
- Provides sophisticated knowledge in the Electrical & Electronic field
- Practical emphasis through laboratory work and computer-aided design software
- First-hand practical experience through Final Year Project and Internship

Career opportunities
Design, Research or Development Engineer Assistant, Production Engineer, Service Engineer, Technical Support Engineer

Duration
2.5 Years

Offered at
INTI International University
INTAKES: JAN, MAY & AUG

Programme structure
Level 1
- Analogue Electronics
- Circuit Theory
- Engineering Drawing
- English Commercial Skills
- Mathematics 1
- Mathematics 2
- Mathematics 3
- Physics
- Structures & Properties of Materials

Level 2
- Basic Telecommunication System 1
- Basic Telecommunication System 2
- Electric Power Systems & Machines
- Introduction to Control Systems
- Introduction to Digital Electronics
- Introduction to Microprocessors
- Introduction to Power Electronics & Drives
- Professional Development
- Project

Internship

MPU subjects
- Community Service & Co-curriculum
- Critical Thinking for Better Communication / Bahasa Kebangsaan A*
- Malaysian Studies 2 (Local students) / Communication in Malay 1B (International Students)
- Personal Financial Planning

*For Malaysian students who do not have a credit in SPM BM.

Offered at
INTI International College Penang
INTAKES: JAN, APR & AUG

Programme structure
Level 1
- Analogue Electronics
- Circuit Theory & Electronic Devices
- Engineering Drawing
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Mathematics 3
- Physics
- Programme Logic Formulation
- Structured Programming
- Structures & Properties of Materials
- Technical English

Level 2
- Electrical Power Systems & Machines
- Electromagnetic Field Theory
- Introduction to Digital Electronics
- Introduction to Embedded System
- Introduction to Power Electronics & Drives
- Modern Control Systems Engineering
- Object-oriented Programming in Java
- Professional Development
- Project
- Telecommunication System

Internship

MPU subjects
- Community Service & Co-curriculum
- Critical Thinking for Better Communication / Bahasa Kebangsaan A*
- Malaysian Studies 2 (Local students) / Communication in Malay 1B (International Students)
- Personal Financial Planning