BACHELOR OF ENGINEERING (HONS) IN ELECTRICAL & ELECTRONIC ENGINEERING

This programme is designed to train students to be well-versed in mathematical, scientific and ICP principles, master the skills of innovative engineering design and solve engineering problems besides possessing the required managerial skills to manage resources efficiently.

Throughout the programme, students are enhanced with the ability to communicate effectively and assume responsibilities professionally in society through a series of problem-based learning. Graduates from this programme are expected to pursue successful careers and lifelong learning in the field of Electrical & Electronic Engineering.

Highlights

- Programme is designed to meet international standards
- Courses incorporate the needs of industries
- Students study common Year 1 subjects, with the option to choose their majors after Year 1
- Internship to provide students with transferrable skills and working experience
- Guest Lecture Series and industrial visits to expose students to current trends in research and the industry
- Students can specialise in the field of Power Systems, Telecommunications, Microelectronics or Applied Electronics

Career opportunities

- Design, Research or Development Engineer
- Production Engineer
- Project Manager
- Service Engineer
- Technical Support Engineer

Offered at

INTI International University

INTAKES: JAN, MAY & AUG

Duration

4 Years

Programme structure

Year 1

- Electrical Circuits
- Engineering Drawing
- Engineering Materials
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Perspectives
- Engineering Statics
- Introduction to Programming
- University English

Year 2

- Analogue Electronics
- Analytical Methods
- Control System 1
- Digital Electronics
- Electrical Machines
- Embedded System 1
- Object-oriented Programming
- Telecommunication Fundamentals

Year 3

- Digital Video & Sound Technology (Elective)
- Electromagnetic Fields & Waves
- Engineering Design Project
- Industrial Training
- Instrumentation & Measurement
- Operations & Quality Management
- Power Electronic System, Drive & Application (Elective)
- Power System 1

Year 4

- Electrical & Electronic Engineering Design Project
- Project Management & Product Development
- Signals & Systems

Electronic major

- Computer Architecture & Interfacing
- Control System 2 (Elective)
- Digital Design Using HDL (Elective)
- Digital Signal Processing (Elective)
- Embedded Systems 2 (Elective)
- Introduction to Semiconductor & Devices (Elective)
- Mobile Communications (Elective)
- RF & Microwave Circuit Design (Elective)

Electrical major

- Control Systems 2 (Elective)
- Electrical Design & Estimation (Elective)
- High Voltage Engineering
- Power Quality & EMC (Elective)
- Power System 2
- Power System Operation & Control (Elective)
- Sustainable Energy Systems (Elective)
- Utilization of Electrical Energy

MPU subjects

- Asian & Islamic Civilisation (Local students) / Malaysian Studies (International students)
- Bahasa Kebangsaan A*
- Community Service & Co-curriculum
- Entrepreneurship
- Ethics Relations (Local students) / Malay Communication 2 (International students)
- Presentation Skills

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