



UniKL
UNIVERSITI
KUALA LUMPUR

FLEXILEARN

WEEKEND & EVENING CLASSES



Approved by MQA



The Chartered
Institute of Logistics
and Transport

Accredited by
CILTM



JPT/BPP(R/522/6/0021) 07/22, MQA/FA 1624

**BACHELOR OF ENGINEERING
WITH HONOURS**

ELECTRICAL



OVERVIEW

The broad field of electrical engineering involves working with all manners of electronic devices, from pocket calculators to super-computers. Often overlapping with computer engineering, a degree in electrical engineering can open up the door to a career in almost any industry. Since technology is always changing and expanding, the need for electrical engineers is always growing. Through an understanding of the ways electricity is generated and controlled electrical engineers specifically design, develop, and test electrical equipment. Like any other kind of scientist, they must also know how to communicate their ideas to others in their field. A successful electrical engineer possesses not only an understanding of his or her area of concentration, but also a broad grasp of engineering in general. This is why most degree programs offering electrical engineering begin with the fundamentals of engineering itself. Once the student has mastered these fundamentals, they can start to focus on a specialty.

Electrical engineering students learn through a combination of design and lab work. This mix of theoretical and practical application allows students to think things through and then apply their ideas in a variety of real life situations. Students also learn to diagnose problems and develop a variety of solutions for specific engineering problems.

FINANCIAL ASSISTANT

HRDF Claimable
**subject to company levy contribution*

EPF WITHDRAWAL

PTPTN
**subject to PTPTN approval*

CREDIT CARD

ENTRY REQUIREMENT

- STPM or its equivalent with minimum CGPA of 2.50 and a grade of B- in Mathematics and Physical Sciences subjects.
OR
- Matriculation/Foundation in Science and Technology Programme/Foundation in Science programme or equivalent, with a minimum CGPA of 2.50 and a grade of B- in Mathematics and Physical Sciences subjects.
OR
- International Baccalaureate (IB) with a minimum of 24 point and attained a minimum score of 4 in Mathematics and Physical Sciences subjects.
OR
- A-Level with a minimum grade of C in Mathematics and Physical Sciences subjects.
OR
- Diploma in related Engineering/Engineering Technology field from higher education provider recognized by Government of Malaysia with CGPA of 2.50.
OR
- Diploma in related Engineering/Engineering Technology field from higher education provider recognized by Government of Malaysia with CGPA of 2.00 AND at least 2 years working experiences in the related Engineering/ Engineering Technology field.

Other Requirements

- A pass in SPM with credit in Mathematics and no health issues to impede learning.

PROGRAMME STRUCTURE

SEMESTER 1

Fundamental English
Professional English
Mathematics for Engineers 1
Basic Electrical Lab
Tamadun Islam & Tamadun Asia (TITAS) (Local Students)
Pengajian Malaysia 3 (International Students)

SEMESTER 2

Circuit Theory 1
Electronic Devices
Computer Programming for Engineers
Mathematics for Engineers 2

SEMESTER 3

Engineering Mechanics
Circuit Theory 2
Digital Electronic Fundamentals
Engineering Practice and Professionalism

SEMESTER 4

Mathematics for Engineers 3
Mandarin 1
Measurement and Instrumentation
Engineering Drawing & CAD
Electronics Lab

SEMESTER 5

Electronic Circuits
Electrical Machines & Drives
Microcontroller & Interfacing
Professional English 2
Mandarin 2

SEMESTER 6

Statistics for Engineers
Power Systems
Communication System
Power Electronics

SEMESTER 7

Electrical Power Lab
MPU U4 X: Co-Curriculum
Control System Analysis
Electromagnetic Theory
Industrial Safety & Health

SEMESTER 8

Power System Analysis
Electrical Engineering Design
MPU U2: Technopreneurship
MPU U1.1: Hubungan Etnik/Pengajian Malaysia 3
Bahasa Melayu Komunikasi 2 (for International Students)

SEMESTER 9

High Voltage Engineering
Elective 1
Elective 2
Engineers in Society

INTRA INTER SEMESTER 9 & 10

Industrial Training

SEMESTER 10

Power System Control
Engineering Final Year Project 1
Isu-isu Kontemporari Muslim di Malaysia (for Local Muslim Students)
Culture and Lifestyle in Malaysia (Non-muslim/ International Students)

SEMESTER 11

Engineering Final Year Project 2
Innovation Management
Elective 3

*credit transfer or exemption based on prior learning

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