

IMPERIUM

DEPARTMENT OF ENGINEERING



IMPERIUM
INTERNATIONAL COLLEGE
199201012431 (243934-D) / DK281(W)



Why Choose Us?



INTERNATIONAL AFFILIATIONS



CAREER-READY GRADUATES



GLOBAL RECOGNITION



STRATEGIC CAMPUS LOCATION



**AFFORDABLE YET
PREMIUM EDUCATION**



**COMPREHENSIVE
SCHOLARSHIPS & BURSARIES**

Engineering Programmes

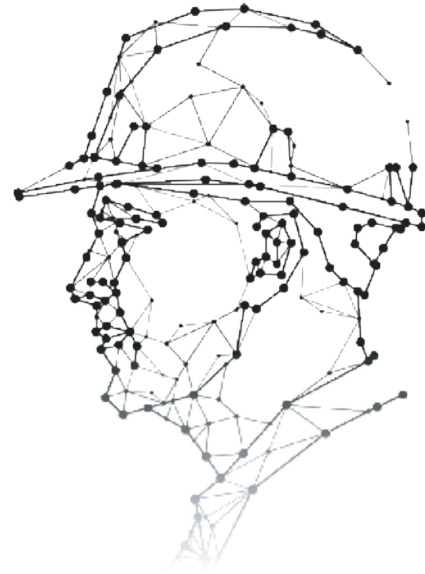
School / Department Overview

Short History



Formerly known as HELP College of Arts and Technology (HELP CAT), Imperium International College successfully completed the takeover of HELP CAT and resumed operations in March 2020. This was also to ensure that as the new official entity, IIC achieves one of its key strategic objectives to provide the best quality education and skill for a wide range of students.

Under the Center for Engineering and Information Technology, Imperium International College offers Diploma in Electrical and Electronic Engineering, Diploma In Mechanical Engineering as well as the Anglia Ruskin University's Bachelor of Engineering (Honours) Mechanical Engineering.



Highest Quality Education Providers



IIC Centre for Engineering Programmes takes pride in being one of the highest quality engineering education providers in the country. The college is proudly associated with a very prestigious university in the UK, Anglia Ruskin University.



Unique Global Exposure



Industry-Relevant



Professional Development

Diploma in Mechanical Engineering

KPT (R3/521/4/0002) (MQA/A7133)

Intake January, April, August

Duration 2 years and a 3 month internship



Programme Overview

Mechanical engineering is the most basic and fundamental of all engineering disciplines. It involves things both in motion and static; for example, ranging from moving fluids to stationary structures.

You will find mechanical engineers working in most, if not all, industries. Mechanical engineers have to work in teams with people from other disciplines.

This work often involves design calculations, checking safety requirements and standards, drawing up specifications and identifying materials for applications.

Entry Requirements

SPM/UEC/O-Levels

Minimum of 3 credits with a pass in English, BM and History or their equivalent – including a credit in Mathematics and one relevant Science/Technical/Vocational subject

Programme Structure

Year 1

Engineering Mathematics I
Engineering Physics
Engineering Drawing I
Statics
Engineering Mathematics II
Engineering Drawing II
Electrical Systems
Materials I
Dynamics
Workshop Practice
Engineering Mathematics III
Technical Communication
Programming in C++
Pengajian Malaysia 2 or Bahasa Melayu Komunikasi 1
Introduction to Entrepreneurial Behaviour

Year 2

Engineering Mathematics IV or Electronic Devices & Circuits
Materials II or Manufacturing Technology
Fluid Mechanics
Strength Of Materials
Engineering Mathematics V or Electrical Circuits & Machines
Mechanics of Machines
Mechatronics
Mechanical Engineering Design
Thermodynamics
Engineering Lab & Computational Techniques
Project Management
Automatic Control
Design Project
Comparative Religion
Community Services

Year 3

Internship (3 months)

Pathway after the Diploma

Anglia Ruskin University programmes
BEng (Hons) Mechanical Engineering

Diploma in Electrical and Electronic Engineering

KPT (R2/523/4/O226) (MQA/A10804)

Intake January, April, August

Duration 2 years and a 3 month internship



Programme Overview

Electrical and Electronic Engineering covers a broad and dynamic area of engineering. It ranges from micro-scale transistors to macro-scale network systems. This is a major sector in Malaysia's economy and it accounts for a significant output of the total manufacturing value in recent years. Future career spans a wide sector – from aerospace to biomedical to communications, computer to robotics, microelectronics and more. The Diploma in Electrical and Electronic Engineering will prepare graduates to be competent and much sought-after technologists to meet the challenges of a very fast-moving industry.

Entry Requirements

SPM/UEC/O-Levels

Minimum of 3 credits with a pass in English, BM and History or their equivalent – including a credit in Mathematics and one relevant Science/Technical/Vocational subject

Programme Structure

Year 1

Engineering Mathematics I
Engineering Physics
Engineering Drawing I
Electrical Systems
Engineering Mathematics II
Electronics Instrumentation & Measurement
Technical Communication
Circuit Analysis
Programming in Java
Engineering Mathematics III
Programming in C++
Analogue Electronics I
Introduction to Entrepreneurial Behaviour
Pengajian Malaysia 2 or Bahasa Melayu Komunikasi 1

Year 2

Engineering Mathematics IV or Data Structure & Algorithm
Analogue Electronics II
Introduction to Communication Systems
Engineering Mathematics V or Electromagnetic Theory
Signals & Systems
Digital Electronics
Solid State Devices
Communication Electronics
Electrical Machines & Power Systems
Microprocessors
Power Electronics
Design Project
Comparative Religion
Community Services
Automatic Control

Year 3

Internship (3 months)



Bachelor of Mechanical Engineering 3+0

in collaboration with Anglia Ruskin University

KPT (R/523/6/0082) (MQA/FA4523)

Intake January, June and September

Duration 3 years and a 4 month internship



Programme Overview

This programme will equip graduates with the knowledge and skills necessary to operate as competent practitioners within the field of mechanical engineering. The modules will provide the students with a thorough understanding of the wide areas in mechanical engineering today, from computer modelling to engineering materials.

Entry Requirements

Into Year 1

- STPM / A-Levels 2 Principal passes, including Mathematics and one Science subject
- A-Levels with minimum pass in Mathematics and Physics
- Matriculation CGPA 2.0 and credit in SPM Mathematics and Physics or equivalent
- Foundation in Science or equivalent CGPA 2.0 and credit in SPM Mathematics and Physics or equivalent
- Unified Examination Certificate (UEC) B in 5 subjects, including Mathematics and one Science subject
- Diplomas (Level 4 of MQF) Diploma in Electrical/Electronic Engineering (Level 4 of MQF), Diploma in Mechanical Engineering (Level 4 of MQF) or equivalent with CGPA 2.5. CGPA 2.0 to 2.4 to be assessed internally

Into Year 2

- Diploma in Electrical and Electronic Engineering (IIC)
- Diploma in Mechanical Engineering (IIC) or equivalent CGPA 2.0

*Graduates from this programme will not be eligible to register with the Board of Engineers Malaysia

Programme Structure

Year 1

IT, Communications and Research Skills
Introduction to Engineering Materials
Manufacturing
Introduction to Engineering Mechanics
Introduction to Mechatronics
Electronic Principles for Robotics
Mathematics for Engineers 1
Hubungan Etnik / Bahasa Melayu Komunikasi 2
Tamadun Islam dan Tamadun Asia / Pengajian Malaysia 3
Engineering Drawing / Workshop Practice

Year 2

Dynamics and Fluid Mechanics
Mathematics for Engineers 2
Statistics and Process Quality Assurance
Engineering Design
Applied Mechanics
Materials and Processes
Computer Aided Solid Modelling
Workshop Practice / Electrical Circuits and Machines
Malaysia Economy
Strategic Planning for Entrepreneurs
Community Services

Year 3

Project Management for Technologists
Computer Aided Engineering
Vibration and Control
Research Methods and Individual Project
Modelling and Simulation for Operations Management
Thermofluids
Internship (4 months)

Assessment

A combination of coursework, projects and final exam.

Message from the Head of Centre



Cheok Fah Than

Imperium's Department of Engineering provides affordable pathways for people to achieve a good quality engineering education and build the essential skill sets to face and overcome challenges in their future career.

BE (Mech), MEngSc (Malaya), PhD (WPI)

IMPERIUM INTERNATIONAL COLLEGE

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