BACHELOR OF ENGINEERING (HONS) IN MECHANICAL ENGINEERING

Students will be prepared for careers in energy transfer & analysis, machine & electromechanical designs, manufacturing & production, ergonomics & man-machine symbiosis, environmental design & analysis as well as new technologies such as robotics and numerical control machining.

The Mechanical Engineering discipline expects its alumni, who, after being involved in the industry or academia for at least 4 years:

• To assume positions of technical expertise in mechanical engineering and related fields
• To remain committed to professional development

You will also learn to develop business, interpersonal and managerial skills to progress quickly into responsible positions in mechanical or manufacturing industries and their supply chains.

Highlights

• Students will receive an additional certificate of recognition from Coventry University, UK
• The programme receives full accreditation by the Engineering Accreditation Council (EAC) Malaysia under the Washington Accord.

The Washington Accord, signed in 1989, is an international agreement among bodies responsible for accrediting engineering degree programs. It recognizes the substantial equivalency of programs accredited by those bodies and recommends that graduates of programs accredited by any of the signatory bodies be recognized by the other bodies as having met the academic requirements for entry to the practice of engineering, normally of four years duration. Washington Accord Signatories have full rights of participation in the Accord; qualifications accredited or recognized by other signatories are recognized by each signatory as being substantially equivalent to accredited or recognized qualifications within its own jurisdiction.

• Course incorporates the needs of industries
• Industrial lectures by leaders of the engineering industry
• Students gain industrial experience through industry visits and internship
• Students are equipped with transferable skills and industrial experience after completion of the course
• Recognized by Board of Engineers Malaysia
• Member of Institution of Mechanical Engineers (iMechE) Student Chapter

Career opportunities

Mechanical / Manufacturing Engineer, Oil / Gas Engineer, Automotive Engineer, Design Engineer, Technical Support Engineer

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
• Analytical Methods
• Control System 1
• Electrical Machines
• Engineering Dynamics
• Fluid Mechanics 1
• Fluid Mechanics 2
• Machine Drawing
• Solid Mechanics
• Thermodynamics 1
• Thermodynamics 2

Year 3
• Design of Machine Elements
• Engineering Design Project
• Engineering Economics
• Heat Transfer
• Industrial Training
• Instrumentation & Measurement
• Manufacturing Processes
• Mechanics & Materials
• Operations & Quality Management

Year 4
• Engineering Elective 1
• Engineering Elective 2
• Final Year Project
• Professional Practice
• Project Management & Product Development
• Sustainable Energy Systems
• Vibration

Offered at

INTI International University
MF/PS/AT771/IO/1018

INTAKES: JAN, MAY & AUG

Duration

4 Years

*For Malaysian students who do not have a credit in SPM BM.
**Offering of electives, please consult the Head of Programme.
General elective subjects
- Air Conditioning & Refrigeration
- Computational Thermofluids
- Embedded Systems 1
- Ergonomics
- Finite Element Method
- Hydraulics & Pneumatics
- Manufacturing Systems
- Robotics

Oil & Gas elective subjects
- Air Conditioning & Refrigeration
- Computational Thermofluids

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