BACHELOR OF ENGINEERING (HONS) IN MECHANICAL ENGINEERING

Students will be prepared for careers in energy transfer and analysis, machine and electromechanical designs, manufacturing and production, ergonomics and man-machine symbiosis, environmental design and 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**

- Program follows the guidelines set by the Engineering Accreditation Council (EAC)
- 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
- Accredited by Board of Engineers Malaysia

**Career opportunities**

Mechanical / Manufacturing Engineer, Oil / Gas Engineer, Automotive Engineer, Design 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**
- 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

Elective subjects
• Air Conditioning & Refrigeration
• Computational Thermofluids
• Embedded Systems 1
• Ergonomics
• Finite Element Method
• Hydraulics & Pneumatics
• Manufacturing Systems
• Robotics

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

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

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