INTI International University & Colleges™
YOUR FUTURE BUILT TODAY

new

BACHELOR OF TECHNOLOGY IN INTELLIGENT PROCESS AND PRODUCT DESIGN

BACHELOR OF TECHNOLOGY IN INTELLIGENT PROCESS AND PRODUCT DESIGN

The Bachelor of Technology in Intelligent Process and Product Design programme is a multidisciplinary programme that combines engineering, computer science, and information management principles to teach students about intelligent systems, process design, and product development.

The programme emphasises designing intelligent systems and preparing students to optimise complex processes and products using machine learning, data analytics, robotics, the Internet of Things (IOT), and control systems. This enables students to develop efficient, sustainable, and cost-effective industrial processes and products.

The programme also focuses on business management and entrepreneurship, equipping students with the necessary skills to become successful innovators and entrepreneurs in the technology industry.

Highlights
- Accredited by the Malaysia Board of Technologists (MBOT)
- Prepares students to execute projects related to the Fourth Industrial Revolution (IR4.0)
- Provides an understanding of smart manufacturing processes and integrates robotics technology across a wide range of industries
- Combines various types of intelligent manufacturing processes, automation control technologies, prototyping, and entrepreneurship skills
- Develops skills at all levels of the manufacturing process and development lifecycle

Career opportunities
Automation Engineer, Artificial Intelligence (AI) Engineer, Machine Learning Engineer, Process Engineer, Produc Designer, Quality Control Engineer, Robotics Engineer.

Programme Structure
Year 1
- Code of Ethics
- Data Structure and Algorithms
- Drawing
- Economics and Technopreneurship
- Electrical Circuits
- Introduction to Programming
- Mathematics
- Properties of Materials
- Short Range Communication
- Single Chip Microcomputer and Sensor
- University English

Year 2
- 3D Printing Technology
- Control System
- Database System Concepts
- Design Methodology
- Electronic Design
- Embedded Interface Technology
- Ergonomics
- Integrated Design Project
- Internet of Things: Recognition Technology
- Mechanics
- Product Planning and Scheduling
- Sensor Micro-Operating System

Year 3
- Advanced 3D Modelling
- Intelligent Product Development and Design
- Intelligent Sensing and Control System
- Internet of Things and Design
- Mechanical Design
- Project Management
- Rapid Prototyping
- Robot Technology
- Final Year Project 1
- Final Year Project 2
- Industrial Training

MPU subjects
1. Compulsory
- Appreciation of Ethics and Civilisations (Local students) / Communicating in Malay 2 (International students)
- Philosophy and Current Issues
- Integrity and Anti-Corruption
- Co-curriculum
- Bahasa Kebangsaan A*

2. Electives (choose one)
- Design Thinking
- Corporate Social Responsibility
- Presentation Skills

Offered at
INTI International University
(N/0720/6/0002)(07/28)(MQA/PA15494)

Intake(s)
MAY & AUG

Duration
3 Years

Programme Accredited by:

MBOT
LEMBAGA TEKNOLOGIS MALAYSIA
MALAYSIA BOARD OF TECHNOLOGISTS

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

ENTRY REQUIREMENTS

STPM	–	Full passing in a minimum of 2 subjects with Grade C (a minimum of CGPA 2.0)
A-Level	–	Full passing in a minimum of 2 subjects
UEC	–	Minimum of Grade B in 5 subjects
Local Matriculation/Foundation	–	Minimum of CGPA 2.0
Diploma/Advanced Diploma/Degree/Equivalent	–	Minimum of CGPA 2.0

Other qualifications deemed equivalent to STPM / A-Level by the Malaysian Qualifications Agency

ENGLISH LANGUAGE REQUIREMENTS
- TOEFL score of 500; OR IELTS score of 5.0; OR its equivalent

In the event that the English language requirements are not met, students may be required to undertake additional English module(s) prior to or concurrently with the programme, based on the University's decision.
Note: International students are subject to entry requirements of their own country's academic qualification.

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