

new

BACHELOR OF TECHNOLOGY IN INTELLIGENT MANUFACTURING



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The Bachelor of Technology in Intelligent Manufacturing programme incorporates advanced manufacturing technologies, including robotics, automation, artificial intelligence, and data analytics, into the manufacturing process. It places great emphasis on hands-on learning and equips students with a comprehensive understanding of modern manufacturing technologies and the manufacturing industry.

The programme encompasses manufacturing principles, production planning and control, intelligent system design and development, industrial automation and control, data analysis, and optimisation techniques.

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, Data Analyst, Maintenance Engineer, Manufacturing Engineer, Process Engineer, Project Manager, Quality Control Engineer, Research and Development Engineer, Robotics Engineer, Technical Sales 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

- Automation and Control Technologies
- Control System
- Database System Concepts
- Embedded Interface Technology
- Integrated Design Project
- Intelligent Sensing and Control System
- Internet of Things: Recognition Technology
- Material Handling
- Mechanics
- Production Planning and Scheduling
- Project Management
- Sensor Micro-Operating System

Year 3

- Identification Technologies
- Intelligent Product Development and Design
- Internet of Things: System Integration
- Long Range Communication
- Manufacturing Systems
- Quality Assurance and Quality Control
- Robot Technology
- Supply Chain Management
- 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/0720/6/0001)(07/28)(MQA/PA15493)

Intake(s)

MAY & AUG

Duration

3 Years

Programme Accredited by:



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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