new

BACHELOR OF TECHNOLOGY (HONOURS) DATA SCIENCE

In a world driven by data, this cutting-edge programme offers a unique opportunity to set you on a path to become a technology-savvy data scientist. Rooted in a robust set of objectives designed to mould you into a versatile and highly skilled professional, our approach encompasses various dimensions.

This includes a strong emphasis on Professional Knowledge, allowing you to delve deep into computer science principles, professional standards, and best practices – the very cornerstones of your expertise in data science. Furthermore, our curriculum places significant value on Communication and Leadership, the cultivation of Technical Excellence, the refinement of Digital Proficiency, and the nurturing of a culture of Innovation and Lifelong Learning, all of which lie at its core.

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Highlights

- Incorporates substantial interactive components and internationalisation elements
- Modules related to innovation in advanced technology and innovative techniques are integrated into the programme
- Unique specialisations focus on the application of data science to emerging technologies:
  - Internet of Things (IoT)
  - Robotics
  - Big Data Analytics
  - FinTech

Career Opportunities:

Data Analyst, Data Engineer, Database Administrator, Machine Learning Engineer, Data Scientist, Data Architect, Statistician, Business Analyst, Data and Analytics Manager.

Offered at

INTI International University
(N/0613/6/0032)(07/28)(MQA/PA16185)

Intake(s)

MAY & AUG

Duration

3 years

Programme Structure

Common Core Modules

- Data Communications and Networking
- Data Structures and Algorithms
- Information Security and Ethics
- Introduction to Database Systems
- Mathematics for Computing
- Object-Oriented Programming
- Programming Techniques
- Quantitative Methods
- Systems Analysis and Design

Discipline Core Modules

- Artificial Intelligence
- Calculus and Linear Algebra
- Data Mining and Predictive Analytics
- Data Warehouse
- Introduction to Data Analytics
- IT Project Management
- Machine Learning
- Regression Analysis
- Software Engineering
- Time Series and Forecasting
- User Experience (UX) Design
- Web Programming

Specialisation Modules

1. Internet of Things (IOT)

- Cloud Security
- Embedded Systems
- Internet of Things (IoT) Infrastructure
- Introduction to Cloud Computing and Virtualisation
- Introduction to Internet of Things (IoT)

2. Big Data

- Big Data Analytics
- Business Intelligence
- Knowledge Management
- Natural Language Processing
- Social, Web and Mobile Analytics

3. Robotics

- Embedded Systems
- Internet of Things (IoT) Infrastructure
- Introduction to Internet of Things (IoT)
- Introduction to Robotic Programming
- Robotics

4. Fintech

- Advanced Financial Decision Making
- Blockchain Technology
- Business Intelligence
- Financial Management
- FinTech

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

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
- Community Service
- Bahasa Kebangsaan A*

2. Elective (choose one)

- Design Thinking
- Corporate Social Responsibility
- Presentation Skills

Final Year Project

- Project I
- Project II

Internship

Programme Accredited by:

MBOT
LEMBAGA TEKNOLOGIS MALAYSIA
MALAYSIA BOARD OF TECHNOLOGISTS

ENTRY REQUIREMENTS

Foundation: Pass in Foundation studies or equivalent with a minimum CGPA 2.0 and credit in below subject(s) in SPM:
(a) Additional Mathematics; or
(b) Mathematics and any one of the Science, Technology or Engineering subjects.

STPM: Pass STPM in science stream or equivalent with minimum Grade C (GPA 2.00) in 1 Mathematics and 1 Science or ICT subject; OR passed STPM with a minimum of Grade C (GPA 2.00) in any 2 subjects and credit in below subject(s) in SPM:
(a) Additional Mathematics; or
(b) Mathematics and any one of the Science, Technology or Engineering subjects.

Diploma: (i) A Diploma in Computer Science, Software Engineering, Information Technology, Information Systems or equivalent with a minimum CGPA of 2.5 and a credit in Additional Mathematics at SPM level or its equivalent.
Note: Candidates with a CGPA below 2.5 but above 2.0 with a credit in Additional Mathematics at SPM level may be admitted subject to an internal rigorous assessment process.

(ii) Any other Diploma in Science and Technology with a minimum CGPA of 2.75 with a credit in Additional Mathematics at SPM level or its equivalent may be admitted subject to an internal rigorous assessment process.
Note for (i) and (ii):
(a) Candidates without a credit in Additional Mathematics at SPM level or its equivalent may be admitted if the Diploma programme contains Mathematics subjects that are equivalent to Additional Mathematics at SPM level.
(b) Candidate with a credit in computing related subjects at SPM or STPM level or its equivalent may be given preferential consideration.

A-Level: A minimum of 2 Grade D and credit in below subject(s) in SPM or equivalent:
(a) Additional Mathematics or
(b) Mathematics and 1 of the Science, Technology or Engineering subject.

UEC: 5Bs (including Additional Mathematics or Mathematics and one of the Science, Technology or Engineering subject).

Others: Please refer to INTI International University.

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