# MAHSA UNIVERSITY
DU044(B)

BACHELOR OF INFORMATION TECHNOLOGY (HONS)

KPT/JPS (N/482/6/0169) (MQA/PA9326) 06/23

FACULTY OF BUSINESS, FINANCE AND INFORMATION TECHNOLOGY

"

"Progress is possible only if we train ourselves to think about programs without thinking of them as pieces of executable code."

– Edsger W. Dijkstra

"

OVERVIEW

The Bachelor of Information Technology (Hons) is a three-year programme designed in consultation with a panel of experts and has been approved by the Malaysian Qualifications Agency (MQA). The programme is designed uniquely with four different areas of specialisation: i.e. Data Management, Game Computing, Mobile Computing and Network Computing. Students can choose their preferred specialisation to develop the necessary knowledge and industry-specific technological skills.

Upon completion of six semesters, students will proceed to industrial training at the end of Year 3. At the end of the training, the students are required to submit a report while the industries are required to evaluate and report on the students' job performance. This industrial training is necessary to meet the requirements of the accreditation by MQA. Students gain real work experience in writing reports on technical works/projects. This programme not only prepares students with advanced theoretical and practical skills but also exposes them to the strategical planning and management of projects.

In the final year, the research project in this programme will enable students to take on R&D with commercialization, develop the academic and practical aspects of the chosen area of study and reinforce independent learning skills. This is where students will demonstrate higher level; critical thinking analysis and solutions development skills which will enhance their employability.

PROGRAMME
STRUCTURE

Specialisation
(Choose one)

• Database Management
• Mobile Computing
• Games Computing
• Network Computing

Year 1
• Business Statistics
• Computer Architecture & Organization
• Computer Networks
• Database Management
• Data Structures & Algorithms
• Discrete Mathematics
• English
• Environmental Management & Technology
• Information Technology Fundamentals
• Information Management
• Introduction to Programming
• Operating Systems
• Mathematics for Computations

Year 2
• Computer Ethics and Cyber Law
• Fundamentals of Computer Graphics
• Fundamentals of Mobile Computing
• Human Computer Interaction
• Information Security
• Integrative Programming
• Research Methodology
• Web Technologies

Database Management
• *Big Data Analysis*
• *Business Processes with SAP ERP Systems*
• *Database Architecture & Administration*
• *Data Warehousing and Mining*

Games Computing
• *Artificial Intelligence for Game Developers*
• *Game Technology*
• *Virtual Reality*
• *3D Imaging and Film Effects*

Mobile Computing
• *Distributed Computing System*
• *Mobile Applications Development*
• *Mobile Technology*
• *Wireless Communication*

Network Computing
• *Ethical Hacking*
• *Network Protocols*
• *Routing and Switching*
• *TCP/IP Programming*

Year 3
• Industrial Training
• Research Project

Database Management
• *Database Technologies*
• *SQL Programming*

Mobile Computing
• *Mobile Game Development*
• *XML and WEB services*

Games Computing
• *Multimedia and Animation*
• *Prototyping and Iterating Game Designs*

Network Computing
• *Adhoc & Sensor Network*
• *High Speed Network*

General Modules
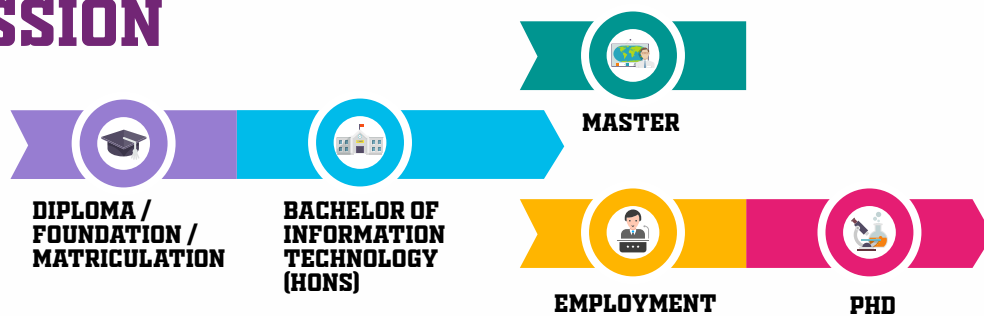• Community Service
• Entrepreneurship
• Youth Development

LOCAL STUDENTS:
• Tamadun Islam dan Tamadun Asia
• Hubungan Etnik

INTERNATIONAL STUDENTS:
• Malaysia Studies
• Bahasa Melayu Komunikasi 2

PROGRESSION
PATHWAY

DIPLOMA / FOUNDATION / MATRICULATION

BACHELOR OF INFORMATION TECHNOLOGY (HONS)

MASTER

EMPLOYMENT

PHD

REQUIREMENTS

ACADEMIC QUALIFICATION	REQUIREMENTS
Diploma - **Science & Technology** - **Business Administration**	Pass in any related field with min. CGPA 2.5 and pass SPM with credit in Mathematics.
Matriculation / Foundation	Pass in any related field with min. CGPA 2.0 and pass SPM with credit in Mathematics.
STPM	Pass with min. CGPA 2.0 in any two (2) subjects and pass SPM with credit in Mathematics.
Other	Recognised Malaysian qualifications or their equivalent.
English Requirement	IELTS: 5.0 | TOEFL: 500 | MUET: BAND 4

CAREER
OPPORTUNITIES

- Chief Technology Officer (CTO) • **Computer Network Architect** • Computer Support Specialist
- **Database Administrators** • Information Systems Analyst • **IT Application Developer**
- IT Auditor • **IT Helpdesk Manager** • IT Project • **Manager** • IT Sales Manager
- **Network Administrator** • Network Engineer • **Programme Analysts**
- Technical Support Manager • **Telecommunication Specialist** • Systems Analyst
- **System Administrator** • Systems Consultant • **Web Developers**

MAHSA360

At MAHSA University, we provide our students with the opportunity to develop quality skills and understanding that go beyond their field of study which will prepare them for their next leap upon graduation.

MAHSA 360 is our specially designed ecosystem that works to ensure every student is nurtured and supported throughout their student journey.

MAHSA'S PASSPORT
TO SUCCESS

Professional Industry-Driven Education (P.R.I.D.E) is MAHSA University's specially designed education pathway that give students the best of both academic and professional certifications. Students have the opportunity to gain professional skills through various programmes from MAHSA's collaborations with internationally recognised professional bodies. P.R.I.D.E increases the employability rate of our fresh graduates and puts them on par with the rest in the professional world.

MASTERCLASS

Students of this programme are eligible to gain add-on certification in Masterclasses. There are more than fifty Masterclasses to choose from, and all are designed to further enhance the student's employability, in line with the Industrial Revolution 4.0.
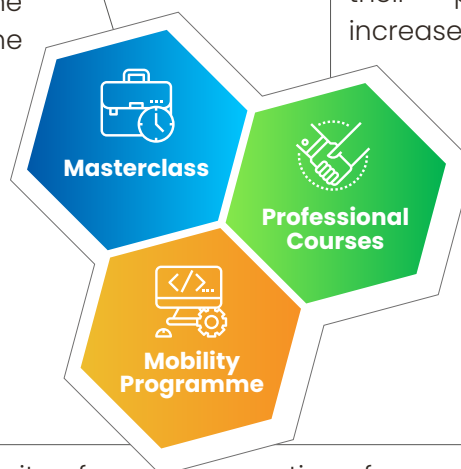
PROFESSIONAL COURSES

Through MAHSA's collaboration with internationally recognised professional bodies, students will earn certifications that will enhance their professional skills and increases their employability rate.

MOBILITY PROGRAMME

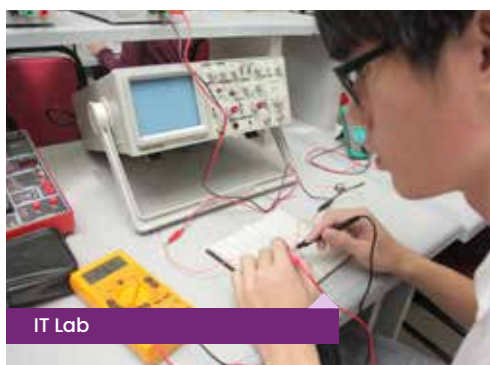This is a unique opportunity for students to study abroad for up to one year. This programme lets students experience different cultures and practices from around the world. Ask us about our university partners in over fifty different countries.

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UNIVERSITY
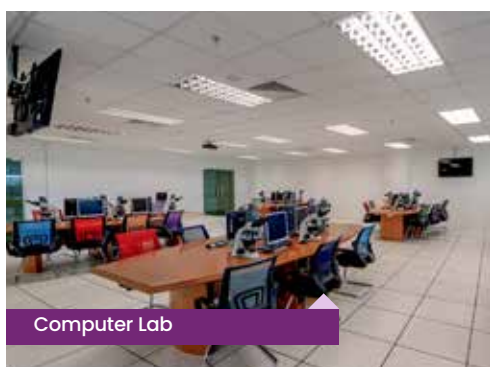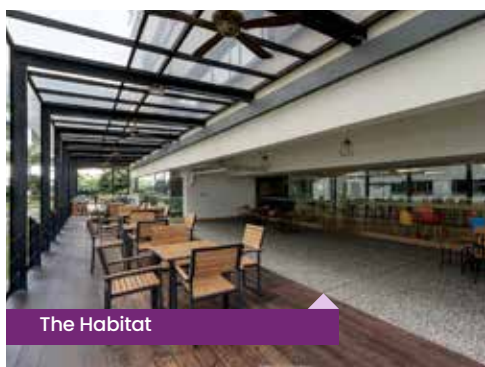# BE MORE

IT Lab

Residences

Computer Lab

The Habitat

Library

iMore e-Sports Arena

Contact us
1800 88 0300

www.mahsa.edu.my

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Bandar Saujana Putra,
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Selangor, Malaysia

☎ 1800-88-0300

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🖨 +603-7931 7118

✉ marketing@mahsa.edu.my

This programme is also offered at
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(MAHSA University City Campus)
1st Floor, Block A, Jalan Ilmu,
59100, Kuala Lumpur
Tel: +603-7965 2555

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