

# BACHELOR OF INFORMATION TECHNOLOGY (HONS)

JPT/BPP (N/482/6/0169) 06/23



MAHSA  
UNIVERSITY

## FACULTY OF ENGINEERING 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

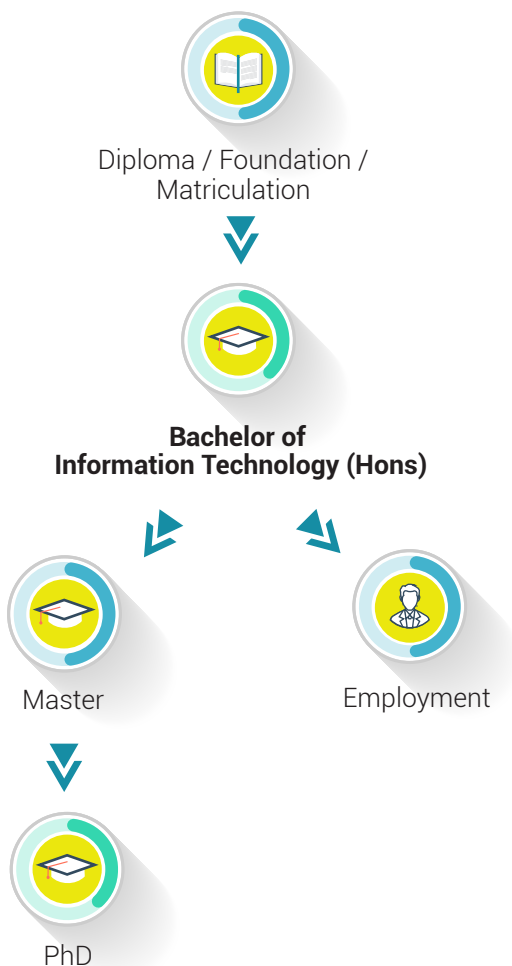


The Bachelor of Information Technology (Hons) is a three-year programme designed in consultation with a panel of experts and has been approved by the Malaysian Qualifications Agency (MQA). The programme is designed uniquely with four different areas of specialisation: i.e. Data Management, Game Computing, 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.

## PROGRESSION PATHWAY



## MAHSA 360



During their time at MAHSA University, we want to provide all of our students with the opportunity to develop qualities, skills and understanding that go beyond the disciplinary expertise and prepare them for the next steps in their chosen careers.

MAHSA360 is the ecosystem that works to ensure every single student is nurtured and supported throughout the student journey.

# PROGRAMME STRUCTURE

## Specialisation *(Choose one)*

Database Management	Games Computing
Mobile Computing	Network Computing

## YEAR 01

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 03

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

## YEAR 02

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

## GENERAL MODULES

Community Service  
 Entrepreneurship  
 Youth Development

### Local Students

Hubungan Etnik  
 Tamadun Islam dan Tamadun Asia

### International Students

Bahasa Melayu Komunikasi II  
 Malaysian Studies

# ENTRY REQUIREMENTS

## Academic Qualification

Diploma  
 - Science & Technology  
 - Business Administration

Matriculation / Foundation

STPM

Other

## Requirements

Pass in any related field with min. CGPA 2.5 and pass SPM with credit in Mathematics.

Pass in any related field with min. CGPA 2.0 and pass SPM with credit in Mathematics.

Pass with min. CGPA 2.0 in any two (2) subjects and pass SPM with credit in Mathematics.

Recognised Malaysian qualifications or their equivalent.

MUET	IELTS	TOEFL
Band 4	6.0	550

## English Proficiency

# 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



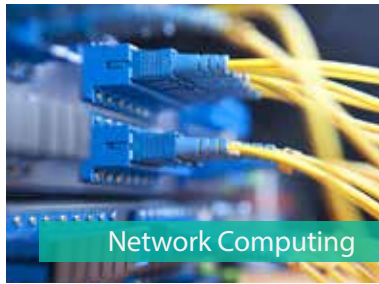
Library



The Habitat



Student Success Centre



Network Computing



Software Programming



Computer Lab



Football Field



Mobile Development



Residences

Contact us  
**1800 88 0300**

[marketing@mahsa.edu.my](mailto:marketing@mahsa.edu.my)  
[www.mahsa.edu.my](http://www.mahsa.edu.my)



# MAHSA UNIVERSITY

## BANDAR SAUJANA PUTRA CAMPUS

Jalan SP2, Bandar Saujana Putra, 42610 Jenjarom, Selangor, Malaysia

Hotline : +603-5102 2200

### MAHSA UNIVERSITY RECRUITMENT CENTRE (MURC):

#### MURC Penang

441-1-19, Plaza Pulau Tikus, Jalan Burma,  
10350 Georgetown, Pulau Pinang

#### MURC Klang

Tingkat 4 Plaza Blossom, No.56 & 57, Jalan Tengku Kelana,  
41000 Klang, Selangor

#### MURC Melaka

No 3-1, Jalan Komersial Takh 3, Taman Takh  
Ayer Keroh, 75450 Melaka

#### MURC Kuching

No.191, Lot 1508, Ground & 1st Floor, Wisma Tek  
93350 Kuching, Sarawak

#### MURC Kota Bharu

259 Tingkat 2 Jalan Kebun Sultan, Seksyen 8  
15300 Kota Bharu, Kelantan