MAHSA UNIVERSITY

DU044(B)

Faculty of Engineering, Built Environment
& Information Technology

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BACHELOR OF INFORMATION TECHNOLOGY (HONS) OPEN DISTANCE LEARNING MODE (ODL)

PROGRAMME OVERVIEW

Bachelor of Information Technology (Hons) program typically provides students with a comprehensive understanding of various aspects of information technology. The program is designed to equip students with both theoretical knowledge and practical skills necessary for a successful career in the rapidly evolving field of IT.

The program aims to produce well-rounded IT professionals capable of tackling the challenges of the dynamic and ever-expanding field of information technology. The combination of theoretical knowledge, practical skills, and industry exposure prepares graduates for diverse and rewarding career paths in the IT sector.

Career Opportunities

Jobs directly related to your degree include:

- System Analyst
- Database Administrator
- Web Developer
- Software Developer
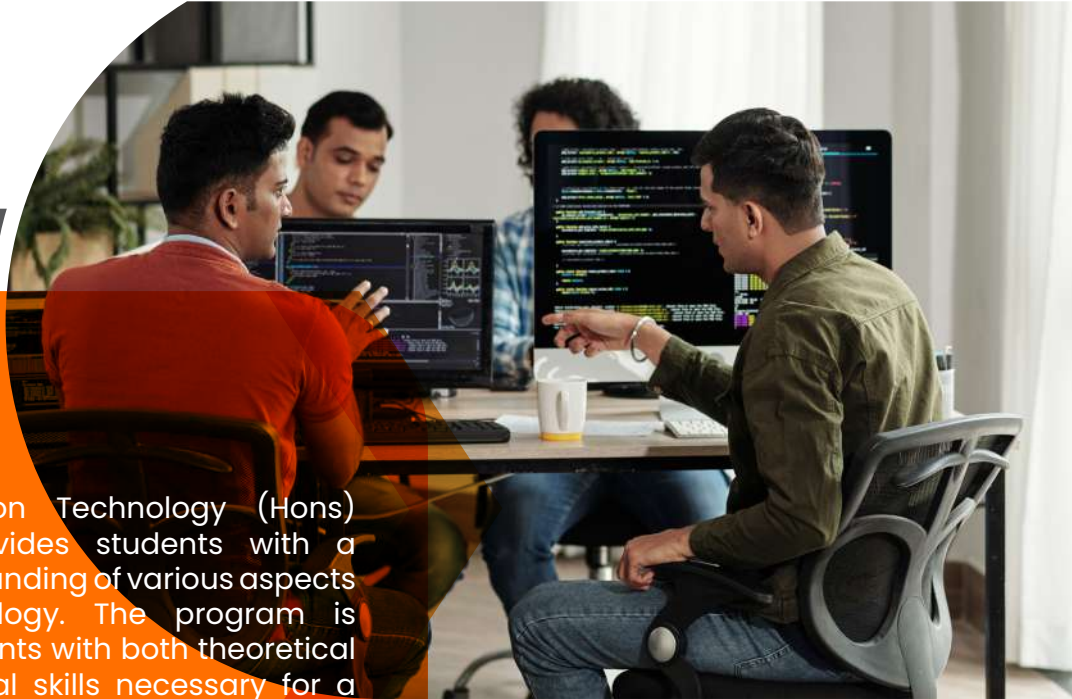- IT Executive/Consultant

Entry Requirements

Although admission to the programme requires no prior knowledge in Information Technology, applicants must normally have at least one of the following:

1. STPM or equivalent with at least grade c (NGMP 2.0) in 2 subjects; and honors in mathematics subjects at spm level or grade c (NGMP 2.0) STPM; or
2. STAM (jayyid rank) and honors in mathematics subjects at SPM level; or
3. Matriculation/foundation/foundation with a minimum grade of 2.00 and honors in mathematics at the SPM level; or
4. UEC by obtaining at least grade b in 5 subjects including mathematics; or
5. Diploma in computer science or software engineering or information technology or information systems or equivalent with at least 2.50 PNGK and honors in mathematics at SPM level.
6. Diploma in science and technology or business studies with a minimum grade of 2.50 is acceptable subject to a rigorous internal assessment process and honors in mathematics subjects at the SPM level; or
7. A-level by passing two (2) subjects and obtaining credit in mathematics at SPM level or equivalent (if not achieving the minimum grade at a-level level)
8. SAM / AUSMAT / HSC: pass with minimum 50% in 5 subjects including mathematics and pass in mathematics or additional mathematics at SPM / o-level
9. Other qualifications recognized as equivalent by the university senate or the Malaysian government.

Note: candidates who obtain a PNGK less than 2.50 but above 2.00 with honors in mathematics subjects at SPM level may be admitted subject to a strict internal assessment process. The honors requirement in mathematics at the SPM level for candidates (1), (3), (5) and (6) can be waived if the qualification contains a mathematics subject and its achievement is equivalent to/more than the credit requirement of the mathematics subject at the SPM level.

International students: test of english as a foreign language (TOEFL) score 500 or international english language testing system (IELTS) score 5.0 or MUET band 3 or equivalent.

YEAR 1 SEMESTER 1
- Introduction to Programming
- Fundamentals of Information Technology
- Discrete Mathematics
- English
- Business Statistics
- Tamadun Islam dan Tamadun Asia
- Malaysian Studies 3

YEAR 1 SEMESTER 2
- Information Management
- Computer Architecture & Organization
- Operating Systems
- Data Structures & Algorithms
- Environmental Management & Technology
- Hubungan Etnik
- Bahasa Melayu Komunikasi 2

YEAR 2 SEMESTER 1
- Computer Networks
- Database Management System
- Mathematics for Computations
- Human Computer Interaction
- Information Security
- Community Work
- System Analysis and Design
- Fundamentals of Cloud Computing
- Database Architecture & Administration
- Network Protocols

YEAR 2 SEMESTER 2
- Computer Ethics and Cyber Law
- Web Application Development
- Software Project Management
- Youth Development
- Python Programming
- Big data analysis
- Network Design and Architecture

YEAR 2 SEMESTER 3
- Research Methodology
- Data Warehousing and Mining
- Data Management
- Ethical Hacking
- TCP/IP Programming

YEAR 3 SEMESTER 1
- Entrepreneurship
- Research Project
- Machine Learning
- Data Visualization
- Cloud Infrastructure and Services
- Wireless Technology and Security

YEAR 3 SEMESTER 2
- Work Integrated Project

Progression Pathway

Master in Information Technology or related fields

PRIDE Add-Ons
(Assured by City & Guilds)
- Excel and Microsoft Office
- 3D Printing
- 3D Modelling
- Additive Manufacturing

Facilities

Practical facilities for the program are available on site of MAHSA University, Bandar Saujana Putra. Some of the facilities under Engineering and Built Environment (FEBE) are already available such as CAD lab, Engineering Workshop and Survey Lab can be shared across the programs.

PEO

PEO1 Adopt appropriate methodologies and techniques to provide computing solutions based on relevant knowledge, cognitive and practical skills in the fields of study in line with the industry requirements.

PEO2 Demonstrate leadership skills, autonomy and responsibility and communicate effectively with discipline-related stakeholders.

PEO3 Present positive personal attitudes, commitment to lifelong learning with digital skills, numeracy skills and entrepreneurial mind-set for self and career development.

PEO4 Identify Interpersonal Skills in IT issues creatively, and uphold ethical and professional practices in maintaining self and profession integrity

PLO

PLO1 Understand and apply knowledge, facts concepts, principles, and theories relating to Information Technology; (Knowledge & understanding)

PLO2 Analyse and apply appropriate theoretical principles on Information Technology in managing Information Technology resources; (Cognitive skills)

PLO3 Adapt appropriate methodologies and techniques for proposing, designing, implementing and managing Information Technology solutions. (Practical Skills)

PLO4 Communicate and interact effectively with diverse stakeholders; (Interpersonal skils)

PLO5 Communicate effectively with diverse stakeholders; (Communication skills)

PLO6 Utilise digital skills for problem solving in the field of study; (Digital Skills)

PLO7 Utilise numeracy skills for problem solving in the field of study;(Numeracy skills)

PLO8 Demonstrate leadership, teamwork, accountability and responsibility in delivering services related to field of study; (Leadership, autonomy and responsibility)

PLO9 Commit to principles of lifelong learning in academic and career progression;(Personal skills)

PLO10 Demonstrate and apply entrepreneurial mind set in delivering solutions under changing industry landscape; (Entrepreneurial skills)

PLO11 Uphold professional and ethical practices in delivering services related to the field of study. (Ethics and professionalism)

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