

DIPLOMA IN COMPUTER SCIENCE

(MQA/FA13692) (N/481/4/0822)

PROGRAMME DESCRIPTION

This programme provides students with various career paths in computer science, such as software engineering, web design, system analysis, and data analysis. This program focuses on providing specialist options that meet the needs of the significant functions in computer science and allow specialization with career progression and professional recognition in mind.

CAREER PROSPECTS

- Programmer
- Software Developer
- Web Developer
- Database Administrator
- System Analyst
- IT Support Specialist

DURATION OF STUDIES:

3 Years (9 Semesters)

COMPULSORY SUBJECTS FOR MALAYSIAN STUDENTS

- Philosophy & Current Issue
- Appreciation of Ethics & Civilization
- Bahasa Kebangsaan (A)
- Introduction to Comparative Religion
- Entrepreneurship Skills
- Professional Development
- Thinking Skills
- Integrity & Anti-corruption

*Students need to complete four modules from the above.

COMPULSORY SUBJECTS FOR INTERNATIONAL STUDENTS

- Bahasa Melayu Komunikasi
- Professional Development
- Thinking Skills
- Integrity & Anti-corruption

*Students need to complete three modules from the above.

AWARDING BODY



WHAT SKILLS WILL YOU DEVELOP?

- Graduates will be able to demonstrate practical skills programming, software development, database management, and other technical areas essential for computer science professionals.
- Graduates will be able to analyse problems, design algorithms, and develop innovative solutions using computational thinking and logical reasoning.
- Graduates will be able to identify the linkage between professionalism and human values in the IT management field.

PROGRAMME STRUCTURE

SEMESTER 1

- Pre Calculus
- Introduction to Programming
- Computer & Information Processing

SEMESTER 2

- Data Communication
- Fundamentals of Algorithm & Data Structure
- Operating System

SEMESTER 3

- Integrated Language Skills

SEMESTER 4

- Ethics in Computing
- Introduction to Database Design
- Interactive Multimedia
- Calculus & Linear Algebra 1

SEMESTER 5

- Computer Network
- Introduction to Probability and Statistic
- System Analysis and Design
- Web Application Development

SEMESTER 6

- Discrete Mathematics
- Work Culture
- Computer Systems

SEMESTER 7

- Visual Programming
- Object Oriented Programming
- Principles of Artificial Intelligence
- Cybersecurity Fundamentals

SEMESTER 8

- Calculus & Linear Algebra 2
- Final Year Project

SEMESTER 9

- Industrial Training