



# DIPLOMA COMPUTER SCIENCE

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

## INTRODUCTION

The Diploma in Computer Science is a study program that focuses on theoretical aspects and practical applications in the field of computers. Its curriculum covers a variety of topics such as programming, data foundations, computer networks, artificial intelligence, web programming, and software project management.

Students who follow the Diploma in Computer Science program will learn about the basic concepts in computer science as well as technical skills in developing software, analyzing data, and managing computer systems. They will also learn programming languages such as Java, Python, or C++, as well as the latest technologies in the computer field.

## ENTRY REQUIREMENTS

1. Pass the Malaysian Certificate of Education (SPM) with 3 credits in any subject including Mathematics; OR
2. Pass the Malaysian Skills Certificate (SKM) Level 3 in a related field and credit in SPM or equivalent; OR
3. Pass the Malaysian Higher School Certificate (STPM) with a minimum grade of C (GPA2.00) in any subject and credit Mathematics in SPM; OR
4. Pass the Malaysian Higher Certificate of Religion (STAM) with a minimum grade of Maqbul (Pass) and Mathematics credit in SPM or equivalent; OR
5. Any qualification equivalent to a certificate (Level 3, Malaysian Qualification Framework).

## COURSE SCHEDULE

**YEAR 1**

**3 SEMESTERS**

**YEAR 2**

**3 SEMESTERS**

**YEAR 3**

**3 SEMESTERS**

## CAREER PATHWAY

- Data Analyst
- Application Developer
- Mobile
- IT Analyst
- Software engineer
- Computer programmer



## **SEMESTER 1**

- Philosophy and Current Issues OR
- Appreciation of Ethics and Civilization
- Pre Calculus
- Introduction to Programming
- Computers & Information Processing

## **SEMESTER 2**

- National Language (A) OR
- Introduction to Comparative Religion OR
- Entrepreneurial Skills
- Data communication
- Fundamentals of Algorithms &
- Data Structures
- Operational system

## **SEMESTER 3**

- Professional Development OR
- Thinking skills
- Integrity And Anti-corruption
- Integrated Language Skills

## **SEMESTER 4**

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

## **SEMESTER 5**

- Computer network
- Introduction to Probability and Statistics
- System Analysis and Design
- Web Application Development

## **SEMESTER 6**

- Discrete Mathematics
- Working culture
- Computer system

## **SEMESTER 7**

- Object Oriented Programming
- Visual Programming
- Principles of Artificial Intelligence
- Fundamentals of Cyber Security

## **SEMESTER 8**

- Calculus & Linear Algebra 2
- Final Year Project

## **SEMESTER 9**

- Industrial training

IMBASAN  
KOD QR  
UNTUK BERHUBUNG  
DENGAN PEGAWAI  
JABATAN KEMASUKAN  
PELAJAR

