

**CS110 Diploma in Computer Science**

Candidates must fulfill the UNIVERSITY GENERAL REQUIREMENTS and:

1. Passed SPM or equivalent qualification (recognized by the Government of Malaysia) with credits in the following subjects:

- Bahasa Melayu
  - Mathematics
  - Two (2) subjects including Additional Mathematics / Physics / Chemistry / Biology / Additional Science / Science / Information and Communication Technology/Fundamentals of Programming/Programming and Development Tools
  - English
- AND**
- a pass in History (applicable for SPM 2013 onwards)

OR

2. Passed the Pre-Diploma in Science (PD008) from UiTM

OR

3\*. Certificate in Computer Programming from UiTM or Certificate in Information Technology from UiTM with a CGPA of at least 2.7 and ONE (1) year of working experience in any related field, and a pass in English at the SPM level.

\* Applicable for Diploma in Computer Science (CS110) only.

## Programme Objectives



The world of computing today demands programmers not only to be competent in software development but at the same time possess a strong fundamental in problem solving. This Diploma in Computer Science program prepares students for the challenging tasks by providing courses from the abstraction level up until implementation and deployment. The content designed for the curriculum covers the courses such as basic computing, programming, operating systems, networking, database, as well as Mathematics and English. These courses, together with extra curricular activities, will shape the mind and body of the students into strong and versatile individuals that are capable to cope with the demanding computing work environment. As part of the curriculum, the students will also be stationed at various software houses and offices around the country to let them feel a real work environment. The graduate of this program can seek employment in the area of software development, web design, web programming, PC maintenance, and any computing-related field.

## Career Opportunities



Diploma in Computer Science holders are needed in both private and public sector. There are many career opportunities available for graduates of this programme since most organizations will require IT personnels.

ICT introduces new ways for doing business resulting in many new job designations. Among the many designations that may be filled by the graduates are: Web Designer, Programmers, Technical Writers, System Analysts and other related posts. Diploma holders can also pursue their studies at a higher level.

## Plan of Study



### **Semester 1 Year 1**

Fundamentals of Islam, Co-curriculum I, Integrated Language Skills: Listening, Fundamentals of Computer Problem Solving, Pre Calculus, Accounting I, Fundamentals of Algorithm Development

### **Semester 2 Year 1**

Islamic Thought and Civilization, Co-curriculum II, Integrated Language Skills: Reading, Computer Organization, Structured Programming, Calculus 1, Principles of Economics

### **Semester 3 Year 2**

Science and Technology in Islam, Co-curriculum III, Integrated Language Skills: Writing, Object Oriented Programming, Introduction to Database Management System, Discrete Mathematics, Fundamentals of Management

### **Semester 4 Year 2**

Fundamentals of Entrepreneurship, Fundamentals of Data Structures, Information System Development, Practical Approach of Operating Systems, Introduction to Probability and Statistics, Elective 1

### **Semester 5 Year 3**

Web Application Development, Introduction to Data Communication and Networking, Linear Algebra I, Elective 2, Elective 3, Practical Training

### **Elective**

Digital Electronic, Interactive Multimedia, Visual Programming, Commercial Programming, Programming Paradigms, Introduction to Computer Security

**\*Please refer to the Faculty website for an updated version**