

Programme Synopsis



As the world of computing evolves, it brings along the transformation of the process and operation in a workplace. Dynamic knowledge workers are ultimately needed to cope with these changes. The Bachelor of Computer Science program prepares students to become computer scientists who will be competent enough to face such computing challenges in their workplaces. In this program, students will be trained to gain scientific concepts and principles of the latest computer technology and software development. The content covers the computer problem solving, operating systems, database, software engineering, computer security, networking as well as Mathematics and English. In addition, extracurricular activities will shape the students into strong and versatile individuals that are capable to cope with the demanding working environment. Many of the offered courses require the students to work both independently and in a team, thus, preparing them into participating in a real-life working environment. Some industry-based short courses and certification programs are also available to the graduating students at the end of the program. This program is definitely should be your first choice to secure your future in a computing workplace.

Career Opportunities



A computer science graduate has a wide range of job designations to choose from. Among the many job designations that can be filled by graduates of this programme are: systems analyst, systems consultant, software engineer, systems programmer, database analyst, scientific applications programmer, user interface designer, embedded systems application programmer, electronic data processing (EDP) auditor, database administrator, chief information officer, computer scientist / researcher, computer science professor, data miner, Internet applications programmer, Internet consultant, Webmaster, Internet advertising designer, technical support representative, trainer for software applications, systems integrator, technical writer and journalist for computer-related publications.



Semester 1 Year 1

Co-Curriculum I, Applied Probability and Statistics, Linear Algebra, Interactive Multimedia, Programming I, Database Design and Application, Fundamentals of Computer Problem Solving, Computer Architecture and Organization.

Semester 2 Year 1

Co-Curriculum II, Islamic and Asian Civilization, Preparatory College English, Calculus I, Introduction to Data Communication and Networking, Programming II, Principles of Operating Systems.

Semester 3 Year 2

Co-Curriculum III, Sejarah Malaysia, Third Language I, Academic Reading, Object Oriented Programming, Discrete Structures, Database Management Systems, CS Elective I

Semester 4 Year 2

Third Language II, Academic Writing, Software Engineering: Theory and Principles, Parallel Processing, Principles of Compilers, Fundamental of Data Structures, CS Elective II

Semester 5 Year 3

Third Language III, Technology Entrepreneurship, Operational Research, Project Formulation, Data Structures, Algorithm Analysis and Design

Semester 6 Year 3

Social, Ethics & Professional Issues, Project, Computer Security, CS Elective III, CS Elective IV

Semester 7 Year 4

Industrial Attachment