

COMPUTER SCIENCE PROGRAMMES

COURSE	ENTRY REQUIREMENTS	DURATION
Foundation	Passed Sijil Pelajaran Malaysia (SPM) examination with credits in Bahasa Malaysia, English Language and good credits in four (4) relevant subjects which must include Mathematics, Additional Mathematics and Physics International Students: Passed 'O-Level' examination or equivalent with good grades in Mathematics, Physics, English* and one (1) other subject.	1 year
Bachelor of Computer Science (Systems & Networking) (Hons)	Passed Foundation Programme/STPM/A-Level/Matriculation/Diploma or equivalent qualification and have taken the Malaysian University English Test (MUET) International Students: Passed 'A-Level' examination or equivalent with good grades in Mathematics and Physics. • Obtained minimum grade 'C' for English* at 'O-Level' examination.	3½ or 4 years
Bachelor of Computer Science (Software Engineering) (Hons)		

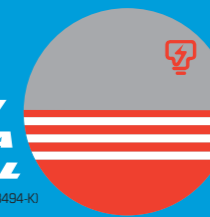
INFORMATION TECHNOLOGY PROGRAMMES

COURSE	ENTRY REQUIREMENTS	DURATION
Foundation	Passed Sijil Pelajaran Malaysia (SPM) examination with credits in Bahasa Malaysia, English Language and good credits in four (4) relevant subjects which should include Mathematics and General Science/Physics/Chemistry/Biology International Students: Passed 'O-Level' examination or equivalent with good grades in Mathematics and English* and two (2) other subjects.	1 year
Bachelor of Information Technology (Information System) (Hons)	Passed Foundation Programme/STPM/A-Level/Matriculation/Diploma or equivalent qualification and have taken the Malaysian University English Test (MUET) International Students: Passed 'A-Level' examination or equivalent with good grades in Mathematics and Physics. • Obtained minimum grade 'C' for English* at 'O-Level' examination.	3½ or 4 years
Bachelor of Information Technology (Graphics & Multimedia) (Hons)		

* Applicants with IELTS (5.5 – 6.0) or TOEFL (550 and above) can be admitted directly in foundation or degree programmes. However, those who did not meet the minimum requirement for English proficiency are required to pursue the Intensive English Programme in UNITEN.

UNIVERSITI
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(398494-K)



PROGRAMME INFORMATION
COLLEGE OF INFORMATION
TECHNOLOGY



UNIVERSITI
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(398494-K)



MSC-Status
Company

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UNITEN GENERATES
PROFESSIONALS

The College of Information Technology offers comprehensive and innovative information technology programmes leading to the award of various Bachelor degrees. Students here learn the technical aspects of IT as well as the importance and needs of the IT industry. Students will also develop a better understanding of its function in the manufacturing and engineering sectors.

Computer science and computer-based information technology system have become indispensable in today's world. Though relatively new compared to other traditional disciplines, this technology, that gained popularity some three decades ago, has since grown rapidly and assimilated into every spectrum of modern civilisation.

Information technology is a multi-disciplinary subject addressing a wide range of strategic, managerial and operational activities involving gathering, handling and using information input and its associated technology. Though technology based, information technology system requires considerable human effort and input. As such, computer application is limited only by one's own ingenuity.

The College of Information Technology has designed a comprehensive and balanced programme tailored to meet the needs of the IT industry as well as the manufacturing and engineering sectors.

BACHELOR OF COMPUTER SCIENCE SYSTEMS AND NETWORKING (HONS) KP/JPS (KA 5289) 06/09

Career Prospects: Graduates from this programme may pursue a wide range of careers such as computer programmers, system programmers, database programmers, database administrators, software developers, web programmers, system analysts, system engineers, system administrators, network analysts, network designers, network engineers, network administrators, project managers, software consultants, network consultants, IT security managers, IT training managers, IT consultants, research associates, teaching positions.

Course Content

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| • Principles of Programming | • Database Systems | • Ethics for IT Professionals |
| • Discrete Structures | • Artificial Intelligence | • Intelligent Embedded Systems |
| • Computer Organisation | • Industrial Training | • Linux Operating System Design |
| • Advanced Programming | • Project I | • Network Analysis & Design |
| • Information Theory | • Project II | • Network Computing |
| • Web Programming | • Islamic/Moral Studies I | • Data and Computer Security |
| • System Analysis & Design | • Islamic/Moral Studies II | • Parallel Programming & Programming Languages |
| • Data Communication and Computer Networks | • Malaysian Studies | |
| • Data Structure and Algorithm | • Advanced Computer Network | |
| • Operating System Concepts | • Advanced Operating System | |
| • Fundamental of Software Engineering | • Microprocessor | |
| • Digital Logic Design | • Object-Oriented Programming | |
| | • IT Communication | |

BACHELOR OF COMPUTER SCIENCE SOFTWARE ENGINEERING (HONS) KP/JPS (KA 5290) 06/09

Career Prospects: Graduates from this programme may pursue careers in a wide range of capacities including software engineers, information system engineers, information system officers, programmers, system designers, system developers and IT project managers. There are also job opportunities in support areas such as marketing, sales, management consultancy and systems support.

Course Content

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| • Principles of Programming | • Real-Time Systems | • Human Computer Interface |
| • Advanced Programming | • Advanced Database | • Object-Oriented Programming |
| • Web Programming | • Parallel Programming and Distributed System | • Ethics for IT Professionals |
| • Data Communication and Computer Networks | • Discrete Structure | • Advanced Object-Oriented Programming |
| • Operating System Concepts | • Computer Organisation | • Data and Computer Security |
| • Digital Logic Design | • Information Theory | • Network Analysis and Design |
| • Artificial Intelligence | • System Analysis and Design | • Software Project Management |
| • Project I | • Data Structure and Algorithm | • Advanced Software Engineering |
| • Islamic/Moral Studies I | • Fundamental of Software Engineering | • Secure Programming |
| • Malaysian Studies | • Database Systems | |
| • Programming Languages | • Industrial Training | |
| • Software Testing & Maintenance | • Project II | |
| • IT Communication | • Software Quality | |
| • Malay Language | • Islamic/Moral Studies II | |
| • Business English | | |

BACHELOR OF INFORMATION TECHNOLOGY INFORMATION SYSTEMS (HONS) KP/JPS (KA 5288) 06/09

Career Prospects: Graduates from this programme may pursue careers as information system engineers, information system officers, analyst programmers, system designers, system developers and IT project managers in a wide range of areas including decision support system, strategic information system planning, electronic commerce, intelligent agent, information retrieval, information management, knowledge management, information system auditing and many more.

Course Content

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| • Principles of Programming | • Technical Communication | • Islamic/Moral Studies II |
| • Web Programming | • Business Data Processing | • Computer and Data Security |
| • Data Communication and Computer Networks | • Management Information System | • IS Auditing |
| • Operating Systems Concepts | • Software Engineering | • Knowledge Management |
| • Project I | • Discrete Structures | • Strategic Information System Planning |
| • Islamic/Moral Studies | • Computer Organisation | • Decision Support System |
| • Malaysian Studies | • Multimedia Technologies | • Ethics for IT Professionals |
| • Software Project Management | • System Analysis and Design | • Advance Database |
| • E-business | • Human Computer Interaction | • IT & Business Process Reengineering |
| • Managing IT | • Industrial Training | • Database Systems |
| • Information Theory | • Project II | |

BACHELOR OF INFORMATION TECHNOLOGY GRAPHICS & MULTIMEDIA (HONS)

Career Prospects: Graduates from this programme may pursue a wide range of careers such as multimedia developers, media specialists, instructional designers, animators, and in areas such as desktop publishing, advertising, virtual reality, broadcasting and many more.

Course Content

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| • Multimedia Technologies | • Computer Organisation | • Data Communication and Computer Networks |
| • Computer Modeling and Creativity | • System Analysis and Design | • Information Theory |
| • Introduction to Computer Graphic | • Software Engineering | • Ethics for IT Professionals |
| • Multimedia System Design | • Database Systems | • Project I |
| • Image Processing & Computer Vision | • IT Communication | • Project II |
| • Virtual Reality | • Advanced Programming | • Industrial Training |
| • Computer Animation | • Web Programming | • Islamic/Moral Studies I |
| • Computer-Based Training | • Human Computer Interaction | • Islamic/Moral Studies II |
| • Game Design | • Operating System Concepts | • Malaysian Studies |
| • Audio Video Technology | • Management Information System | • Effective Drawing |
| • Simulation | • Discrete Structure | • Research Methodology |
| • Principles of Programming | | |

All programmes offered are designed to satisfy the academic requirement of the Malaysian Qualifications Agency (MQA) or formerly known as National Accreditation Board.

