



UNIVERSITI  
MALAYA

Faculty of Computer Science &  
Information Technology

# UNDERGRADUATE



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**Fakulti Sains Komputer & Teknologi Maklumat**

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# Achievement



**in Malaysia for  
Computer Science**

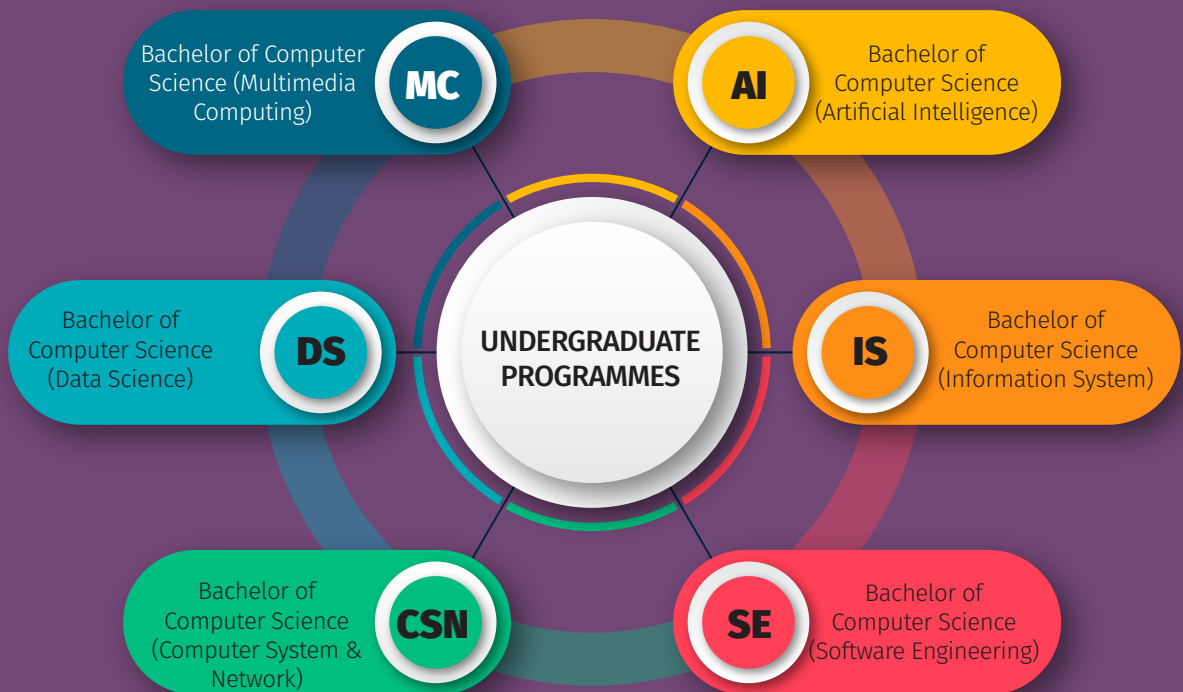


**In the world  
By Subject**

<https://www.topuniversities.com/university-rankings/university-subject-rankings/2022/computer-science-information-systems>



# Our Programmes





# Bachelor of Computer Science (Computer System & Network)

The programme focuses on computer science knowledge in specialization of computer system and networks. There are three main cores in the programme specialization which are Computer System, Computer Networks, and Computer Security. Theoretical knowledge and practical skills are applied in specialization courses based on three main core fields. The programme also equipped the prospective graduates with the latest technological knowledge that in line with the relevant industry needs. The prospective graduates are ready with the required skills sets of in-demand career certifications such as CCNA (Cisco Professional Certification), HCIA (Huawei Professional Certification), EC Council certification (Security Professional Certificate) and etc.



## CAREER PATH

Your future career prospect could include (but not limited to):

- Network Analyst
- Network Administrator
- System Analyst
- Security Analyst
- Forensic Analyst
- Network Programmer
- Network / Security Consultant
- Academician/Researcher



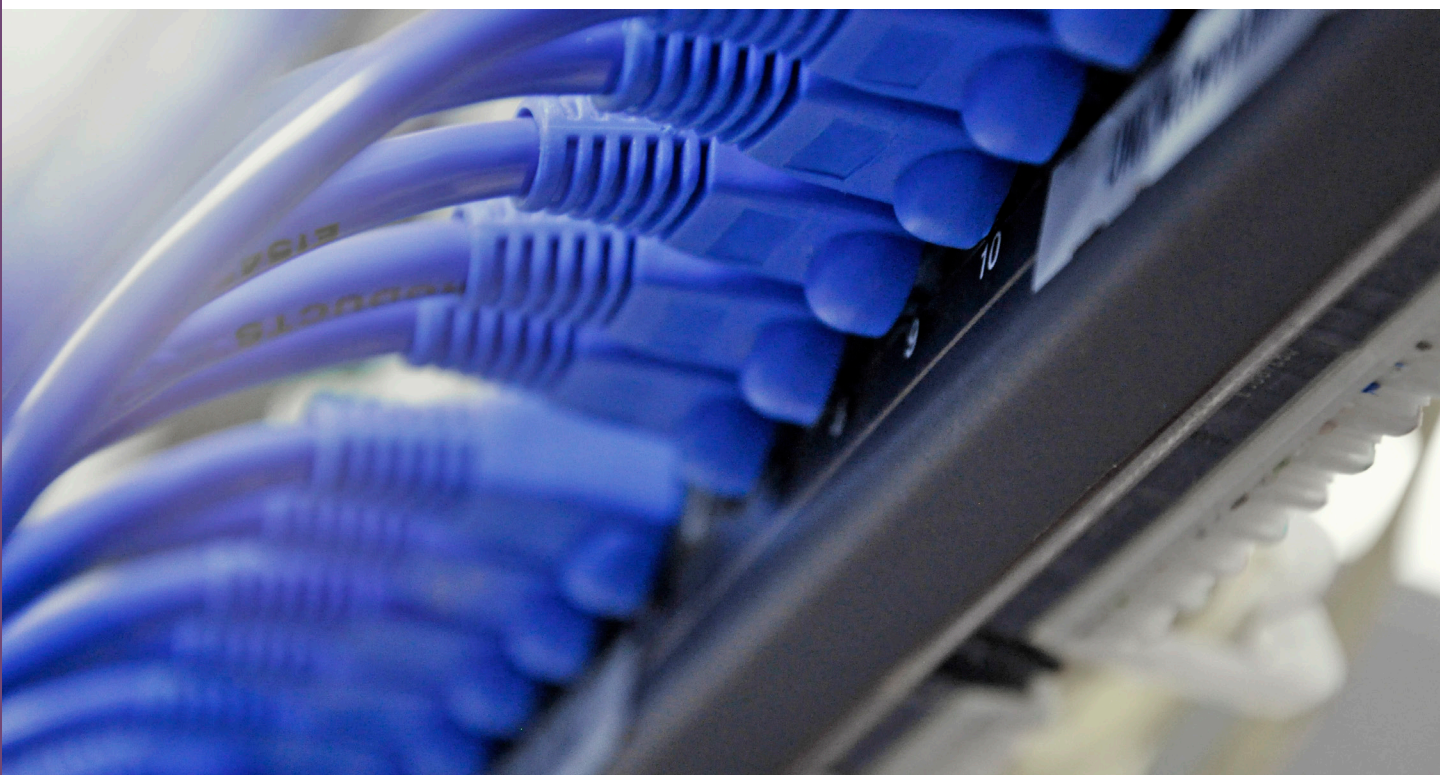
## ELECTIVES COURSES (SPECIALIZATION)

- Network Security
- Internet Technology
- Programmable Network
- Digital Forensic
- Cyber Security
- Internet of Things (IoT)
- Mathematics in Networking
- Cryptography
- Embedded System Programming
- Computer Penetration
- Enterprise Network Design and Management
- Mobile Computing
- Principles of Distributed System
- Microprocessor
- Parallel Programming



## FEES

Local (UPU) : RM 9,730.00  
Local (SATU) : RM 60,210.00  
International: RM 66,570.00



# Bachelor of Computer Science (Artificial Intelligence)

The Bachelor of Computer Science (Artificial Intelligence) is an exciting and cutting-edge program that prepares students to design and develop computer systems that mimic and showcase human intelligence. With a strong emphasis on both theory and practice, students will gain in-depth knowledge and practical skills in a wide range of areas, including Robotics, Cognitive Science, Image Processing, Natural Language Processing, Machine Learning, Artificial Neural Network, Fuzzy Logic, Expert Systems, and Logic Programming. The program also offers hands-on opportunities for students to apply their skills and knowledge through real-world applications, including their final year projects. Join us and embark on a journey to unlock the endless possibilities of artificial intelligence in the dynamic field of computer science.



## CAREER PATH

Your future career prospect could include (but not limited to):

- Artificial Intelligence Software Developer
- Robotics Engineer
- Data Scientist
- Knowledge Engineer
- Artificial Intelligence Consultant
- Researcher
- Academician



## ELECTIVES COURSES (SPECIALIZATION)

- Knowledge Representation & Reasoning
- Computing Math II
- Cognitive Science
- Functional & Logic Programming
- Natural Language Processing
- Fuzzy Logic
- Autonomous Robot
- Deep Learning
- Evolutionary Computation
- Computer Vision & Pattern Recognition
- Practical Artificial Intelligence
- Numerical Analysis
- Internet of Things (IoT)
- Virtual Reality



## FEES

Local (UPU) : RM 9,730.00  
Local (SATU) : RM 60,210.00  
International: RM 66,570.00





# Bachelor of Computer Science (Information Systems)

The Bachelor of Computer Science (Information Systems) is designed to produce graduates with the analytical, design, development and management skills of information system. Information systems are the heart of organisations an important to support their daily operations. Analysing and managing huge amount of data exist in the systems are important in creating significant value for organisations and it has become as an enabler for the organization in making decisions. Courses offered in this programme enable the students to develop their skills to understand the needs of managing, analysing and mining data, securing systems and integrating systems.



## CAREER PATH

Your future career prospect could include (but not limited to):

- Database Administrator
- Data Engineer
- System Analysts
- IT Project Consultant
- Information Security Analyst
- Data scientist
- System/Application analyst
- Information systems manager



## ELECTIVES COURSES (SPECIALIZATION)

- Trends in Information System
- Open Source Programming
- Introduction to Data Science
- Information Retrieval and Web Search
- Advanced Database
- E-Commerce
- Information System Control & Security
- Knowledge Management and Engineering
- Information System Auditing
- Data Mining and Warehousing
- Business Analytics and Intelligence
- Data Visualization
- Web Programming
- Internet of Things (IoT)



## FEES

Local (UPU) : RM 9,730.00

Local (SATU) : RM 60,210.00

International: RM 66,570.00



# Bachelor of Computer Science (Software Engineering)

The programme offers the students a complete and comprehensive Software Engineering perspectives, by providing not only critical fundamental and theoretical knowledge, but also the current practical skill sets, tools and technologies demanded by modern businesses and various industries. The programme covers a thorough Software Engineering workflow beginning with the problem understanding and software requirement elicitation, then moving into software analysis, architecture and UI/UX design, and finally the software development and software verification/validation, to create a well-rounded Software Engineering graduates that are innovative, competent, adaptive and ready to meet the challenges in the industry.



## CAREER PATH

Your future career prospect could include (but not limited to):

- Software Engineer or Developer (in Web, Mobile, Desktop or Distributed Application)
- Software Consultant, Architect, Analyst or Requirement Engineer
- Front end Engineer or UI/UX Designer
- Software Quality Assurance Engineer or Tester



## ELECTIVES COURSES (SPECIALIZATION)

- Software Requirements Engineering
- Web Programming
- Software Testing
- Software Process and Quality
- Software Architecture and Design Paradigms
- Software Maintenance and Evolution
- Component Based Software Engineering
- Real Time Systems
- Python for Scientific Computing
- Programming Language Paradigm
- Concurrent and Parallel Programming
- Game Development
- Internet of Things (IoT)



## FEES

Local (UPU) : RM 10,290.00  
Local (SATU) : RM 60,210.00  
International: RM 66,570.00





# Bachelor of Computer Science (Multimedia Computing)

This programme is designed to produce graduates with the necessary knowledge and skills in the field of Computer Science and Multimedia Computing through a mix of classroom instructions and hands-on experience. Our graduates will be able to apply their expertise in Multimedia Computing to create new solutions for Information Technology problems. They will also be very adept at utilizing software or tools to design and develop multimedia assets and successively achieve the goals of multimedia system developments such as Multimedia Games, Augmented reality applications, Adaptive Multimedia applications and Metaverse.



## CAREER PATH

Your future career prospect could include (but not limited to):

- Consultant
- Web/Apps/ Developer
- Graphics Designer
- Animator
- Game Developer
- Multimedia Forensic
- Academician
- Researcher
- Metaverse developer
- Project Manager



## ELECTIVES COURSES (SPECIALIZATION)

- Digital Image Processing
- Computer Graphics
- Audio Synthesis
- Interactive Design
- Mathematics for Multimedia
- Rendering and Animation
- Multimedia Programming
- Virtual Reality
- Game Development
- Digital Video Processing
- Special Topics in Multimedia
- Multimedia Forensic and Security
- Data Visualization
- Web Programming



## FEES

Local (UPU) : RM 10,290.00  
Local (SATU) : RM 60,210.00  
International: RM 66,570.00



# Bachelor of Computer Science (Data Science)

The Bachelor of Computer Science (Data Science) is an industrial mode program (2u2i programme). This programme is developed in partnership with industry to give students more exposure and engagement with industry in tackling real-world problems and practice. Data science is complex and dynamic, where students explore the technical, analytical and practical skills needed to solve real-world and data driven problems. The programme covers the data science pipelines and utilize data sets in the presence of analytics experts for the business perspective. Student will learn how to harness the power of data through data analytics and machine learning which later it'll be used to develop an innovative solution to the important challenges of interpreting the enormous volumes of complex business data



## CAREER PATH

Your future career prospect could include (but not limited to):

- Data Scientist
- Data Analyst
- Business Analyst
- Data Engineer
- Machine Learning Engineer
- Data Modeler



## ELECTIVES COURSES (SPECIALIZATION)

- Data Analytics
- Knowledge Representation and Reasoning
- Computing Math II
- Natural Language Processing
- Data Mining and Warehousing
- Business Analytics and Intelligence
- Data Visualization
- Big Data Applications and Analytics
- Trends in Data Science



## FEES

Local (UPU) : RM 20,020.00  
Local (SATU) : RM 71,060.00

**Note:**

This programme is not offered to International applicants





# Entry Requirement

## STPM

- Passed the STPM with at least CGPA 3.00
- Obtained at least Grade B at the STPM level in the following subjects:
  - » Mathematics (T)
  - » Physics/ Information and Communications Technology (ICT)
  - » Chemistry/ Biology
- Obtained at least Grade B at the SPM level in the following subjects:
  - » Additional Mathematics
  - » Mathematics / Physics
- Obtained at least Band 3 in MUET.

## MATRICULATION/ FOUNDATION

- Passed the Matriculation/ Foundation with at least CGPA 3.00
- Obtained at least Grade B at the Matriculation/ Foundation level in the following subjects:
  - » Mathematics
  - » Physics/ Engineering Physics/ Computer Science/ Computing
  - » Chemistry/ Engineering Chemistry / Biology/
- Obtained at least Grade B at the SPM level in the following subjects:
  - » Additional Mathematics
  - » Mathematics / Physics
- Obtained at least Band 3 in MUET.

## DIPLOMA

- Possess a Diploma in Computer Science or Diploma in Information Technology or a Diploma in related fields from Public or Higher Education institutions recognized by the Government of Malaysia and the University Senate with at least CGPA 3.00

- Obtained at least Grade B in the Diploma level in one of the Mathematics subject;
- Obtained at least Grade B at the SPM level in the following subjects:
  - » Additional Mathematics
  - » Mathematics / Physics
- Obtained at least Band 3 in MUET.

## A-LEVEL

- Have a GCE A Level qualification with at least Grade A in the following subject:
  - » Mathematics
  - » Physic/ Computing
- Obtained at least Grade B in one of the following subjects:
  - » Further Mathematics/ Chemistry/ Biology
- Obtained at least Grade B at the SPM level in the following subjects:
  - » Additional Mathematics
  - » Mathematics / Physics
- Obtained at least Band 3 in MUET.

## INTERNATIONAL BACCALAUREATE (IB)

- Have an International Baccalaureate (IB) Diploma with at least 30 points scored and Grade 5 (Higher Level) in the following subject:
  - » Mathematics
  - » Physic/ Computer Science
  - » Chemistry/Biology
- Obtained at least Grade B at the SPM level in the following subjects:
  - » Additional Mathematics
  - » Mathematics / Physics
- Obtained at least Band 3 in MUET.

## AUSTRALIAN MATRICULATION PROGRAMME (AUSMAT)

- Have an Australian Matriculation Programme (AUSMAT) with at least 80% score in Australian Tertiary Admission Rank (ATAR) and 16 points (High Achievement) in the following subject:
  - » Mathematics
  - » Physic
- Obtained at least Grade B in one of the following subjects:
  - » Chemistry
  - » Mathematics Specialist
- Obtained at least Grade B at the SPM level in the following subjects:
  - » Additional Mathematics
  - » Mathematics / Physics
- Obtained at least Band 3 in MUET.

## INTERNATIONAL ADMISSION

### General Entry Requirements

- National Higher School Certificate (or an Advanced Level) with the grade 90% and above (Prioritize in Mathematics and Physics) OR
- A Diploma from recognized institutions with at least a CGPA of 3.00
- **English Language Requirement**
  - (i) Score 550 (PBT)/213 (CBT) / 80 (iBT) in TOEFL
  - (ii) Band 6.0 > IELTS Academic
  - (iii) Score 57 > PTE Academic

Note: Applicant may be required to undergo an interview session before being accepted by the faculty.

## How to Apply?



UPU

<https://online.mohe.gov.my/UPUOnlinev2/login>



SATU  
(Open Channel)

<https://study.um.edu.my/>



INTERNATIONAL

<https://study.um.edu.my/>

## Programme Accreditation

### REACCREDITATION by MQA

Bachelor of  
Computer Science  
(Computer System &  
Network)

Bachelor  
of Computer  
Science (Artificial  
Intelligence)

Bachelor of  
Computer Science  
(Information  
Systems)

Bachelor  
of Computer  
Science (Software  
Engineering)

Bachelor of  
Computer Science  
(Multimedia  
Computing)

### FULL ACCREDITATION by MQA

Bachelor of  
Computer Science  
(Data Science)



# MASTER OF ARTIFICIAL INTELLIGENCE (COURSEWORK)

**The Master of Artificial Intelligence programme provides opportunities for degree holders in Computer Science / Information Technology to:**

- Demonstrate the ability and to apply artificial intelligence techniques theoretically and practically in a variety of situations.
- Develop candidates who can contribute their skills in the practical development of artificial intelligence for society's well-being and sustainability development.
- Develop candidates who can demonstrate professional attitudes and ethics in producing science and technology solutions through innovative artificial intelligence.

These courses encompass the theoretical and practical knowledge of Artificial Intelligence that equips the candidate with knowledge and skills needed to produce AI solutions which support automation.

The type of programme offered by the Master of Artificial Intelligence is a programme consisting of 10 subjects that prepares students for the final capstone project which allows students to apply the knowledge they learned in the taught courses to real-world applications.



## MASTER OF ARTIFICIAL INTELLIGENCE (COURSEWORK)



### CAREER OPPORTUNITY

- Artificial Intelligence Researchers
- Intelligence Specialist
- Machine Learning Engineer
- Deep Learning Engineer
- Product Manager
- Software Engineer



### COURSE STRUCTURE

Courses Module (42 Credit Hours)

Core Courses (26 Credits) + Elective Courses (6 Credits) + Artificial Intelligence Research Project (10 Credits Hours)

#### Core Courses (26 Credits)

- Research Methodology
- Advanced Machine Learning
- Artificial Intelligence Techniques
- Intelligent Computation
- Data Analytics in Artificial Intelligence
- Data Privacy and Artificial Intelligence (AI) Ethics
- Computer Vision and Image Processing
- Natural Language Processing

#### Elective Courses 6 Credit Hours)

\*Select two subjects only

- Augmented Reality
- Practical Deep Learning
- Explainable Artificial Intelligence (XAI)
- Robotics and Automation
- Cognitive Computing



### ENTRY REQUIREMENT

A Bachelor's degree in Science Computer and Information Technology (Science stream) or related field with a minimum CGPA of 3.0; or

A Bachelor's degree in Computer Science and Information Technology (Science stream) or a related field with a minimum CGPA of 2.7-2.99 with Computer Science/ Artificial Intelligence experiences minimum 3 years (Working experiences)

#### International applicants are required to have:

- IELTS Band 6 (Academic) or
- TOEFL score of 550 (paper based) / 213 (computer based) / 80 (Internet based)
- PTE minimum 57 score if their first degree is from a university where English is not the medium of instruction



### INTAKE SCHEDULE

Application and admission is open once a year (Intake in October)



### FEES

Local: RM25,927.50

International: RM45,815.00

*\*All fees are subjected amendment by the Management of the Universiti Malaysia*





# MASTER OF CYBER SECURITY (COURSEWORK)

**The Master of Cyber Security programme provides opportunities for degree holders in Computer Science / Information Technology to learn:**

- Latest trends of Cyber Security contents that can be mapped to a number of international certifications.
- Latest technological developments that are relevant to the Industrial Revolution 4.0 (IR4.0)
- Strong emphasis in the field of networking will give an advantage to prospective students



## MASTER OF CYBER SECURITY (COURSEWORK)



### CAREER OPPORTUNITY

- Security Analystist
- Forensic Analystist
- Cyber Security Audit
- Cyber Security Engineer
- Cyber Security Specialist
- Cyber Security Consultant
- Cyber Threat Analystist
- Network Security Analyster



### COURSE STRUCTURE

Courses Module (43 Credit Hours)

Core Courses (25 Credits) + Elective Courses (8 Credits) + Cyber Security Research Project (10 Credits)

#### Core Courses (25 Credits)

- Research Methodology
- Cyber Security
- Advanced Network Security Programming
- Network Technology and Security
- Cryptography and Information Hiding
- Information Assurance
- Advanced Digital Forensics
- Advanced Internet of Thing

#### Elective Courses (8 Credit Hours)

\*Select two subjects only

- Advanced Computer Penetration and Defense
- Emerging Cyber Security Trends
- Cloud Computing



### ENTRY REQUIREMENT

A Bachelor's degree in Science Computer and Information Technology (Science stream) or related field with a minimum CGPA of 3.0; **or**

A Bachelor's degree in Computer Science and Information Technology (Science stream) or a related field with a minimum CGPA of 2.7-2.99 with Computer Science/ Cyber Security experiences minimum 3 years (Working experiences)

#### International applicants are required to have:

- IELTS Band 6 (Academic) or
- TOEFL score of 550 (paper based) / 213 (computer based) / 80 (Internet based); or
- PTE minimum 57 score if their first degree is from a university where English is not the medium of instruction



### INTAKE SCHEDULE

Application and admission is open once a year (Intake October)



### FEES

Local RM26,457.50

International RM46,665.00

*\*All fees are subjected amendment by the Management of the Universiti Malaya*





# MASTER OF DATA SCIENCE (COURSEWORK)

The Master of Data Science programme provides opportunities for degree holders in both science and non-science streams to learn the foundations in the science of big data and to offer them skills in this emerging discipline. This programme allows students who wish to strengthen their career prospects in data science to acquire in-depth knowledge and skills to analyse, visualize and transform vast quantities of data in different fields into valuable insights

This programme is a full-time mode, with classes held from 6-9 pm on weekdays and during the weekends.



## MASTER OF DATA SCIENCE (COURSEWORK)



### CAREER OPPORTUNITY

- Data Scientist
- Big Data Analyst
- Machine Learning Engineer
- Mining Analyst
- Data Modeler
- Data Architect/Engineer
- Qualitative Analyst



### COURSE STRUCTURE

#### Courses Module (42 Credit Hours)

#### Core Courses (24 Credits) + Elective Courses (8 Credits) + Data Science Research Project (10 Credits)

##### CORE COURSES (24 Credits)

- Research Methodology
- Principles of Data Science
- Data Analytics
- Programming for Data Science
- Data Mining
- Machine Learning for Data Science
- Big Data Management

##### ELECTIVE COURSES (8 Credit Hours)

\*Select two subjects only

- Parallel and Distributed Computing
- Big Data Applications & Analytics
- Network and Security
- Numerical Optimization



### ENTRY REQUIREMENT

- A Bachelor's degree with Honours in Science stream with a minimum CGPA of 3.30 or equivalent with work experience in related fields for at least three (3) years; **or**

#### International applicants are required to have:

- IELTS Band 6 (Academic) or
- TOEFL score of 550 (paper based) / 213 (computer based) / 80 (Internet based); or
- PTE minimum 57 score if their first degree is from a university where English is not the medium of instruction



### INTAKE SCHEDULE

Application and admission are open twice a year (Intake in March & October)



### FEES

Local – RM18,897.00

International - RM33,270.00

*\*All fees are subjected amendment by the Management of the Universiti Malaya*





# MASTER OF SOFTWARE ENGINEERING (SOFTWARE TECHNOLOGY) (MIXED- MODE)

The Master of Software Engineering (Software Technology) is a mixed-mode programme provides opportunities for the degree holders in Bachelor of Computer Science or related fields to broaden their fundamental knowledge and skills through advanced courses and research in software engineering.

This programme equips students with advanced knowledge and skills that will enable them to thrive and excel in the software industry and research.



# MASTER OF SOFTWARE ENGINEERING (SOFTWARE TECHNOLOGY) (MIXED-MODE)



## CAREER OPPORTUNITY

- Software Engineer
- System Analyst
- Software Tester
- Software Project Manager
- System Engineer
- Software Designer
- Software Quality Engineer
- Software Configuration Manager
- Software Architect
- Software Process Engineer
- Software Maintainer



## COURSE STRUCTURE

Mixed-mode programme consist two parts, which are:

Part I: Coursework (21 credits)

Part II: Dissertation (21 credits)

### Part I: Core Courses (15 Credits)

- Research Methodology
- Big Data Processing
- Requirements Engineering
- User Experience Design Studio
- Advanced Internet of Things
- Advanced Machine Learning

### Elective Courses (6 credits)

\*Select two subjects only

- Big Data Processing
- Requirements Engineering
- User Experience Design Studio
- Advanced Internet of Things
- Advanced Machine Learning
- Security Risk Analysis and Evaluation

### Part II: Dissertation (21 credits)



## ENTRY REQUIREMENT

A bachelor's degree with Honours or a equivalent in Computer Science/Information Technology/related field from a recognized university with a CGPA of 3.0 and above/ equivalent, OR

A bachelor's degree in Computer Science/Information Technology/related field from a recognized university with a CGPA in the range of 2.50 – 2.99/ equivalent can be considered if the applicants has at least 3 years working experiences in related field/ Universiti Malaya graduates

### International applicants are required to :

- IELTS Band 6 (Academic) or
- TOEFL score of 550 (paper based) / 213 (computer based) / 80 (Internet based); or
- PTE minimum 57 score if their first degree is from a university where English is not the medium of instruction



## INTAKE SCHEDULE

Application and admission are open twice a year (Intake in March & October)



## FEES

Local : RM14,437.00

International: RM35,962.50

*\*All fees are subjected amendment by the Management of the Universiti Malaya*





# MASTER OF COMPUTER SCIENCE (APPLIED COMPUTING) (MIXED-MODE)

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The purpose of Master of Computer Science (Applied Computing) programme is to provide advanced training and knowledge in the field of Computer Science. Our program offers a profound and in-depth education in several core areas of computer science. The program guides each individual student in taking a meaningful path through the variety of course offers and designing a profile that matches both personal inclinations and prospective career opportunities.

This programme combines theory and hands-on practice to provide students with a well-rounded education. The programme is designed to encourage both fundamental research in computing and interdisciplinary research. Research projects in diverse areas offer students a wide range of opportunities to gain experience. Significant computational facilities, networks, and other resources are available to support student research.



# MASTER OF COMPUTER SCIENCE (APPLIED COMPUTING) (MIXED-MODE)



## CAREER OPPORTUNITY

- Computer and Information Scientist
- Computer/Multimedia Programmer/ Developer
- Software Engineer
- Computer Systems Analyst
- Database Administrator
- Network and Computer Systems
- Administrator/Analyst



## COURSE STRUCTURE

Mixed-mode programme consist two parts, which are:

Part I: Coursework (21 credits)

Part II: Dissertation (21 credits)

### Part I: Core Courses (15 Credits)

- Research Methodology
- Advanced Algorithms
- Advanced Machine Learning
- Cloud Computing
- Security Risk Analysis and Evaluation

### Elective Courses (6 credits)

\*Select two subjects only

- Autonomous Robotics
- Data Analytics
- Advanced Internet of Things
- Framework-Based Software Design and Development
- Augmented Reality

### Part II: Dissertation (21 credits)



## ENTRY REQUIREMENT

A bachelor's degree with Honours or a equivalent in Computer Science/Information Technology/related field from a recognized university with a CGPA of 3.0 and above/ equivalent, OR

A bachelor's degree in Computer Science/Information Technology/related field from a recognized university with a CGPA in the range of 2.50 – 2.99/ equivalent can be considered if the applicants has at least 3 years working experiences in related field/ Or Universiti Malaya graduates

### International applicants are required to:

- IELTS Band 6 (Academic) or
- TOEFL score of 550 (paper based) / 213 (computer based) / 80 (Internet based); or
- PTE minimum 57 score if their first degree is from a university where English is not the medium of instruction



## INTAKE SCHEDULE

Application and admission are open twice a year (Intake in March & October)



## FEES

Local – RM14,437.00

International – RM35,962.50

*\*All fees are subjected amendment by the Management of the Universiti Malaya*





## MASTER OF COMPUTER SCIENCE (RESEARCH)

The Master of Computer Science Programme is designed to produce highly knowledgeable and skilled graduates in the field of computer science, as well as engaging in scientific activities to generate new knowledge and applications that can meet the needs of modern information rich society and the world of computer technologies.

This programme equips students with the requisite competencies that will enable them to foster and thrive in research and innovation in the area of computer science.



## MASTER OF COMPUTER SCIENCE (RESEARCH)



### CAREER OPPORTUNITY

- Computer / Multimedia Programmer / Developer
- Software Engineer
- Computer Systems Analyst
- Database Administrator
- Network and Computer Systems Administrator/Analyst
- Multimedia Producer/Developer
- Academician/Researcher



### COURSE STRUCTURE

The Master of Computer Science is a research mode programme that leads to the submission of a dissertation. Student needs to publish at least one (1) ISI Publication.

Candidates are required to take Research Methodology course in the first year of study

Minimum candidature duration: 2 Semesters

Maximum candidature duration: 8 Semesters



### ENTRY REQUIREMENT

For admission into the Master of Computer Science programme, applicants must have at least:

- A Bachelor's degree with Honours or a comparable degree in Computer Science or Information Technology or in a related field; or
- Other qualifications approved by the University Senate.
- Priority is given to applicants who have a CGPA of 3.0 and above or equivalent.

#### International applicants are required to:

- IELTS Band 6 (Academic) or
- TOEFL score of 550 (paper based) / 213 (computer based) / 80 (Internet based); or
- PTE minimum 57 score if their first degree is from a university where English is not the medium of instruction



### INTAKE SCHEDULE

Application and admission are open throughout the year



### FEES

Local – RM13,687.00

International – RM35,555.00

*\*All fees are subjected amendment by the Management of the Universiti Malaya*





## DOCTOR OF PHILOSOPHY (PH.D)

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The Doctor of Philosophy (PhD) is the highest degree awarded by the university. It requires the conduct of an original research project, writing and defence of a thesis.

The programme is designed to train candidates to satisfy scientific curiosity, contribute to academic community and enhance personal development.



## DOCTOR OF PHILOSOPHY (PH.D)



### CAREER OPPORTUNITY

- Computer Scientist
- Academician/Researcher
- Computer Specialists
- Chief Technology Officer
- Information Broker
- Information Scientist
- System Analyst
- Software Project Manager
- Software Engineer



### COURSE STRUCTURE

- The PhD programme which is offered by research mode only leads to the submission of a thesis.
- Candidates are required to take the Research Methodology course during the first year of studies.
- Minimum candidature duration 4 semesters
- Maximum candidature duration 12 semesters
- Student needs to publish at least two (2) ISI Publications for graduation



### ENTRY REQUIREMENT

The minimum requirements for admission into the PhD programme are:

- a Bachelor's degree in the relevant field; and
- a Master's degree in the relevant field; and
- evidence of adequate training, work experience and ability to undertake research

#### International applicants are required to have:

- IELTS Band 6 (Academic) or
- TOEFL score of 550 (paper based) / 213 (computer based) / 80 (Internet based); or
- PTE minimum 57 score if their first degree is from a university where English is not the medium of instruction



### INTAKE SCHEDULE

Application and admission are open throughout the year



### FEES

Local: RM 20,100.00

International: RM 54,000.00

*\*All fees are subjected amendment by the Management of the Universiti Malaysia*





UNIVERSITI  
MALAYA

Faculty of Computer Science &  
Information Technology

# POSTGRADUATE



fsktm.um.edu.my



fsktmum



fsktm\_um



@fsktmmedia5242



Fakulti Sains Komputer & Teknologi Maklumat

## Enquiries (Postgraduate)

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Telephone: +603-7967 6307

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