

# INSTITUTE OF **COMPUTER SCIENCE AND DIGITAL INNOVATION**



[ucsiuniversity.edu.my](https://ucsiuniversity.edu.my)



# WORLD'S TOP 1% #265 AND RISING ONE OF ASIA'S TOP PRIVATE UNIVERSITIES

**QS** WORLD UNIVERSITY RANKINGS 2025

**#1**

**MALAYSIA'S TOP  
PRIVATE UNIVERSITY  
FOR GRADUATE  
EMPLOYABILITY AND  
OUTCOMES**



**Malaysia's top private  
university for graduate  
employability**

Higher Education Ministry's Graduate Employability 2021-2022 survey.



**Malaysia's top private  
university for  
employment outcomes**

QS World University Rankings 2024



**Four Forbes 30 Under  
30 Asia inductees**



**Three Prestige 40 Under  
40 laureates**

## UCSI's SUBJECT MILESTONES

**QS World  
University  
Rankings by  
Subject 2025**

**#32** PERFORMING  
ARTS (MUSIC)

**TOP 100** HOSPITALITY AND  
LEISURE MANAGEMENT

**TOP 150** ART AND  
DESIGN

**TOP 150** PETROLEUM  
ENGINEERING

**TOP 250** BUSINESS AND  
MANAGEMENT STUDIES

**TOP 450** CHEMICAL  
ENGINEERING

**TOP 500** ELECTRICAL AND  
ELECTRONIC ENGINEERING

**TOP 500** COMPUTER SCIENCE  
AND INFORMATION SYSTEMS

**TOP 600** MEDICINE



UCSI University is the first and only private university in Malaysia to receive a double recognition as Regional Centre of Expertise (RCE) by the United Nations University : RCE Kuching and RCE Greater Kuala Lumpur



**100%**  
**EMPLOYABILITY  
SCORE**

for all UCSI programmes listed in the  
Malaysian Higher Education Ministry's  
Graduate Employability 2022 Survey (IPTs)



**MORE THAN 4,800**  
global companies provide  
our students with internships



of our Co-Op  
partners would  
like to hire  
UCSI interns

Students from over  
**120 NATIONS**



International students make up around  
40% of UCSI's student population



**28** **UCSI  
ACADEMICS**

are Fellows of Academy of Sciences  
Malaysia or ranked in the World's Top 2%  
Scientists by Stanford University

**>55%**

of UCSI's academic staff  
are PhD holders and a further  
16% are pursuing their doctorate



**The 1<sup>st</sup>** university in Malaysia's private higher education  
sector to offer programmes in Aquatic Science, Biotechnology,  
Food Science, Music and Nutrition



*The artist's impression of UCSI's education city in Kuala Lumpur*

## EMPOWERING CHANGEMAKERS

UCSI University is one of Asia's top private universities. It is classified in the world's top 1% in the QS World University Rankings 2025, by virtue of its top 265 ranking. UCSI was the only university to receive the QS Recognition for Improvement Award - an award given to universities that improve the most ranks on average - at the 2022 QS EduData Summit in New York. And the University has steadily enhanced its global profile over the past decade.

Changemakers study here. Four UCSI alumni are Forbes 30 Under 30 Asia inductees. From social entrepreneurship to impactful visual storytelling, they raise aspirations and win the respect of the world. Three more alumni are Prestige 40 Under 40 laureates for their contributions to Malaysia's creative industry. And many more entrepreneurs, scientists, doctors, media personalities, musicians and national athletes make up UCSI's acclaimed alumni network.

Research and scholarly pursuit are part of UCSI's DNA. The University is equipped with state-of-the-art labs that feature the latest IR4.0 technologies in engineering, medicine, pharmacy and biotechnology. Students learn from academics who are at the forefront of their respective disciplines. UCSI's collaboration with some of the world's best universities also presents invaluable opportunities for students.

Since 2014, UCSI's top students have been annually selected to advance high-impact research at Harvard University, Imperial College London, the University of Chicago, Tsinghua University, the University of Queensland and the University of British Columbia, among others. UCSI students have gone on to work with some of the world's best minds in the fields of endocrinology, nanotechnology, pharmacology and materials science, among other critical fields.

Graduate employability is another one of UCSI's calling cards. The University has a 100% employability score in the Malaysian Higher Education Ministry's Graduate Employability 2022 survey. UCSI counts over 4,800 companies in its industry network. This includes many of the world's best firms like Accenture, CIMB, Deloitte, DHL, EY, HP, HSBC, KPMG, Maybank, Nestle, Samsung, Schlumberger, P&G, Petronas and PWC, among many others. This dynamic setup facilitates internship arrangements, joint research opportunities, technology transfers and of course, job offers.

With these unique strengths and more, UCSI stands out as a university that offers an education few can, provides experiences others can't and delivers game-changing outcomes for students around the world.

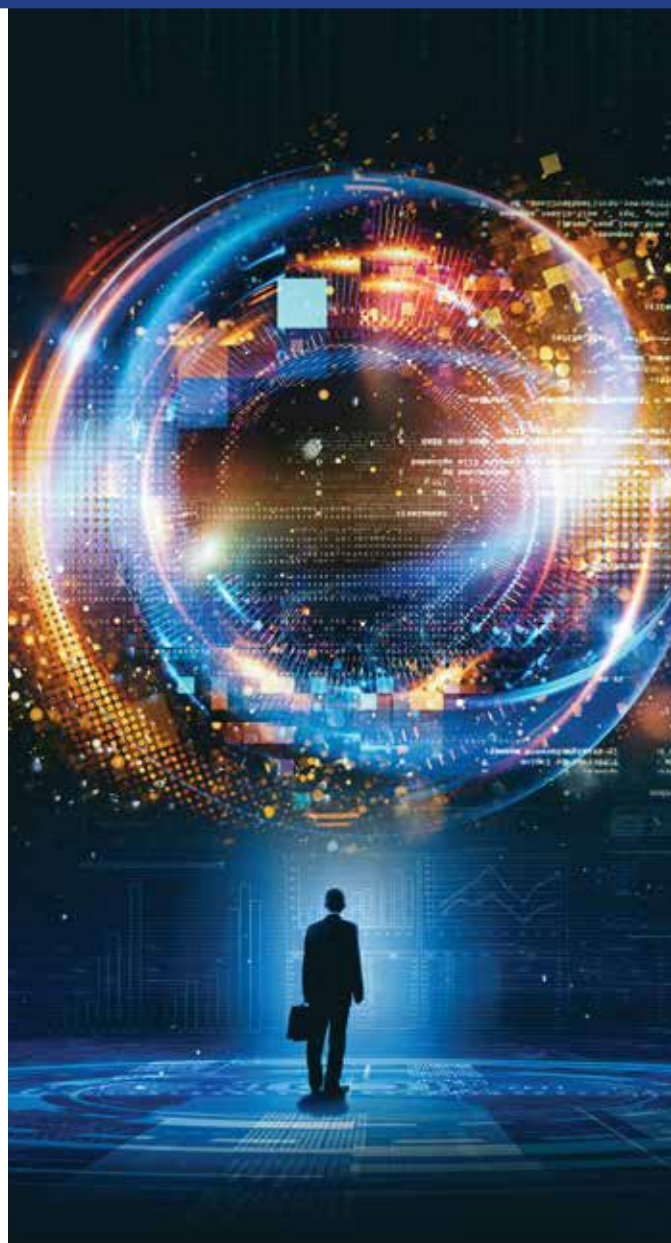
# Institute of Computer Science and Digital Innovation

*The Institute of Computer Science and Digital Innovation (ICSDI) was established with the objectives to advance innovation through technology and to ensure its graduates are prepared for various kinds of challenges posed, not just today, but also tomorrow. As such, programmes offered by the Institute are skewed towards specialisation for niche industries of the modern world.*

*By doing so, ICSDI has established relationships with key industrial partners and with these partnerships, students are allowed to attend training and other forms of sessions that would shape their mind towards developing cogent ideas for business solutions.*

*Get in touch with us and let our experts who are at the forefront of driving digital innovation guide you as you become the better version of yourself. Join us in this revolutionary movement to go beyond the ordinary and learn from the best.*

*Your journey begins here, at UCSI.*



## Why study Computer Science and Digital Innovation at UCSI?

**100% OF STAFF ARE PHD HOLDERS**

**>80% OF STAFF ARE EQUIPPED WITH THE POSTGRADUATE  
DIPLOMA IN TERTIARY TEACHING (PGDTT)**

**ACHIEVED 100% GRADUATE EMPLOYABILITY SCORE IN A  
MINISTRY OF HIGHER EDUCATION SURVEY (2022)**

**INTERNATIONAL DEGREE PATHWAYS TO  
RENOWNED UNIVERSITIES**

# Renowned Academics

Learn from a team of acclaimed professors and academics who are at the forefront of their respective disciplines. Work with them, be mentored by them and benefit from their wealth of experience.



**ASSISTANT PROFESSOR TS DR  
RAENU A/L KOLANDAISAMY**

*Director*

*PhD, MSc, BSc  
(Wireless Networking, Network Security, IoT)*



**ASSOCIATE PROFESSOR TS DR  
SHAYLA ISLAM**

*Deputy Director*

*PhD, MEng, BEng  
(Mobile Networks in heterogeneous environments, Cyber-Physical and Network Security, Internet of Things)*



**ASSISTANT PROFESSOR TS DR  
GHASSAN SALEH HUSSEIN  
AL-DHARHANI**

*Head of Department, Digital Innovation*

*PhD, MSc, BSc in Computer Science, (Artificial Intelligence, Machine Learning, and Data Mining)  
TTT Certified HRDF Trainer*



**PROFESSOR DR KURUNATHAN A/L  
RATNAVELU, FASc**

*PhD, MSc, BSc  
(Complex Network Science; Social Network Analysis)*



**ASSISTANT PROFESSOR DR ISMAIL  
AHMED AL-QASEM AL-HADI**

*Head of Praxis, Industry, and Community Engagement (PICE)*

*PhD in Intelligent Computing  
Master in Computer Science  
Bachelor in Computer Science*



**DR TARAK NANDY**

*Head of Department, Computer Science*

*PhD in Computer Systems and Technology  
Master of Technology  
Bachelor of Technology*



**DR FATIMA NADEEM SALEM AL-ASWADI**

*Head of Postgraduate Studies*

*Phd in Computer Science, Universiti Sains Malaysia  
Master of Science (Computer Science), King Abdulaziz University  
Diploma in English Language, Hodeidah University  
Bachelor of Science (Computer Science), Hodeidah University*



**ASSOCIATE PROFESSOR DR  
CHLOE THONG**

*PhD, MSc, BSc  
(Digital Innovation, Digital Transformation and Information Systems)*



**ASSISTANT PROFESSOR TS  
KASTHURI SUBARAMANIAM**

*M.Comp. Sc., B.Comp.Sc.  
(Human-Computer Interaction, Personality Types, E-Learning)*



**DR UMM E MARIYA SHAH**

*PhD in Software Engineering  
MSc in Computer Science  
BSc in Computer Science*



**DR SALEH ABDULALEM ALI MOHAMMED**

*Doctor of Philosophy (Computer Science)  
Master of Computer Science (Information Security)  
Bachelor of Science in Computer Sciences*

# Foundation

At UCSI's Institute of Computer Science and Digital Innovation, we believe in preparing for the here and now, and for the future. The Institute caters for those who wish to advance in the field of Computer Science and Information Technology and take their learning to the next level.

Emerging IR 4.0 technologies such as the Internet of Things (IoT), Cloud Computing, Machine Learning, and Data Analytics are changing how industries operate. Therefore, the demand for graduates in Computer Science and Information Technology graduates is increasing. Their knowledge and

specialisation are invaluable and will shape the very way in which we view the world.

Our faculty members are experts in their respective fields and have vast and varied experiences to share with students. Furthermore, the Foundation with Computer Science and Information Technology pathways equip students with skills such as analytical thinking, critical thinking and problem solving as well as computing knowledge, and practical skills needed to thrive in IR 4.0.

## Start Focused. Stay Ahead.

UCSI's specialised foundation pathway helps you acquire a much stronger grasp of your chosen field of study while covering the overall reach of a standard foundation programme. Apart from helping you immensely as you progress to degree studies, UCSI's foundation programme also provides you with an early taste of what the industry expects.

### Compulsory Courses

- Writing for Academic Purposes
- Critical Thinking Skills
- Computing Essentials
- Positive Psychology



### Core Courses

- Fundamentals of Ethics
- Introductory Economics
- Introduction to Business
- Introductory Accounting

### Elective Courses *(Refer to the Head of Department for Elective Course Selection)*

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Introduction to Marketing</li> <li>• Introduction to Law</li> <li>• Human Communication</li> <li>• Basic Office Application</li> <li>• Introduction to Probability &amp; Statistics</li> <li>• Fundamentals of Mathematics</li> <li>• Introduction to Language and Communication</li> <li>• Introduction to Hospitality and Tourism Industry</li> <li>• Event Management</li> <li>• Introduction to Logistics and Supply Chain Management</li> </ul> | <ul style="list-style-type: none"> <li>• Fundamentals of Programming</li> <li>• Web Development</li> <li>• Smart Learning Technology</li> <li>• Media Literacy</li> <li>• Civic Studies</li> <li>• Fundamentals of Design</li> <li>• Fundamentals of Computer Graphics</li> <li>• Analytical Drawing</li> <li>• Introduction to Structure</li> <li>• Introduction to Built Environment</li> <li>• Fundamentals of Culinary Arts</li> </ul> |
|---|--|



### English Requirement for Foundation in Arts

Candidates with a minimum grade of A2 in UEC English Language, Band 2 in MUET, 30-31 in TOEFL, 4.0 in IELTS, grade C in O-Level or IGCSE or SPM English 1119, grade B1 (with at least 2 skills at B1) in CEFR, 140 in Cambridge English Qualification, 140 in Cambridge Linguaskill, and 36 in Pearson Test are exempted from SE004 Basic English and SE005 English Foundation. Other equivalent qualification can be exempted on case-by-case basis.

Candidates who scored lower than B+ in SPM English Language or than the above requirement will have to take the SE004 Basic English subject before taking the SE005 English Foundation subject in the foundation year.

### Bachelor Degrees

- BSc (Hons) Business Information Systems
- Bachelor of Computer Science (Honours)
- Bachelor of Computer Science (Hons) Mobile Computing and Networking
- Bachelor of Computer Science in Data Science with Honours

# Diploma in Information Technology

(R2/481/4/0572) (01/2025) (A11078)



*This programme equips students with technical know-how and theoretical knowledge, especially in the area of IT project development where skills in web, database and multimedia are essential. Students will gain a solid grounding in fundamental skills, theoretical understanding and business essentials to ensure that they develop the ability to critically evaluate, design and create solutions as well as communicate ideas that meet the expected standards pertinent to the field.*

*\*This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: ge.mohe.gov.my/)*

## Subject Listing

### Year 1

- Principles of Accounting
- Business Essentials
- Quantitative Techniques
- Introduction to Statistics
- System Analysis and Design
- Java Programming 1
- Java Programming 2
- Discrete Mathematics 1
- Introduction to Information Technology
- Introduction to Internet Technologies
- Co-Operative Placement 1

### Year 2

- Fundamental of Database Systems
- Object-Oriented Modelling
- Wireless and Mobile Technologies
- Business Programming
- Business Communication for Diploma
- User Interface Design
- Operating Systems and Networks
- Basics and Practices of Marketing
- Multimedia Programming
- Creative Problem-Solving
- Computer Ethics
- Managing and Implementing Business Project
- Co-Operative Placement 2

## Career Opportunities

Computer technician | Database administrator | E-commerce specialist | IT support executive | Programmer | Software test engineer

# Bachelor of Computer Science (Hons) Mobile Computing and Networking

(R2/481/6/0178) (03/2022) (A7783)

*Rapid advances in technology have enabled computers to become smaller, faster and more powerful each day. To accommodate the accelerating shift from desktop to mobile, this programme is offering comprehensive knowledge and practical skills needed to develop sophisticated mobile applications but with a complementary focus on network design and implementation. By the end of your study, you will have discovered the far-reaching influence of computing technology and the possible contributions you may make to advance the industry.*

*\*This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: [ge.mohe.gov.my/](http://ge.mohe.gov.my/))*

## Subject Listing

### Year 1

- Introduction to Programming
- Discrete Mathematics
- Computer Organisation and Architecture
- Database Management Systems
- Object-Oriented Analysis and Design
- Object-Oriented Programming
- Introduction to Internet Technologies
- Co-Operative Placement 1

### Year 2

- Information Management for Mobile Computing
- Operating Systems
- Software Project Management
- Data Structures and Algorithms
- Networking
- Mobile Commerce
- Introduction to Human Computer Interaction
- Mobile Programming
- Research Methods in Computing
- Mobile Programming for iOS
- Trends and Issues in Networking
- Cloud Computing Application System

### Elective Course (Choose 1)

- Wireless Network Infrastructure
- Business Systems Development Tools
- Technopreneurship

### Year 3

- Network Programming
- Mobile Device Technology and Applications
- Mobile Application Development
- Mobile Computing and Networking Project 1
- Application Layer Programming
- Mobile Computing and Networking Project 2
- Mobile Services API Integration
- Network Security Design
- Co-Operative Placement 2
- Co-Operative Placement 3

### Elective Course (Choose 1)

- Wireless Communications
- Electronic Payment Systems and Security
- Web Programming

## International Degree Pathways

### • Middlesex University, UK (1+2/2+1)

- Bachelor of Science (Hons) Computer Networks
- Bachelor of Science (Hons) Computer System Engineering

### • University of the West of England, Bristol, UK (2+1)

- Bachelor of Science (Hons) Information Technology

## Career Opportunities

Mobile systems engineer | Network application analyst | Network operator | Programmer | Software analyst

# Bachelor of Science in Business Information Systems (Honours)

(R2/340/6/0481) (01/2025) (A11146)



*Designed with employability in mind, this programme provides practical computing knowledge as well as information management skills that will transform students into highly sought-after assets. Graduates will be able to create and sustain technically proficient business information systems while also demonstrating a keen understanding of the role of IT in supporting the business functions of any industry.*

*\*This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: [ge.mohe.gov.my/](http://ge.mohe.gov.my/))*

## Subject Listing

### Year 1

- Introduction to Programming
- Business Accounting
- Business Communication
- Database Systems
- Object-Oriented Programming
- Object-Oriented Analysis and Design
- Introduction to Internet Technologies
- Microeconomic
- Co-Operative Placement 1

### Year 2

- Creative Problem Solving
- Fundamentals of Management
- Statistics and its Applications
- Macroeconomic
- Fundamentals of Marketing
- Research Methods in Computing
- Business Systems Development Tools
- Software Project Management
- Operating Systems
- Networking
- Cloud Computing Application System
- Issues in Database Design

### Year 3

- International Business
- Mobile Commerce
- Independent Project 1 For BIS
- Strategic Management
- Technopreneurship
- E-Commerce
- Independent Project 2 For BIS
- Management Information Systems
- Web Programming
- Co-Operative Placement 2
- Co-Operative Placement 3

## UCSI Co-Operative Placement Programme

Our students have interned for Samsung, Huawei, Hilti and even UCSI Group's own telecommunications service, Uni Comms International.

## International Degree Pathway

- **Middlesex, UK (1+2/2+1)**
- Bachelor of Science (Hons) Business Information Systems
- Bachelor of Science (Hons) Information Technology

## Career Opportunities

Database developer | IT consultant | IT support engineer | System analyst | Web developer

# Bachelor of Computer Science (Honours)

(R2/481/6/0290) (10/2023) (A9516)



*If you are interested in obtaining the latest technical skills in computer programming and the application of innovative technology, this is the ideal programme for you. Students will be equipped with in-depth and hands-on knowledge of the principles of software design and development as well as key operational and technical aspects of computing. Students will also master the relevant industry skills such as analysis and design, programming, software building and maintenance of new developments.*

*\*This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: [ge.mohe.gov.my/](http://ge.mohe.gov.my/))*

## Programme Highlights

- Syllabus is subject to 10% alteration each semester to incorporate new developments and changes in technology.
- A strong focus on IT technical knowledge and skills like programming, database, networking and multimedia.

## Subject Listing

### Year 1

- Introduction to Programming
- Discrete Mathematics
- Computer Organisation and Architecture
- Database Management Systems
- Object-Oriented Programming
- Object-Oriented Analysis and Design
- Database Administration
- Introduction to Internet Technologies
- Co-Operative Placement 1

### Year 2

- Data Structures and Algorithms
- Mobile Commerce
- Introduction to Human Computer Interaction
- Operating Systems
- Database Design
- Research Methods in Computing
- Networking
- Software Project Management
- Multimedia Programming
- Business System Development Tools
- Cloud Computing
- Database Technology

### Year 3

- Programming for Computer Science
- Object-Oriented Methods
- Project Formulation
- Application Layer Programming
- Network Security Design
- Business Case Project
- Project Design and Implementation
- Intelligent Systems
- Web Programming
- Co-Operative Placement 2
- Co-Operative Placement 3

## International Degree Pathways

- **University Of Queensland (1.5+1.5)**
  - Bachelor of Computer Science

## • Middlesex, UK (1+2/2+1)

- Bachelor of Science (Hons) Information Technology
- **University of the West of England, Bristol, UK (2+1)**
  - Bachelor of Science (Hons) Information Technology

## Career Opportunities

Database or network administrator | Game developer | IT support engineer | Software engineer | System analyst | Web developer

# Bachelor of Computer Science in Data Science with Honours

(N/481/6/0828) (12/2025) (MQA PA 14042)

*The Bachelor of Computer Science in Data Science with Honours aims to equip graduates with specialised knowledge and sound principles to analyse and solve real-world data science problems. These are combined with sustainability and lifelong learning, further enriching the content of this programme. Furthermore, it addresses the increasing demand for graduates who possess strong analytical, ICT and other skills which will enhance their training as a data science professional. These skills can then be deployed to achieve success in their future career pathways.*

## Subject Listing

### Year 1

- Introduction to Programming
- Discrete Mathematics
- Computer Organisation and Architecture
- Database Management Systems
- Object Oriented Analysis and Design
- Object-Oriented Programming
- Introduction to Human Computer Interaction
- Statistics and its Applications
- Fundamentals of Data Science
- Co-Operative Placement 1

### Year 2

- Introduction to Cybersecurity
- Database Design
- Operating Systems
- Information Management for Data Science
- Data Structures and Algorithms
- Information and Network Security
- Artificial Intelligence
- Data Mining
- Statistics for Data Science
- Business Communications
- Fundamentals of Management

### Year 3

- Cloud Computing
- Big Data
- Digital Marketing
- Independent Project 1
- Machine Learning For Data Science
- Business Analytics
- Strategic Management
- Independent Project 2
- Co-Operative Placement 2
- Co-Operative Placement 3

## Career Opportunities

Data analyst | Data scientist | Data wrangler | Data analytics manager | Business analyst manager | Business intelligence developer | IT risk analyst | Advanced analytics professional | Data engineer | Business intelligence analyst | Machine learning scientist | Business intelligence solutions architect | Analytics manager | Data visualisation developer

# Bachelor of Computer Science in Cyber Security with Honours

(N/0613/6/0022) (07/2028) (MQA/PA 16244)



A Bachelor of Computer Science in Cyber Security is an undergraduate degree programme designed to equip students with the knowledge and skills needed to defend against cyber threats and safeguard digital systems. This comprehensive programme focuses on preparing students to become skilled professionals in the field of cybersecurity and covers a wide range of topics related to securing digital systems, networks and data from cyber threats. This includes Computer Security, Network Security, Information Systems Risk and Security and Computer Forensics. Students learn to work with cybersecurity tools, design intelligent algorithms and understand the ethical and legal implications of cybersecurity practices. Additionally, the programme covers Software Security, E-Commerce Security and Cryptography. Upon completion of the Bachelor of Cyber Security, graduates are well-prepared to protect organisations and individuals from the ever-evolving landscape of cyber threats.

## Subject Listing

### Year 1

- Introduction to Programming
- Discrete Mathematics
- Computer Organisation and Architecture
- Computer Security
- Object-oriented Programming
- Mathematics for Cyber Security
- Introduction to Internet Technologies
- Cloud Computing
- Cooperative Placement 1

#### **Elective Course**

- Database Management Systems

### Year 2

- Data Structures and Algorithms
- Introduction to Human Computer Interaction
- Operating Systems
- Security Management
- Introduction to Cryptography
- Software Security
- System Analysis and Design
- Networking
- Research Methods in Computing
- Cooperative Placement 2

#### **Elective Course (Choose 2)**

- Database Design
- Business System Development Tools
- Mobile Commerce
- Software Project Management

### Year 3

- Information Systems Risk and Security
- Project Formulation
- Application Layer Programming
- Network Security
- Project Design and Implementation
- Network Security Design
- Intelligent Systems
- Computer Forensic
- E-Commerce Security
- Cooperative Placement 3

#### **Elective Course (Choose 1)**

- Programming for Computer Science
- Web Programming
- Fuzzy System and Evolutionary Computing

## Career Opportunities

Cybersecurity analyst | Cybersecurity engineer | Cryptography engineer | Ethical hacker | Computer forensics analyst | Penetration tester | Information security consultant | Information security analyst | Malware analyst | Chief Information Security Officer (CISO) | Security Operations Center (SOC) analyst | Security architect | Security systems administrator

# Bachelor of Computer Science in Artificial Intelligence with Honours

(N/0613/6/0023) (07/2028) (MQA / PA 16245)



*The Bachelor of Computer Science in Artificial Intelligence provides students with a comprehensive education and skillset in understanding the principles, theories and applications of artificial intelligence. Throughout this AI programme, students will gain advanced knowledge and develop skills with a focus on the latest advances in various aspects of AI, including Intelligent Systems, Machine Learning, Natural Language Processing, Computer Vision, Image Processing, Cloud Computing, Web Programming and Database Technology. They learn to work with artificial intelligence tools, design intelligent algorithms, utilise evolutionary computing and employ cutting-edge tools and technologies to solve complex problems and find smart AI solutions.*

## Subject Listing

### Year 1

- Introduction to Programming
- Discrete Mathematics
- Computer Organisation and Architecture
- Database Management Systems
- Mathematics 1 for AI (Linear Algebra)
- Object-oriented Programming
- Introduction to Internet Technologies
- Knowledge Representation and Reasoning
- Information Systems Risk and Security
- Cooperative Placement 1

### Year 2

- Data Structures and Algorithms
- Database Design
- Operating Systems
- Mathematics 2 for AI (Calculus)
- Introduction to Human Computer Interaction
- Machine Learning
- Ethics in AI
- Recommender Systems
- Networking
- Software Project Management
- Database Technology
- Cooperative Placement 2

### Year 3

- Programming for Computer Science
- Fuzzy System and Evolutionary Computing
- Project Formulation
- Application Layer Programming
- Project Design and Implementation
- Image Processing
- Intelligent Systems
- Natural Language Processing
- Web Programming
- Cloud Computing
- Cooperative Placement 3

## Career Opportunities

Machine learning engineer | Computer vision engineer | Natural Language Processing (NLP) specialist | AI data scientist | AI data analyst | AI data engineer | AI ethics specialist | AI research scientist | AI software engineer | Robotics engineer | Business intelligence developer

# Hall Of Fame

## EMEST LEE XIAN ZHENG

*Alumnus, Diploma in Information Technology*

Currently a Creative Videographer at Social Grooves Solution Sdn Bhd  
Won the National BizVid Challenge besting 62 teams.

Sponsored by the Academy of Sciences Malaysia to attend a weekend photography workshop in New York City organised by National Geographic Expeditions.



## SHIN NAY LIN

*Alumna, Bachelor of Computer Science (Hons) Mobile Computing and Networking, First Class Honours*

Currently an Engineer at LM Ericsson Ltd, Ireland

Made the Dean's Honours List six times  
President, Information Technology Student Association (2015-2016)

Vice President, UCSI Scholars' Circle (2015-2016)

Pursued MSc Computing Science at University College Cork under the George Boole Scholarship 2016-2017



## MOK YUN LIU

*Alumnus, BSc (Hons) Computing*

Currently working as Lead Developer at HTM Niseko, Hokkaido, Japan  
Former Project Manager, MYCITY SME Sdn Bhd

UCSI University President's Award (2014; 2015)



## ADAM PAHLEVI BAIHAQI

*Alumnus, BSc (Hons) Computing*

Currently a software engineer at Autify.  
Previously a software engineer at Voyagin - the travel and tours division of Rakuten Inc, one of the world's largest e-commerce companies.

Previously a Ruby on Rails software engineer with a leading IT firm in Indonesia.  
An Oracle-certified associate.



## RYAN CHEN KIAT MARN

*Alumnus, BSc (Hons) Business Information Systems*

Ryan was sponsored by the US government to participate in the Global Undergraduate Students Exchange Programme. He spent one semester at Minnesota State University. Participants of this programme were selected based on academic results and leadership skills - only eight to nine Malaysian students are privileged to participate in this programme each year.



## ALICIA LIM SUET YEE

*Alumna, BSc (Hons) Business Information Systems*

Currently Project Manager at Orangesoft Sdn Bhd Year 2022



## STEVE KHIEW HOE YEAN

*Bachelor of Computer Science (Hons)*

A distinguished swimming sensation who has garnered international acclaim with the following achievements:

- Multiple national record holder (200m backstroke, 400m freestyle, 400m individual medley, 800m freestyle, 1500m freestyle)
- Two-time Southeast Asian (SEA) Games gold medallist (2021, 2023)
- Represented Malaysia at the World Aquatics Championships, Commonwealth Games, World University Games, Asian Games, and other international competitions
- Broke Malaysia's 32-year-old national record in the 1500m freestyle in 2023
- Won 4 gold medals at SUKMA in the 200m individual medley, 400m freestyle, 4x100m and 4x200m freestyle relay
- Chosen as the sportsman of SUKIPT 2022 with 11 gold medals and 1 silver
- Recipient of the UCSI University Trust sports bursary



# Facilities

These facilities including the IT Lab and the Computer Labs provide enough work stations to advance knowledge as well as for research. Students will get to experience a conducive and efficient environment suitable for any study purpose or task that is undertaken.



The 8 Computer labs at UCSI University are equipped with over 400 PCs and 15 servers which are connected to the campus local area network.



ICSDI Post graduate and R&D lab mainly use for postgraduate research. Its equipped with Mac Pc, Windows based computer, Iphones, I pads and Android Based Smartphones.

## Collaboration Partners



**EC-Council**

 **Alibaba Cloud**

# Academic Requirements

QUALIFICATIONS	FOUNDATION IN ARTS	DIPLOMA IN INFORMATION TECHNOLOGY	BACHELOR OF COMPUTER SCIENCE (HONS) MOBILE COMPUTING AND NETWORKING	BACHELOR OF COMPUTER SCIENCE (HONOURS)	BSC (HONS) BUSINESS INFORMATION SYSTEMS
UCSI Foundation in Arts or equivalent	N/A	N/A	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level.	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level.	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level.
SPM/O-Level	Pass with 5 credits (C) including Mathematics (C)	Pass with 3 credits (C), including Mathematics (C)	N/A	N/A	N/A
STPM	N/A	Pass with 1 principal (C), and a credit (C) in Mathematics at SPM/O-Level	(Science stream) CGPA of 2.0 and Credit (C) in Mathematics and one Science/ICT or Additional Mathematics at SPM level or Mathematics and one Science/ICT at SPM Level	(Science stream) CGPA of 2.0 and Credit (C) in Mathematics and one Science/ICT or Additional Mathematics at SPM level or Mathematics and one Science/ICT at SPM Level	Minimum 2 principals (C) (CGPA 2.0) in 2 subjects and pass in Mathematics and English at SPM Level
A-Level	N/A	1 subject (D) and credit (C) in Mathematics at SPM/O level.	Minimum 2Ds with grade D in Mathematics and one Science/ICT in A-level / STPM or Credit (C) in Additional Mathematics at SPM level or Mathematics SPM Level	Minimum 2Ds with grade D in Mathematics and one Science/ICT in A-level / STPM or Credit (C) in Additional Mathematics at SPM level or Mathematics SPM Level	Minimum 2 D's in 2 subjects and pass in Mathematics and English at SPM Level
UEC	Pass with minimum 3 credits (B6), including Mathematics	Pass with minimum Grade (B) in 3 subjects, including Mathematics	5 credits (B6), including Additional Mathematics	5 credits (B6), including Additional Mathematics	Minimum 5 credits (B6), including Mathematics
National Matriculation	N/A	N/A	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level	Minimum CGPA of 2.0, inclusive of a minimum Credit (C) in Mathematics at SPM
International Baccalaureate	N/A	N/A	26 points in 6 subjects, and credit (C) in Additional Mathematics at SPM/O-Level/ equivalent	26 points in 6 subjects, and credit (C) in Additional Mathematics at SPM/O-Level/equivalent	Minimum score of 26 points in 6 subjects and minimum Credit (C) in Mathematics at SPM/O-Level/equivalent
Canadian Pre-U	N/A	N/A	Average of 60% in 6 subjects, inclusive of 60% score in Mathematics and credit (C) in Additional Mathematics at SPM/O-Level/equivalent	Average of 60% in 6 subjects, inclusive of 60% score in Mathematics and credit (C) in Additional Mathematics at SPM/O-Level/equivalent	Minimum average of 60% in 6 subjects, inclusive of minimum 60% score in Mathematics and minimum Credit (C) in Mathematics at SPM/O-Level/equivalent
AUSMAT/HSC/SACE/TEE/WACE/SAM	N/A	N/A	Average of 60% in 5 subjects, inclusive of 60% score in Mathematics and minimum credit (C) in Additional Mathematics at	Average of 60% in 5 subjects, inclusive of 60% score in Mathematics and minimum credit (C) in Additional Mathematics at	Minimum average of 60% in 5 subjects, inclusive of minimum 60% score in Mathematics and minimum Credit (C) in Mathematics at SPM/O-Level/equivalent
Australian Year 12	N/A	N/A	Average of 60% in 5 subjects, inclusive Mathematics and one Science/ICT.	Average of 60% in 5 subjects, inclusive Mathematics and one Science/ICT.	Credit (C) in Mathematics subject
Other qualifications deemed equivalent to SPM/O Level by MQA	N/A	Minimum overall average of 50% including minimum 50% score in Mathematics	Minimum overall average of 60%, inclusive of minimum 60% score in Additional Mathematics	N/A	N/A
Other qualifications deemed equivalent to STPM/A-Level by MQA	N/A	Minimum overall average of 50% including minimum 50% score in Mathematics	Minimum overall average of 60% inclusive of minimum 60% score in Additional Mathematics	Minimum overall average of 60%, inclusive of minimum 60% score in Additional Mathematics	Minimum overall average of 60%, inclusive of minimum 60% score in Mathematics
Other qualifications	Any other equivalent qualifications recognised by the Malaysian Government	Any other equivalent qualification recognised by the Malaysian Government subject to case-to-case basis			
Diploma Programmes	N/A	N/A	Computing and ICT-related diploma CGPA 2.5 and credit (C) in Mathematics at SPM/O-Level/equivalent	Computing and ICT-related diploma CGPA 2.5 and credit (C) in Mathematics at SPM/O-Level/equivalent	Computing and ICT-related diploma CGPA 2.5 and credit (C) in Mathematics at SPM/O-Level/equivalent
Computer-Related Certificate, SKM, SKK, (MQF Level 3)	N/A	Pass Level 3 with a credit (C) in Mathematics or Pass "Program Pengukuhan Matematik"	N/A	N/A	N/A
Diploma in Science and Technology			ICT-related diploma CGPA 2.75 and credit (C) in Mathematics at SPM/O-Level/equivalent	ICT-related diploma CGPA 2.75 and credit (C) in Mathematics at SPM/O-Level/equivalent	ICT-related diploma CGPA 2.75 and credit (C) in Mathematics at SPM/O-Level/equivalent

# Academic Requirements

QUALIFICATIONS	BACHELOR OF COMPUTER SCIENCE IN DATA SCIENCE WITH HONOURS	BACHELOR OF COMPUTER SCIENCE IN ARTIFICIAL INTELLIGENCE (HONS)	BACHELOR OF COMPUTER SCIENCE IN CYBER SECURITY (HONS)
<b>UCSI Foundation in Arts or equivalent</b>	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level.	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level.	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level.
<b>SPM/O-Level</b>	N/A	N/A	N/A
<b>STPM</b>	(Science or Arts stream) CGPA of 2.0 and Credit (C) in Mathematics and one Science/ICT or Additional Mathematics at SPM level or Mathematics and one Science/ICT at SPM Level	(Science stream) CGPA of 2.0 and Credit (C) in Mathematics and one Science/ICT or Additional Mathematics at SPM level or Mathematics and one Science/ICT at SPM Level	(Science stream) CGPA of 2.0 and Credit (C) in Mathematics and one Science/ICT or Additional Mathematics at SPM level or Mathematics and one Science/ICT at SPM Level
<b>A-Level</b>	Minimum 2Ds with grade D in Mathematics and one Science/ICT in A-level / STPM or Credit (C) in Additional Mathematics at SPM level or Mathematics SPM Level	Minimum 2Ds with grade D in Mathematics and one Science/ICT in A-level / STPM or Credit (C) in Additional Mathematics at SPM level or Mathematics SPM Level	Minimum 2Ds with grade D in Mathematics and one Science/ICT in A-level / STPM or Credit (C) in Additional Mathematics at SPM level or Mathematics SPM Level
<b>UEC</b>	5 credits (B6), including Additional Mathematics	5 credits (B6), including Additional Mathematics	5 credits (B6), including Additional Mathematics
<b>National Matriculation</b>	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level	CGPA 2.0, and credit (C) in Additional Mathematics or credit (C) in Mathematics and one of the Science, Technology or Engineering subjects at SPM level
<b>International Baccalaureate</b>	26 points in 6 subjects, and credit (C) in Additional Mathematics at SPM/O-Level/ equivalent	26 points in 6 subjects, and credit (C) in Additional Mathematics at SPM/O-Level/ equivalent	26 points in 6 subjects, and credit (C) in Additional Mathematics at
<b>Canadian Pre-U</b>	Average of 60% in 6 subjects, inclusive of 60% score in Mathematics and credit (C) in Additional Mathematics at SPM/ O-Level/equivalent	Average of 60% in 6 subjects, inclusive of 60% score in Mathematics and credit (C) in Additional Mathematics at SPM/ O-Level/equivalent	Average of 60% in 6 subjects, inclusive of 60% score in Mathematics and credit (C) in Additional Mathematics at SPM/ O-Level/equivalent
<b>AUSMAT/HSC/ SACE/TEE/WACE/ SAM</b>	Average of 60% in 5 subjects, inclusive of 60% score in Mathematics and minimum credit (C) in Additional Mathematics at SPM/O-Level/ equivalent	Average of 60% in 5 subjects, inclusive of 60% score in Mathematics and minimum credit (C) in Additional Mathematics at SPM/O-Level/ equivalent	Average of 60% in 5 subjects, inclusive of 60% score in Mathematics and minimum credit (C) in Additional Mathematics at SPM/O-Level/ equivalent
<b>Australian Year 12</b>	Average of 60% in 5 subjects, inclusive Mathematics and one Science/ICT.	Average of 60% in 5 subjects, inclusive Mathematics and one Science/ICT.	Average of 60% in 5 subjects, inclusive Mathematics and one Science/ICT.
<b>Other qualifications deemed equivalent to SPM/O Level by MQA</b>	N/A	N/A	N/A
<b>Other qualifications deemed equivalent to STPM/A-Level by MQA</b>	Minimum overall average of 60%, inclusive of minimum 60% score in Additional Mathematics	Minimum overall average of 60%, inclusive of minimum 60% score in Additional Mathematics	Minimum overall average of 60%, inclusive of minimum 60% score in Additional Mathematics
<b>Other qualifications</b>	Any other equivalent qualification recognised by the Malaysian Government subject to case-to-case basis		
<b>Diploma Programmes</b>	Computing and ICT-related diploma CGPA 2.5 and credit (C) in Mathematics at SPM/ O-Level/equivalent	Computing related diploma CGPA 2.5 and credit (C) in Mathematics at SPM/ O-Level/equivalent	Computing and ICT-related diploma CGPA 2.5 and credit (C) in Mathematics at SPM/ O-Level/equivalent
<b>Computer-Related Certificate, SKM, SKK, (MQF Level 3)</b>	N/A	N/A	N/A
<b>Diploma in Science and Technology</b>	ICT-related diploma CGPA 2.75 and credit (C) in Mathematics at SPM/ O-Level/equivalent	ICT-related diploma CGPA 2.75 and credit (C) in Mathematics at SPM/ O-Level/equivalent	ICT-related diploma CGPA 2.75 and credit (C) in Mathematics at SPM/ O-Level/equivalent

Note :-

- Students who have not obtained credit in mathematics can still enrol in our degree programme by completing Reinforcement Mathematics.
- Successful completion of Reinforcement Mathematics is a prerequisite for taking related core courses. Candidates are permitted to sit for subjects that do not require Mathematics as a prerequisite.

# English Language Requirements

STUDENTS (LOCAL/ INTERNATIONAL)	QUALIFICATIONS	DIPLOMA IN INFORMATION TECHNOLOGY	BACHELOR OF COMPUTER SCIENCE (HONS) MOBILE COMPUTING AND NETWORKING BACHELOR OF COMPUTER SCIENCE (HONOURS) BACHELOR OF COMPUTER SCIENCE IN DATA SCIENCE	BSC (HONS) BUSINESS INFORMATION SYSTEMS
Local Students	SPM English Language	A Minimum grade of B+		
	English language 1119/O-Level English/ IGCSE	A minimum grade of C		
	UEC English Language	A Minimum grade of A2		
	MUET (Malaysian University English Test)	Band 2	Band 3	Band 3
	Note: In the event that the English language requirements are not met, applicants will be required to take the Basic English and English Foundation for in-session academic enhancement concurrently with the programmes. Applicants who have an academic qualification from a higher learning institution which uses the English Language as a medium of instruction may be granted an exemption from the University English Language requirements.			
International Students	MUET (Malaysian University English Test)	Band 2	Band 3	Band 3
	IELTS	Band 4	Band 5.0	Band 5.5
	TOEFL iBT	A Minimum Score of 30-31	A Minimum Score of 42	A Minimum Score of 46
	Pearson Test of English	A Minimum Score of 36	A Minimum Score of 47	A Minimum Score of 51
	Cambridge English Qualification and Tests	A Minimum Score of 140	A Minimum Score of 154	A Minimum Score of 160
	Cambridge Linguaskill	A Minimum Score of 140	A Minimum Score of 154	A Minimum Score of 160
	TOEFL PBT	397	N/A	N/A
Note: International applicants who do not meet the respective academic programme's English Language Requirement will need to improve their proficiency by enrolling into the English for Tertiary Education programme (R/KJP/00920-00929) which helps them prepare for attaining a required band score. Placement into the various levels of the English for Tertiary Education programme depends on the English Language qualification students have at the point of admission and/or the outcome of the English Placement Test. The applicants who have met the respective academic programme's English Language Requirement may be advised by Faculty to improve their proficiency by undertaking the additional English proficiency courses. Applicants who have an academic qualification from a higher learning institution which uses the English Language as a medium of instruction may be granted an exemption from the University English Language requirements.				

## General Courses (MPU)

### COMPULSORY FOR ALL STUDENTS

DIPLOMA PROGRAMMES		DEGREE PROGRAMMES	
MALAYSIAN STUDENTS	INTERNATIONAL STUDENTS	MALAYSIAN STUDENTS	INTERNATIONAL STUDENTS
• U1 – Penghayatan Etika dan Peradaban	• U1 – Communication in Bahasa Melayu II	• U1 – Penghayatan dan Peradaban	• U1 – Communication in Bahasa Melayu III
ALL STUDENTS		ALL STUDENTS	
• U2/U3 – Entrepreneurship • U4 – Extra-Curricular Learning Experience 1-2		• U1 – Philosophy and Contemporary Issues • U2/U3 – University Life • U4 – Extra-Curricular Learning Experience 1-3	



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