

CREATING
A DIGITAL
NATION
THROUGH

UNIMY

UNIVERSITY MALAYSIA
OF COMPUTER SCIENCE
& ENGINEERING

Wholly Owned by



COMPUTING

EXPLORE THE TECHNOLOGY OF TOMORROW



e-BRANDING AWARD 2020
(EDUCATION COMPUTER
SCIENCE & ENGINEERING)



DISCOVER COMPUTING

@ UNIMY

COMPUTING is part of everything we do! While computing focuses on designing and creating software systems, it is actually about much more than that. The topic is a fast-growing and diverse discipline that has become an integral part of the world in which we live in today.

At UNIMY, computing students study the design, development and analysis of software that are prominent in the digital technology world. Having a qualification in this area will give you a deep understanding of theories and developments that are evolving. The knowledge and experience gained will allow students to build cutting-edge solutions to tackle the technology challenges of today.

Why Computing @ UNIMY?

- ✓ Students will be exposed to the key areas of Computer Science and Software Engineering including programming, development concepts, project management, database, and networking.
- ✓ Collaboration with global industry leaders such as CompTIA, Microsoft, AWS to provide certification programmes to students.
- ✓ Opportunity to experience academic final year degree in the United Kingdom through the articulation programmes.
- ✓ Strong link and real-life industry exposure through projects mentored by industry leaders.
- ✓ Up to 6 months of internship and practical experience to provide students with practical skills, workplace experience, and greater knowledge of the industry.
- ✓ Employability skills are embedded into the curriculum to prepare students for the working life.

Why Study @ UNIMY?

PREMIER
DIGITAL
TECHNOLOGY
UNIVERSITY

8 TECH
FOCUS
AREAS
FOR IR 4.0

OWNED
BY THE
INDUSTRY -
*More job
opportunity and
exposure for
students*

**WORK
READY,
GLOBAL
READY**
GRADUATES

100%
JOB EMPLOYABILITY
WITHIN
6 MONTHS*

*Based on 2019 data

EXPERIENCED
LECTURERS
ACTIVELY
INVOLVED IN
RESEARCH &
INNOVATION

UNIMY'S 8 FOCUS AREAS



IOE [INTERNET
OF EVERYTHING]



AI & INTELLIGENT
MACHINE



CLOUD
COMPUTING



XR [AR,
VR, MR]



CYBER
SECURITY



HUMAN-MACHINE
INTERACTION



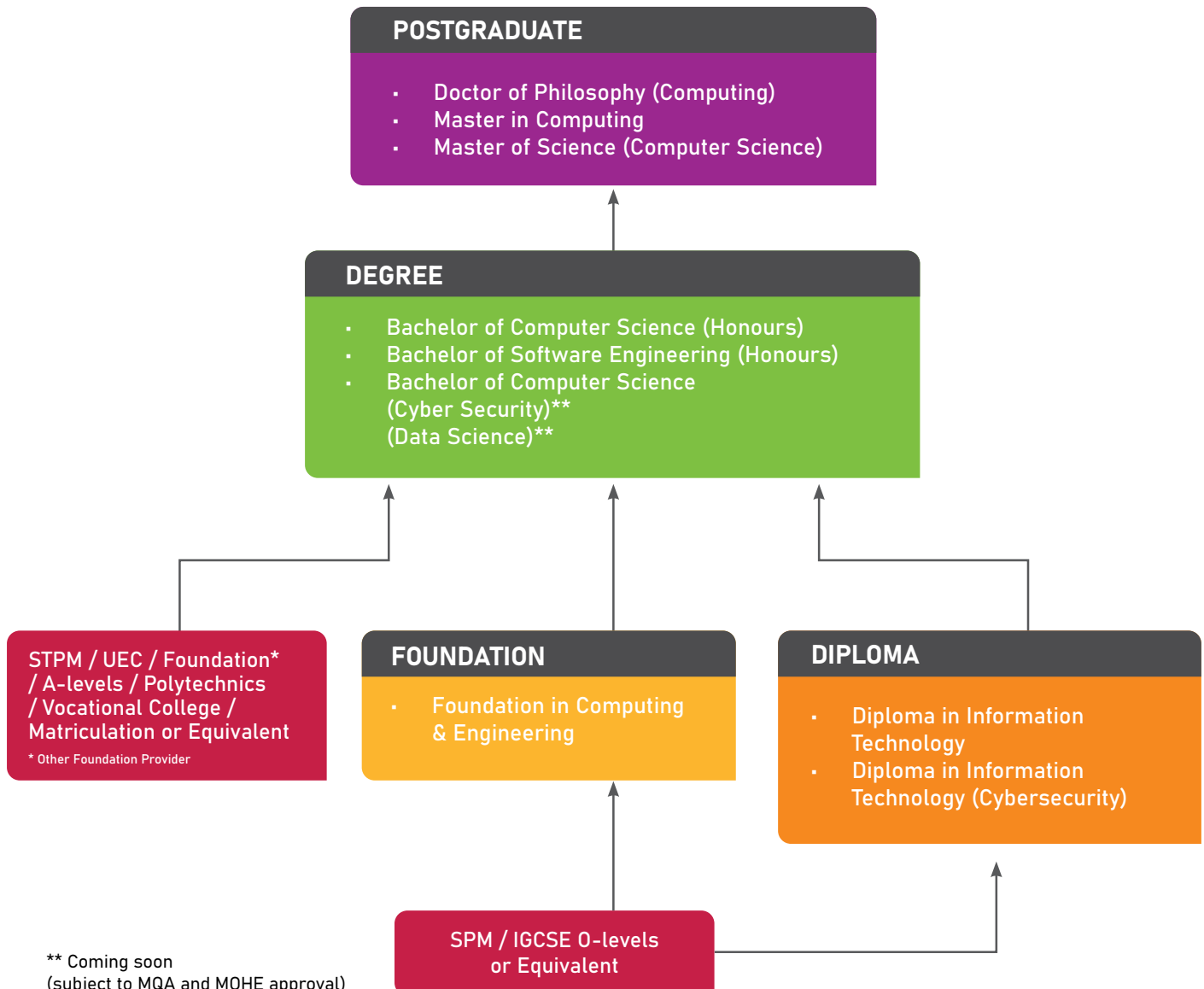
CODING
DEVELOPMENT
& OPERATION



BUSINESS
TECHNOLOGY

EDUCATION PATHWAY

FOR COMPUTING @UNIMY



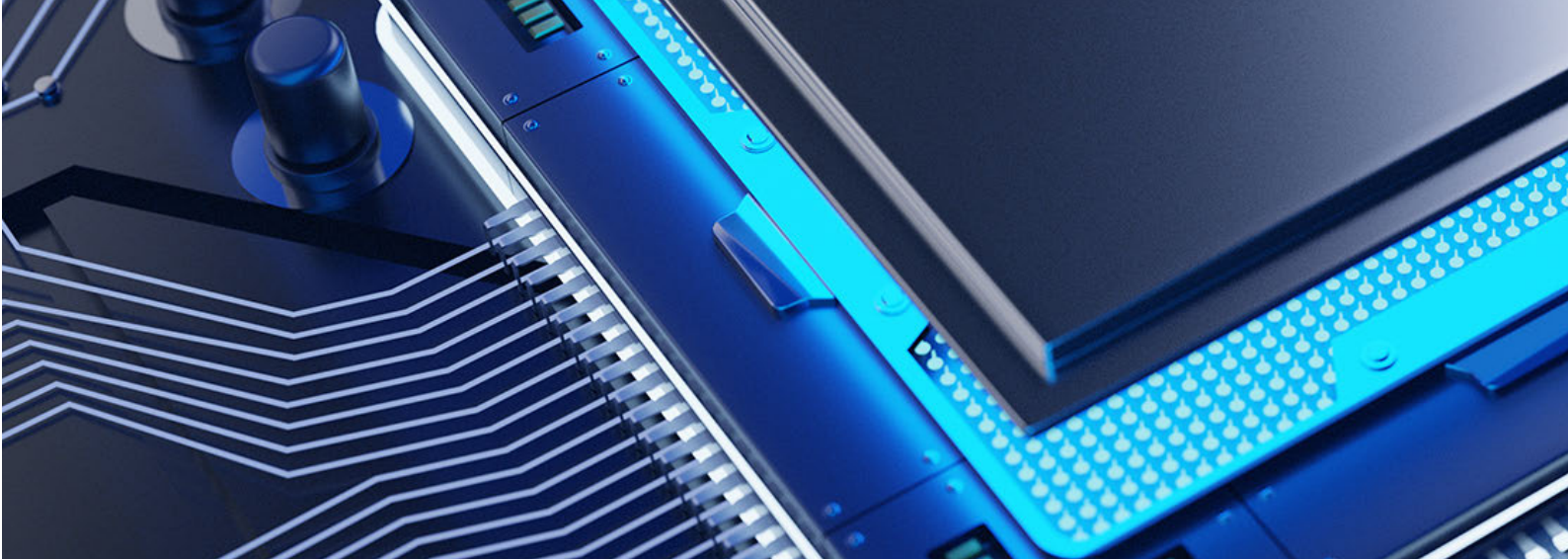


PROGRAMMES OFFERED FOR COMPUTING @UNIMY

FOUNDATION IN COMPUTING & ENGINEERING KPT/JPS (R/010/3/0144) | MQA/FA 3180

This programme is designed to equip students with the basic sciences, mathematics, critical thinking, entrepreneurial knowledge, communication skills, and most importantly the fundamental of computer science and computer engineering to prepare them for admission into relevant undergraduate programmes. A unique feature of our Foundation in Computing and Engineering programme is that we offer a selection of elective subjects that cater to different interests and pathways to UNIMY undergraduate programmes. Thus, prospective students will be equipped with the relevant knowledge and skills prior to admission into those programmes.

INTAKE : February, May & September		DURATION : 1 Year	
SEMESTER 1	SEMESTER 2	SEMESTER 3	
<ul style="list-style-type: none">• English 1• Mathematics 1• Fundamental to Physics• Fundamental to Computing• Presentation Skills	<ul style="list-style-type: none">• English 2• Mathematics 2• Fundamental to Logic and Electricity• Introduction to Programming	<ul style="list-style-type: none">• Fundamental to Probability and Statistics• Creative Thinking• Fundamental to Business Management• Introduction to Emerging Science and Technology	

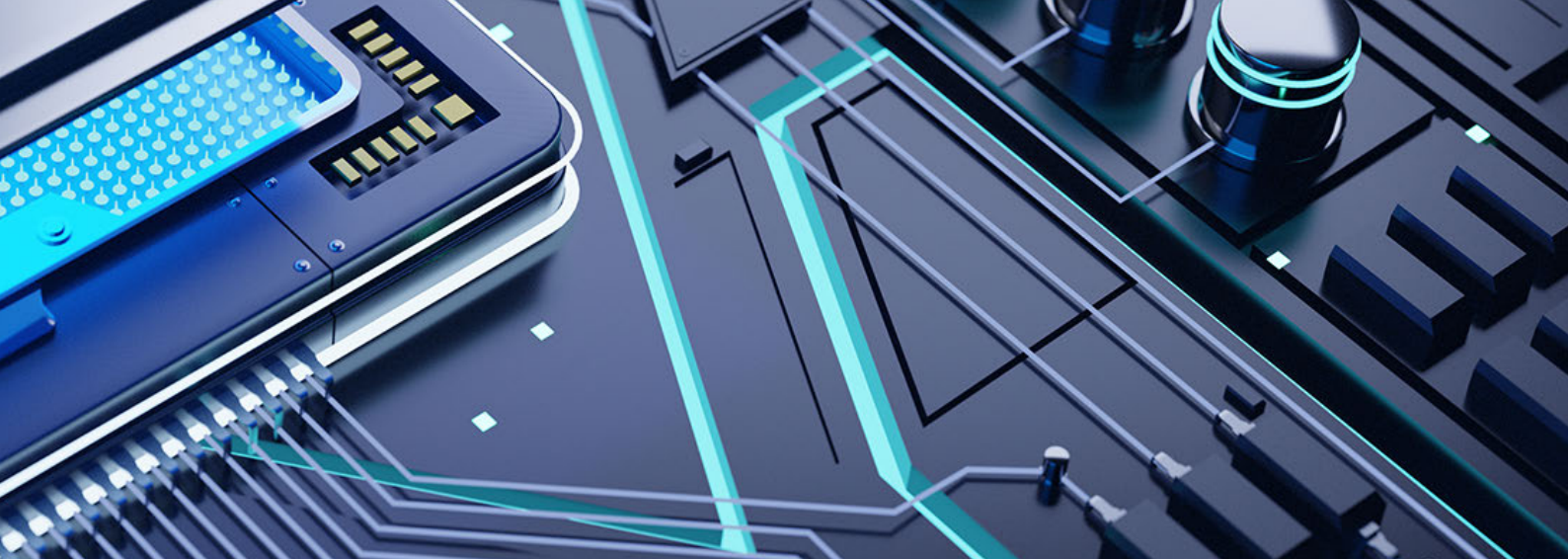


DIPLOMA IN INFORMATION TECHNOLOGY KPT/JPS (R/482/4/0091) | MQA/FA 6625

Students will be exposed to an in-depth curriculum that provides them with comprehensive understanding of the concepts, principles and techniques required in the study of the Internet infrastructure, architecture, standards and network systems. Graduates of the programme will be equipped with up-to-date theoretical and applied knowledge as well as networking skills for installing, designing, building, maintaining and troubleshooting appropriate network solutions via hands-on experience

INTAKE : February, May & September		DURATION : 3 Years (6 Long Semesters + 2 Short Semesters)	
CORE COURSES		SPECIALISATION COURSES	ELECTIVE COURSES
<ul style="list-style-type: none"> • Systems Analysis and Design • Object Oriented Programming Fundamentals • Operating Systems Concepts • Database Information Systems • Networking Fundamentals • Final Year Project • Introduction to Computing • Problem Solving and Programmin • Effective Communication – Workplace and Persuasive Presentation • Computing Mathematics I • Computing Mathematics II • Cyberpreneurship 		<ul style="list-style-type: none"> • Digital and Cyber Laws • Fundamental Data Structures and Algorithms • Web Applications Development • Introduction to Information Security • Internetworking Technologies • Mobile and Wireless Networking • Network Infrastructure • Project Management Fundamentals • Internet Server Technologies • Data Centre and Cloud Management 	<ul style="list-style-type: none"> • Enterprise Networking • Basic Information Technology Security • Internetworking Security • Information Technology Security Management and Audit • Introduction to Ethical Hacking and Intrusion Prevention • Forensics in Digital Security
MPU COURSES* (Choose 1)			INDUSTRIAL TRAINING
<ul style="list-style-type: none"> • Pengajian Malaysia II • Cognitive Process and Problem Solving • Issues on Economics • Co-Curriculum (Badminton)* • Co-Curriculum (Kayaking)* 			<ul style="list-style-type: none"> • Practical Training

CAREER PROSPECTS		
<ul style="list-style-type: none"> • Cloud Operation Engineer • IT Analyst • IT Support Personnel 	<ul style="list-style-type: none"> • IT Consultant • IT Security Specialist • IT Service Management Specialist • Network Administrator 	<ul style="list-style-type: none"> • Network Engineers • Network Support Engineer • Software Developer • System Consultant • Web and Software Developer



DIPLOMA IN INFORMATION TECHNOLOGY (CYBER SECURITY) KPT/JPS (R/482/4/0095) | MQA/FA 6624

Grooming students for entry-level cybersecurity positions, the programme exposes students to the principles and practices of digital and cybersecurity. It aims to equip students with analytical and technical skills necessary in the areas of network and software security as well as digital forensics. Students will be dealing with installing and configuring critical software, monitoring networks, responding to cyber attacks, assessing threats, besides finding and fixing vulnerabilities. Graduates of the programme will become cybersecurity specialists who will be capable of helping their organisations to secure computer and network resources as well as critical and sensitive information.

INTAKE : February, May & September		DURATION : 2.5 Years (5 Long Semesters + 2 Short Semesters)	
CORE COURSES	GENERAL COURSES	SPECIALISATION COURSES	
<ul style="list-style-type: none"> Computer Architecture Object-Oriented Programming Fundamentals Operating Systems Concepts Database Management Systems Final Year Project Systems Analysis and Design 	<ul style="list-style-type: none"> Introduction to Computing Problem Solving and Programming Effective Communication – Workplace and Persuasive Presentation Computing Mathematics I Computing Mathematics II Cyberpreneurship 	<ul style="list-style-type: none"> Networking Fundamentals Introduction to Information Security Digital and Cyber Laws Internetworking Security Internetworking Technologies Secure Software Information Technology Security Management and Audit Risk Management Internet Server Technologies Introduction to Ethical Hacking and Intrusion Prevention Introduction to Ethical Hacking and Intrusion Prevention 	
ELECTIVE COURSES	MPU COURSES* (Choose 1)	INDUSTRIAL TRAINING	
<ul style="list-style-type: none"> Introduction to Human Computer Interaction Introduction to Cryptography Cloud and Service Computing Network Infrastructure Basic Concepts of Marketing 	<ul style="list-style-type: none"> Pengajian Malaysia II Cognitive Process and Problem Solving Issues in Malaysian Economy Co-Curriculum (Badminton)* Co-Curriculum (Kayaking)* 	<ul style="list-style-type: none"> Practical Training 	

CAREER PROSPECTS		
<ul style="list-style-type: none"> IT Security Analyst IT Security Engineer IT Security Consultant 	<ul style="list-style-type: none"> Computer Forensic Examiner IT Security Officer Network Security Administrator Information Security Consultant Security Penetration Tester 	<ul style="list-style-type: none"> Software Security Specialist Digital Forensics Scientist Malware Analyst Cyber Security Auditor Computer Forensics Investigator

BACHELOR OF COMPUTER SCIENCE (HONOURS) KPT/JPS (R/481/6/0295) | MQA/FA 2692

Students will learn the solid core of computer science through a mix of theoretical and practical experience. Graduates of the programme will be equipped with excellent programming skills and capable of designing, implementing and optimising innovative software applications. As computer science is a rapidly evolving discipline with strong links to many other fields, the programme will also provide them with unparalleled flexibility to pursue their interests with the ability to gain in-depth knowledge in other areas.

INTAKE : February, May & September		DURATION : 3 Years (6 Long Semesters + 3 Short Semesters)	
CORE COURSES	SPECIALISATION COURSES	FREE COURSES (Non-Computing)	
<ul style="list-style-type: none"> Mathematics I Mathematics II Probability and Statistic Programming Technique Data Structure and Algorithm Database System Development Computer Organization and Architecture Operating System Data Communication and Network Object Oriented Programming Artificial Intelligence Human-Computer Interaction Software Engineering Software Project Management Final Year Project I Final Year Project II 	<ul style="list-style-type: none"> Information Assurance and Security Computer Science Theory Programming Paradigms Programming Language Design and Semantic Compiler and Program Analysis Algorithm Design and Analysis Principle and Application of Parallel Programming Distributed Application Development 	<ul style="list-style-type: none"> Third Language Professional Communication Research and Innovative Thinking Industrial Workshop 	
ELECTIVE COURSES (Choose 4)	MPU COURSES (**To be taken by international students)	INDUSTRIAL TRAINING	
<ul style="list-style-type: none"> Database Server Administration Fundamental I Database Server Administration Fundamental II Dynamic Web System Development Quality Assurance and Software Testing Ethical Hacking Information Technology System Security Network Defence Information Technology Management (MIS) Fiber Optic Interconnect Network Infrastructure I Interconnect Network Infrastructure II Networking Systems and Technology Media Digital Production Project Management Integration Integrated Software Development 	<ul style="list-style-type: none"> Pengajian Malaysia III Cognitive Process and Problem Solving Issues in Malaysian Economy Co-Curriculum (Badminton)* Co-Curriculum (Kayaking)* <p><i>*Choose only ONE</i></p>	<ul style="list-style-type: none"> Industrial Training 	

CAREER PROSPECTS		
<ul style="list-style-type: none"> Computer Scientist Software Engineer/Manager Systems Analyst/Engineer Computer Information Research Scientist Computer Hardware Engineer/ 	<ul style="list-style-type: none"> Manager Computer Network Engineer/ Architect/Administrator/Manager Information Systems Adminnistrator/ Manager Computer Lecture/University Academician/Corporate Trainer Project Manager 	<ul style="list-style-type: none"> Computer/Technical Consultant Computer and information System Manager Computer and information Security Engineer/Manager Chief Technology/information Officer Bioinformatics Specialist Information Security Consultant

BACHELOR OF SOFTWARE ENGINEERING (HONOURS) KPT/JPS (R/481/6/0296) | MQA/FA 2693

This programme provides students with the knowledge and skills that go beyond programming to develop complex but reliable, safe and efficient software systems. The core curriculum builds on top of computer science fundamentals covering topics ranging from planning, analysing, designing, implementing, verifying, validating, deploying and maintaining essential to the successful engineering. Graduates of the programme will have strong technical, process, communication and teamwork skills to be immediately productive in the industry.

INTAKE : February, May & September		DURATION : 3 Years (6 Long Semesters + 3 Short Semesters)	
CORE COURSES	SPECIALISATION COURSES	FREE COURSES (Non-Computing)	
<ul style="list-style-type: none"> Mathematics I Mathematics II Probability and Statistic Programming Technique Data Structure and Algorithm Database System Development Computer Organization and Architecture Operating System Data Communication and Network Object Oriented Programming Computer Science Theory Human-Computer Interaction Formal Method Software Engineering Software Project Management Software Testing and Quality Assurance Software Requirement Engineering Final Year Project I Final Year Project II 	<ul style="list-style-type: none"> Service-oriented Architecture Mobile Software Engineering Mobile Device Programming Mobile System Mobile Electronic Commerce 	<ul style="list-style-type: none"> Third Language Professional Communication Research and Innovative Thinking Industrial Workshop 	
ELECTIVE COURSES (Choose 4)	MPU COURSES (**To be taken by international students)	INDUSTRIAL TRAINING	
<ul style="list-style-type: none"> Database Server Administration Fundamental I Database Server Administration Fundamental II Dynamic Web System Development Quality Assurance and Software Testing Ethical Hacking Information Technology System Security Network Defence Information Technology Management (MIS) Fiber Optic Interconnect Network Infrastructure I Interconnect Network Infrastructure II Networking Systems and Technology Media Digital Production Project Management Integration Integrated Software Development 	<ul style="list-style-type: none"> Hubungan Etnik (Ethnic Relations) Tamadun Islam dan Tamadun Asia (TITAS) Pengajian Malaysia III** Bahasa Melayu Komunikasi II** Cyberpreneurship Computing and Society Co-Curriculum (Badminton)* Co-Curriculum (Kayaking)* Co-Curriculum (Choral Training)* Co-Curriculum (Self Defence)* <p><i>*Choose only ONE</i></p>	<ul style="list-style-type: none"> Industrial Training 	

CAREER PROSPECTS

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Mobile Computing Developer Software Engineer/Architect/Manager Software Developer/Designer Systems Analyst/Engineer | <ul style="list-style-type: none"> Network Engineer/Administrator/Manager Systems Administrator/Manager Database Administrator/Manager Computer Lecturer/University Academician | <ul style="list-style-type: none"> Project Manager Computer and Information System Manager Web Developers Application/Games Developer/Engineer Information Security Consultant |
|--|---|---|

ADMISSION REQUIREMENTS

FOUNDATION IN COMPUTING & ENGINEERING

- Pass SPM /SPVM with at least Credit in any 5 Subjects; *OR*
- Pass IGCSE / O-LEVEL with a minimum of Grade C in any 5 Subjects; *OR*
- Pass UEC with a minimum of Grade B in any 3 subjects; *OR*
- Any equivalent qualification recognised by the Government of Malaysia

DIPLOMA IN INFORMATION TECHNOLOGY / DIPLOMA IN INFORMATION TECHNOLOGY (Cyber Security)

- Pass SPM /SPVM with at least Credit in any 3 Subjects inclusive of Mathematics; *OR*
- Pass IGCSE / O-LEVEL with a minimum of Grade C in any 3 Subjects inclusive of Mathematics; *OR*
- Pass SKM LEVEL 3 in a related field *and* required to attend a bridging programme; *OR*
- Pass UEC with a minimum of Grade B in any 3 Subjects inclusive of Mathematics; *OR*
- Any equivalent qualification recognised by the Government of Malaysia

BACHELOR OF COMPUTER SCIENCE WITH HONOURS / BACHELOR OF SOFTWARE ENGINEERING WITH HONOURS

- **FOUNDATION or MATRICULATION** qualification with a minimum CGPA of 2.00 and
 - a Credit in Additional Mathematics at SPM Level or its equivalent; *OR*
 - a Credit in Mathematics and any one Science or ICT subjects at SPM or its equivalent.Candidates need to do a Pre-Requisite Module: Mathematics 1 in The First Semester of Degree Programme. *OR*
- **DIPLOMA**
 - in the Computing field with a minimum CGPA of 2.50; *OR*
 - in Science and Technology field with a minimum CGPA of 2.50Note: Candidates with CGPA below 2.50 and above 2.00 may be accepted using rigorous assessment conducted by UNIMY and subjected to the approval by the Senate of the University. *OR*
- Pass STPM with minimum Grade C (GPA 2.0) in
 - Mathematics and one Science or ICT Subject for Science Stream; *OR*
 - any 2 Subjects and a Credit in Additional Mathematics at SPM Level or its equivalence; *OR*
 - any 2 Subjects and a Credit in Mathematics and any one Science or ICT subjects at SPM or its equivalent.Candidates need to do a Pre-Requisite Module: Mathematics 1 in The First Semester of Degree Programme. *OR*
- Pass GCE A-LEVEL in
 - Mathematics and one Science or ICT Subject for Science Stream; *OR*
 - any 2 Subjects and a Credit in Additional Mathematics at SPM Level or its equivalence; *OR*
 - any 2 Subjects and a Credit in Mathematics and any one Science or ICT subjects at SPM or its equivalent.Candidates need to do a Pre-Requisite Module: Mathematics 1 in The First Semester of Degree Programme. *OR*
- UEC with at least Grade B in any 5 subjects
 - including Additional Mathematics; *OR*
 - including Mathematics and any one Science or ICT subjects.Candidates need to do a Pre-Requisite Module: Mathematics 1 in The First Semester of Degree Programme. *OR*
- Any equivalent qualification recognised by the Government of Malaysia

ENGLISH LANGUAGE REQUIREMENT

For Malaysian Student (Foundation / Diploma / Bachelor Degree)

- Minimum Pass in SPM / SPVM / IGCSE / O-Level or its equivalence.

For International Student

- | | |
|--|---|
| <ul style="list-style-type: none">• Foundation / Diploma<ul style="list-style-type: none">- IGCSE: Minimum pass; <i>or</i>- MUET: Minimum band 2; <i>or</i>- IELTS: Minimum band 4.0; <i>or</i>- TOEFL: Minimum score of 397; <i>or</i>- Any equivalent qualifications recognised by the Government of Malaysia | <ul style="list-style-type: none">• Bachelor Degree<ul style="list-style-type: none">- IGCSE: Minimum pass; <i>or</i>- MUET: Minimum band 3; <i>or</i>- IELTS: Minimum band 5.0; <i>or</i>- TOEFL: Minimum score of 410-413; <i>or</i>- Any equivalent qualifications recognised by the Government of Malaysia |
|--|---|

HIGHLIGHT**CYBER SECURITY**

THE field of cyber security is greatly expanding in today's world as the society becomes more technologically reliant. In response to the demand, UNIMY has made the crucial field as one of its eight focus areas to give students the opportunity to explore deeper into the areas relating to the industry demands.

The cyber security courses at UNIMY have been developed in response to real world needs to provide the very best education and learning experience. Through the different specialised courses, students learn the significance of cyber security in various sectors, identify security issues, protect information and track down illegal hackers.

Cyber security careers can be found in many industrial segments including banks, retailers, and government organisations. On the job, you can expect to protect online data from being compromised, create security plan, and analyse information security, among others.

FOCUSED COURSES FOR CYBER SECURITY

- Ethical Hacking
- Network Defence
- Information Technology System Security
- Introduction to Ethical Hacking & Intrusion Prevention
- Forensics in Digital Security
- Introduction to Cryptography
- Basic Information Technology Security
- Internetworking Security
- Information Technology Security Management & Audit

**KNOWLEDGEABLE CYBER SECURITY LECTURERS****Mr. Muhammad Amin Sahari**

Specialising in Information Security, Digital Forensics, Data Recovery and Analysis.



☞ Due to the growing demands in the number of cyber security experts needed, especially in Malaysia, UNIMY strives to produce graduates who are talented and skilled in cyber security to supply the exponential demand. We make sure that the graduates produced by UNIMY are up-to-date and relevant to the industry demands. ☞

Mr. Muhammad Naim Abdullah

Specialising in Computer System Security



☞ In preparing the graduates to be job ready, UNIMY has included some of the Professional Certificate syllabus from various certification bodies to the course module. This Professional Certifications provide a way for graduates and working professionals to bridge the skills gap needed between them. ☞

PROFESSIONAL RECOGNITION OF UNIMY DEGREE PROGRAMMES

UNIMY degrees enable graduates to satisfy educational requirements of professional registration. Upon successful completion of the elective subjects of Bachelor of **Bachelor Of Software Engineering (Honours)** or **Bachelor Of Computer Science (Honours)**, students are eligible to sit for CompTIA and EC- council Professional papers.

UNIMY Elective	Professional Certification
Networking System and Technology	CompTIA Network+
IT System Security	CompTIA Security+
Ethical Hacking	EC- Council CEH
IT Management	CompTIA A+

- ❖ CompTIA (The Computing Technology Industry Association) is the leading provider of vendor-neutral IT certifications in the world. With more than 2 million IT certifications issued worldwide, CompTIA is dedicated to helping IT professionals lead the charge in our digitally connected world.
- ❖ EC-Council Certified Ethical Hacker (CEH) is an excellent credential in the cybersecurity world. The training material is very thorough and detailed, highlighting all the information that an information security professional will need to get a head start.

CYBER SECURITY EXPERT

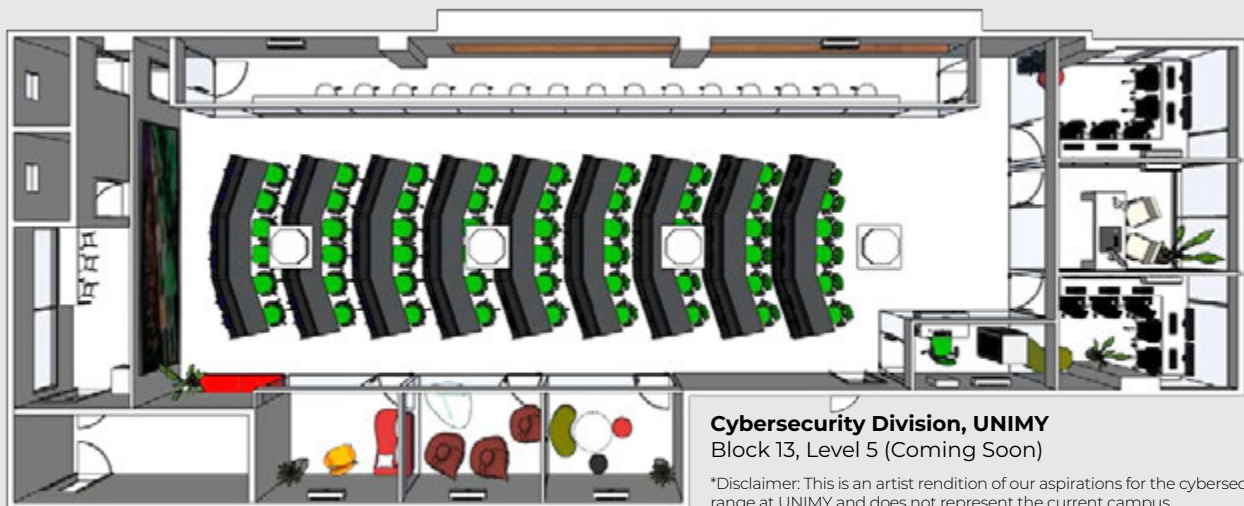
Assoc Prof Col (R) Dato' Dr Husin Jazri CISS

Serba Dinamik Holding Berhad Senior Vice President (Cyber Security)

UNIMY is a key to Serba Dinamik because it offers strategic programmes in cybersecurity, computer science related, engineering, digital creative media and digital business. We are currently working on several projects which Serba Dinamik and UNIMY can work together to groom new talents to take up real life challenges through experiential learning and hands-on experience at SD cybersecurity facilities in UNIMY campus. It is important that UNIMY cybersecurity students make effort to get hands-on and practical experiences as much as they could to be competent and marketable.



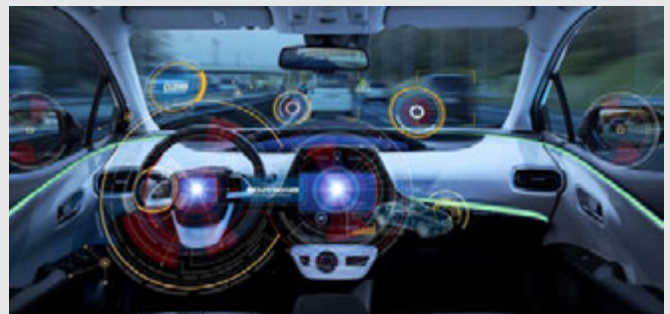
CYBER SECURITY FUTURE FACILITIES @ UNIMY



RESEARCH & DEVELOPMENT AND UPCOMING PROJECTS



Cybersecurity Robotic | Machine Learning | Artificial Intelligence



ESPC2go Mobile App



Cybersecurity Incident Scenarios



Cybersecurity Augmented Reality & Virtual Reality

HIGHLIGHT**ARTIFICIAL INTELLIGENCE (AI)**

THE field of Artificial Intelligence (AI) is now crucial in many industries like digital marketing and social media experts where they rely on AI algorithms to make better business decisions and applications. AI is basically the ability of machines to perform tasks and solve problems that are formally performed by a human.

Realising the importance of this fascinating and fast-moving field, UNIMY also includes AI as part of its 8 focus areas. The specialised AI courses at UNIMY allow students to explore and learn AI through natural language processing, predictive analytics, reinforcement learning, as well as the evolution and betterment of AI based on their intelligence.

AI offers exciting career in building the digital future and there are aplenty of job opportunities in the field. This is where you can put your love for computer science, mathematics and data analysis, python programming, linear regression to a good use in the world of work.

**FOCUSED COURSES FOR AI & CLOUD COMPUTING**

- Database Server Admin I
- Database Server Admin II
- Dynamic Web System Development
- Integrated Software Development
- Introduction to Cyber Security
- Introduction to Programming
- Mathematics
- Human Computer Interaction
- Introduction to AI
- Data Communications (Networking)
- Machine Learning, Data Science
- Internet Programming
- Data Centre & Cloud Management

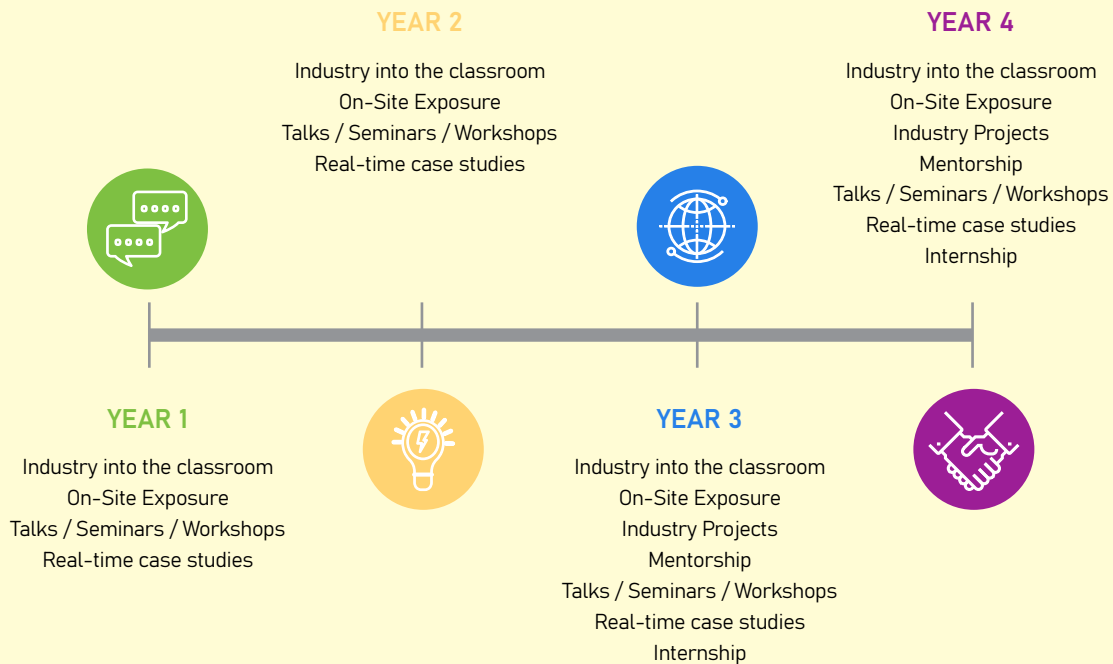
KNOWLEDGEABLE ARTIFICIAL INTELLIGENCE COMPUTING LECTURER**Dr. Bakri Madon**

Specialising in AI and Blockchain for Cybersecurity Threat Detection and Avoidance

UNIMY is currently pioneering an innovative approach to educating, training, upskilling and reskilling students and professionals in AI through the self-application of Learning Analytics and AI-powered education platforms. This is to enrich the teaching-learning experience which will enable students to acquire a more engaging and practical method of studying the field. Students will be given the opportunity to work closely with our industrial partners and government agencies, using their creativity in applying AI to solve real-world problems or to fulfill some unmet needs. Coupled with the presence of AI practitioners from industry, the action-learning experience at UNIMY will elevate students to a level where they can become productive and job-ready. ∞

EARLY INDUSTRIAL EXPOSURE

THE learning journey at UNIMY exposes students to the industry from their very first year. Depending on the duration of the programme, industrial experience will be provided to the students for 3 to 4 consecutive years.



UNIMY WIN

UNIMY students will undergo the World Industrial Network (WIN), a programme developed to produce dynamic graduates who are equipped with all the much-needed skills that are relevant and required by the industry. The programme aims to enhance the quality of UNIMY graduates by instilling strategic and futuristic thinking through specialised academics, exclusive experiential learning, and inspiring industry experts and practitioners.

This is also an initiative to close the skills gap between graduates and the industry while ensuring easy transition of graduates into the world of work. Students will attend a 6-day WIN course towards the end of their final year to gain and develop 5 high-level WIN skills which are Self Awareness, Organisational Awareness, Global Awareness, Design Thinking, and Making Things Happen.

UNIMY IAB

UNIMY has established an Industry Advisory Board (IAB) to ensure programmes content, laboratory equipment and software, and professional practices meet the latest industry standards. The members of UNIMY IAB comprises practicing professionals from the industry who are committed to share their views on skill expectations from the digital tech industry and their companies.

INDUSTRY PARTNERS



ACADEMIC PARTNERS



DIGITAL TRANSFORMATION LEARNING

AS a student at UNIMY, you will get to enjoy a **free*** UNIMY PLUS 1-year subscription package. This is your chance to ride on the digital transformation learning at UNIMY and take advantage of all the features available.

1. Microsoft 365 Education A3 Student Subscription



1 User
12-month subscription



Install the Office desktop or mobile apps on up to 5 PCs / Macs, tablets and phones

OFFICE APPS INCLUDED



Outlook



Word



Excel



PowerPoint



OneNote



Access



Publisher

SERVICES INCLUDED



Exchange



OneDrive



SharePoint



Teams



Sway



Forms



Stream



Power Automate



Power Apps



Bookings



Yammer

2. LinkedIn Learning Premium Subscription

LinkedIn Learning



Unlimited library access

Access 16,000+ courses taught by real-world professionals.



Certificate of completion

Stand out by earning certificates to add your LinkedIn profile.



How and when you want

Learn at your own pace with bite-sized videos or in-depth content, audio-only or offline viewing.



Interactive learning

Practise what you learn with exercise files and course quizzes.



Personalised for you

Course recommendations tailored to your interests and needs.



Full access to LinkedIn Premium

Salary and job insights, unlimited profile viewing, InMail credits, and more.

LEARNING TOPICS



BUSINESS

Business Analysis and Strategy
Business Software and Tools
Leadership & Management
Marketing
Professional Development
Sales
Productivity Software
Project Management
and More



TECH

Artificial Intelligence
Cloud Computing
Data Science
Database Management
Design Thinking
Mobile Development
Software Development
Web Development
and More



CREATIVE

Animation and Illustration
Audio and Music
Graphic Design
Motion Graphics and VFX
Photography
Video
Visualization and Real-Time
Web Design
and More

REAL-TIME PROJECTS

UNIMY ensures all students are exposed to and provided with real-time projects training to prepare them well for the working world. With Serba Dinamik Group Berhad (SDGB) as our parent company, UNIMY students will have the opportunity to work with real-time projects from the prestigious SDGB as well as its prominent subsidiaries such as E-Security & Privacy Channel (ESPC) and Serba Dinamik IT Solutions (SDIT).



Huawei Malaysia and Serba Dinamik as Partners in Digitalisation – The collaboration aims to explore and develop innovative digital solutions as well as to jointly establish a digital industry and Smart Campuses in Malaysia.



SMART MAINTENANCE IN PAKA, TERENGGANU – A multi-channel Integrated Innovative Digital Platform that brings together powerful digital forces like Mixed Reality, IoT Frameworks, Big Data and Machine Learning.



VR ENTERTAINMENT AT D-VIRTUAL PARK IN KOTA SAMARAHAN, SARAWAK – VR Knight Rider, a VR Horse Riding Simulator offering shocking game scenes, real riding experience, sensitive interactive handles.

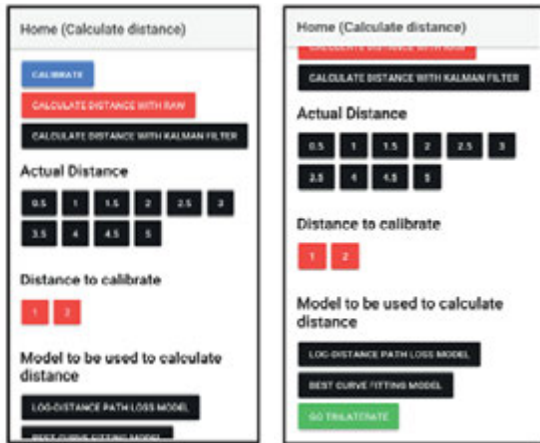


XR TRAINING AND INDUSTRY AT PERTAMINA, INDONESIA – Virtual Reality HSE Centre developed to offer customized Technical Training in VR for learners and corporates.



D-VIRTUAL PARK IN KOTA SAMARAHAN, SARAWAK – A Virtual Reality Park that offers futuristic, immersive and high-tech gaming experience.

FINAL-YEAR PROJECTS (FYP)



A STUDY OF DISTANCE ACCURACY USING BLUETOOTH LOW ENERGY BEACONS

This FYP is a study of distance accuracy using Bluetooth Low Energy (BLE) beacons. There are two phases involved, calibration and calculation phase. In calibration phase, Received Signal Strength Indicator (RSSI) signal produced by the BLE beacons are collected at the actual distance of one meter away from device. Kalman filtering is employed to smooth the collected RSSI(s). In conclusion, BLE beacons are still the preferred choice to be used as a wireless technology in an indoor positioning system.

Students from Computing @ UNIMY will carry out substantial individual project in their final year.

The Final Project will incorporate all the courses that have been studied from the first year of studies. It includes analysing and designing a system or software, the use of databases, data structures and algorithms, web programming, data communications, and more. Final year students are required to build a final project based on their programme or courses attended.

Table 5.1 RMV and RMSE performance measures for common filtering methods using Program 1

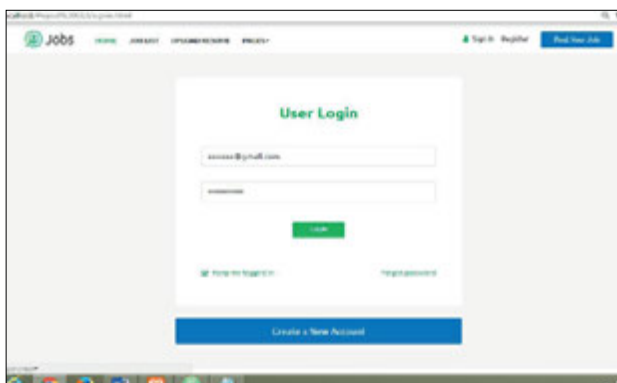
Filters	Mean	Median	Standard	Min	Max
Succession	31.34	40.81	33.33	31.34	40.81
Linear	31.34	40.81	33.33	31.34	40.81
Kalman	31.34	40.81	33.33	31.34	40.81
RMV	31.34	40.81	33.33	31.34	40.81
RMSE	31.34	40.81	33.33	31.34	40.81

A COMPARATIVE STUDY ON NOISE REMOVAL METHODS FOR IMAGE ENHANCEMENT

Images are often corrupted with noises, thus increasing the difficulty to interpret the image. This FYP is a comparative study on different enhancement methods which focuses on preserving edge and smoothing image. The common noises found in gray scale image are Salt and Pepper noise and Gaussian noise. For Salt and Pepper noise, a proposed filtering method from resulted a promising output. The method is analyzed for Gaussian noise suitability and made some improvement on the method. This FYP discovered the methods to remove noise for image enhancement to help beginners in image processing field to understand the details on image enhancement.

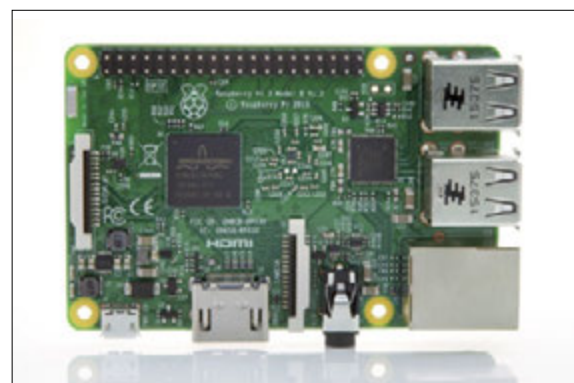
Table 5.2 RMV and RMSE performance measures for common filtering methods using Program 2

Methods	Mean	Median	Standard	Min	Max
Succession	31.34	40.81	33.33	31.34	40.81
Linear	31.34	40.81	33.33	31.34	40.81
Kalman	31.34	40.81	33.33	31.34	40.81
RMV	31.34	40.81	33.33	31.34	40.81
RMSE	31.34	40.81	33.33	31.34	40.81



E-RECRUITMENT SYSTEM FOR FOOD AND BEVERAGE (F&B) OUTLETS

This FYP provides a systematic approach for software developers to verify the android application vulnerabilities in the testing phase. The application helps solve problems faced by F&B outlet managers to hire competent kitchen staff. This application also helps jobseekers to get hired, especially for those part-timers and full-timers who are interested to gain experience in the industry. The system is developed based on the Evolutionary Prototyping model. It evolved based on customer feedback and cost for the changing requirements are much lesser compared to other models. The analysis design utilises Swimlane Diagram which is a type of flowchart.



SMART MIRROR INTERACT WITH HAND GESTURES USING RASPBERRY PI 3

This FYP is inspired by "Magic Home Mirror" device, which is uses Nexus 7 tablet platform attached with one-way mirror, where it can show webpage, time, and weather information. By modifying the device and attached with Raspberry Pi 3, which is microcomputer chip, this project can interact and used for different purpose by using additional peripherals that can be attached to Raspberry Pi 3. The prototype of Smart Mirror is able to interact with Hand gestures and ready to be used in the store at the shopping mall. It also helps the store to promote their product and reduce their marketing budget.

LOCAL & GLOBAL INTERNSHIP

INTERNSHIPS are vital for students to face the real working world and most importantly to be job-ready. The Centre for Student Experience (CSE) at UNIMY provides full support to ensure that all students are ready to apply for their internships and be prepared to be an intern. From finding a suitable placement to creating a good resume and handling internship interviews, the CSE team is there every step of the way.

Internship placements are also arranged at various government and non-government organisations abroad. They offer students a wide range of experiences from field internships to research work and/or administrative placements.

Global interns are assigned to client engagement teams and work alongside talented professionals. Through this programme, the students will benefit from mentoring, performance management and have access to our top-rated training.

Global Internship provides the candidates with the opportunity to enhance student learning and job-related skills by applying academic knowledge to an international and intercultural work environment. They will gain global

competencies that will enhance their marketability and provide them with a competitive edge.

To date, UNIMY students have done their internship with some of the most prominent and innovative companies around, such as:

- **Petronas**
- **KPMG**
- **Earnst & Young**
- **Daikin**
- **Malaysian Airports Holding Berhad**
- **Future Lab**
- **Stone Forest Malaysia Sdn Bhd**
- **AEM Enersol**
- **TM Research and Development**
- **RW Tech Labs Sdn Bhd**
- **DoubleTree by Hilton Kuala Lumpur**
- **DKSH Corporate Shared Services Center Sdn Bhd**
- **HeiTech i-Solutions**
- **Malaysia Automotive Robotics and IoT Institute (MARII - agovernment agency under MITI)**
- **Fusionex**
- **Maxis Broadband Sdn Bhd**
- **Sony EMCS (Malaysia) Sdn Bhd.**

and many more...



Melbourne, AUSTRALIA
University of Melbourne



Tokyo, JAPAN
Digital Hollywood University



Madrid, SPAIN
Universidad Politécnica De Madrid

WORDS FROM OUR ALUMNI



“My time in UNIMY has been spectacular! UNIMY offers me a chance to learn beyond the classroom boundaries and also stimulate my personal growth through various development programs and conferences.”

MUHAMMAD ASYIK

Programmer & Security Analysis
Trainee Asia Padu Sdn Bhd
Programme: Diploma in
Information Technology
(Cyber Security)



“UNIMY enabled me to pioneer a new culture for the university and let me set up the Students Association. This has allowed me to be more independent both in campus and my career.”

**SITI NURAZWEEN BINTI
MOHD AZLAN**

System Engineer,
Schlumberger
Programme: BSc (Hons)
Computer Science



“I have obtained a solid foundation on information technology, thanks to UNIMY. It is relevant to the industries and helped me to understand my job better.”

VIVEEKDEEP SINGH

System Advisor (Australia
and New Zealand), Oracle
Corporation Malaysia
Programme: BSc (Hons)
Software Engineering



“It matters less who I am, but I am more concerned about who I can become.”

LEE BOON KONG

Android Mobile Application
Developer, Timetec
Cloud Sdn Bhd & Rauve
Technologies Sdn Bhd
Programme: BSc (Hons)
Computer Science

LEARNING BEYOND THE CLASSROOM

UNIMY students are encouraged to go beyond the classroom walls and labs by taking advantage of all the opportunities available to practise in real-world settings. Through the programmes and activities available, students can increase skills in the related discipline, boost job opportunities, and strengthen confidence as a person while putting their theoretical classroom knowledge to the test.

Some of the industry immersion programmes that UNIMY students have participated and volunteered in include:



Research and Innovation Poster Competition (RIPC)

RIPC provides a platform for students to present and share their final year project, thesis, or dissertation, while encouraging research and innovation culture among students.



Dell Hack2 Hire

Hack-to-Hire is DELL's holistic hiring process which allows them to observe students on their problem-solving skills, learnability, collaboration, empathy, teamwork, and articulation.



Industry Into The Classroom

A programme where industry speakers are invited to give talks to UNIMY students on topics related to their courses. Some of the activities involve Industrial Relations, Competition and Project Showcase Partnering with global brands for short courses and seminars, as well as to compete in renowned competitions and showcase key final year projects.



Trailblazing

Trailblazing is a platform where students get a chance to communicate directly and gain valuable insights from the industry experts. Featuring top executives from KPMG, Dell, Celcom Axiata and many more, the event epitomises how UNIMY students are empowered to design and run strategic engagement events in collaboration with leading industry experts.



Disrupt-IT Challenge

Disrupt-IT Challenge is an inter-varsity technology and innovation challenge where university students are encouraged to ideate and create innovative solutions that will provide new meaningful solutions for the benefit of businesses and the society.



UNIMY X.Rage Collaboration

The collaboration was tailored to the youngsters, in promoting news consumption as part of R.AGE's focus on using digital platform to instigate societal change. It is an international award-winning investigative journalism platform based in Malaysia specialising in short multimedia documentaries and cause-driven media campaigns.

BFM: A.I For Good Hackathon

UNIMY students participated in the inaugural Hackathon, which was organised by an established local business station, BFM. The students consolidated their resources to design and build Artificial Intelligence (AI)-enabled smart city applications for the community. It focuses on the urban poor, disabled and homeless as well as non-governmental organisations that support these groups in Malaysia.



KPMG Innovative Challenge

UNIMY students won the inaugural KPMG Cyber Security Challenge. This competition heightened awareness and further encouraged students to pursue careers as Cyber Security Professionals.

CIMB Data Science Challenge

UNIMY students won the 5th runner-up prize in the CIMB Data Science Challenge competition. This annual challenge is open to university students to test participants' application and knowledge of data preparation and data mining.

OUR CAMPUS AND FACILITIES

Situated strategically in the heart of Cyberjaya, the slick-looking UNIMY premises boasts state-of-the-art facilities for our students to enjoy quality campus life and get the most out of their UNIMY years.



As UNIMY aspires to be the best university in digital technology and innovation, we offer digital tech-focused facilities and services, such as:

- Auditorium
- Cyber Security Centre
- Digital Research Lab
- Inspirational Student Hangout Area
- Postgraduate Centre
- Game Development Centre
- Virtual Reality Studio (AR, VR)
- Production House
- Computer Lab





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Disclaimer: This publication contains information which is current as of March 2021.

While the information provided in this flyer is correct at the time of printing, UNIMY reserves the right to make changes that are deemed necessary without prior notice.

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