

# ENGINEERING & COMPUTING

- Prospectus 2025 -

**SUNWAY**  
UNIVERSITY



A CLASS ABOVE



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**Jeffrey Cheah Foundation**  
Nurturing the Seeds of Wisdom

## SUNWAY IS ONE OF THE TOP 150 UNIVERSITIES IN THE WORLD UNDER 50 YEARS OLD

As one of Malaysia's leading and internationally recognised private universities, Sunway University is positioned amongst top universities in the world by QS World University Rankings. Sunway University is ranked #1 private university in ASEAN region by AppliedHE ASEAN Private University Ranking 2025 and recognised as the #1 Malaysia's highest-ranked private non-government linked university in the Times Higher Education World University Rankings 2025. The University is also #539 in the QS World University Rankings 2025.

Sunway University has been awarded #1 in Graduate Employability among all universities in Malaysia, for the third consecutive year, by Talentbank Group through the National Graduate Employability Index.

The University has achieved a significant milestone by making its debut in the Academic Ranking of World Universities (ARWU) for 2024. This achievement places Sunway University among the top five universities in Malaysia, alongside the top four research-intensive public universities, and establishes it as the only private higher education institution in the country to be included in this prestigious global ranking.

Collaborating with world class partners - Lancaster University and Le Cordon Bleu International, Sunway University offers premier education with international repute. The University also partners University of Oxford, University of Cambridge, Harvard University, Massachusetts Institute of Technology and University of California, Berkeley.

**MALAYSIA'S #1**  
NON-GLU\* PRIVATE UNIVERSITY

as awarded by  
Times Higher Education



\*Government-Linked University

The Only Private University in Malaysia to be included in the Academic Ranking of World Universities (ARWU) 2024



# INTRODUCTION

Industrial Revolution 4.0, Artificial Intelligence (AI), Internet of Things (IoT), electronics innovation, and the growth of new materials, chemicals and technological platforms have further propelled the demand for tech specialists and engineers. Pandemic of 2020 also highlighted the importance of innovation and technology advances, and the need for such skilled professionals.

The School of Engineering and Technology at Sunway University, Malaysia, stands as a beacon of innovation and academic excellence in the region. With a commitment to nurturing future ready engineers and technology leaders, our school offers a dynamic and inclusive learning environment that merges cutting-edge knowledge with practical skills. Our school comprises accomplished academics and industry experts dedicated to delivering top-tier education, fostering creativity and through state-of-the-art facilities and hands on learning experiences including electrical engineering, mechanical engineering, computer science and many more.

The only private Malaysian university with the **highest number of Top 2% scientist** in their respective disciplines.

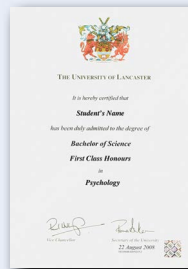
*Stanford University List of Top 2% Scientist 2023*

Recognised for its qualifications and commitment in offering top-notch digital technology degree programmes and generations of highly-skilled graduates for the industry.



Upon successful completion of the programme, graduates are awarded 2 certificates; one from Sunway University and another from Lancaster University.

VALIDATED BY:



## TOWARDS RECOGNITION\* BY BOARD OF ENGINEERS MALAYSIA (BEM)

Through BEM, Malaysia is a signatory to the Washington Accord (WA). Following the WA agreement on mutual recognition of engineering qualifications, graduates from BEM-accredited engineering programmes will be mutually recognised for professional registration and eligible to perform professional engineering services in countries such as the US, Canada, UK, Australia, New Zealand, Korea, China, Singapore, and more.



*\*Sunway University's Engineering programmes are provisionally accredited by the Board of Engineers Malaysia (BEM) and will be ready for full accreditation during its first cohort's final year.*

# ENTRY REQUIREMENTS

## COMPUTING

PROGRAMME	ENTRY REQUIREMENTS	SPECIFIC REQUIREMENTS	ENGLISH REQUIREMENTS
<b>BACHELOR OF SCIENCE (HONOURS) IN COMPUTER SCIENCE</b>	<p><b>STPM</b> Average C or CGPA 2.00 (minimum 2 principals)</p> <p><b>A-Level</b> Minimum 12 points (Minimum Grade D in at least 2 subjects)</p> <p><b>Australian Matriculation</b> ATAR 60</p>	<p>Credit in Additional Mathematics at SPM B in Advanced Mathematics in UEC or its equivalent</p> <p>Candidates with the following qualifications or its equivalent:</p> <ul style="list-style-type: none"> <li>• STPM (Arts Stream)</li> <li>• STAM</li> <li>• A-Level</li> <li>• Matriculation or Foundation</li> <li>• Diploma in Science and Technology</li> </ul>	<p><b>IELTS or equivalent</b> 6.0</p> <p><b>MUET</b> Band 4</p> <p><b>SPM English</b> B+</p> <p><b>UEC English</b> Credit</p> <p><b>O-Level English (1119)</b> Credit</p> <p><b>Sunway Intensive English Programme (IEP)</b> Pass Level 4 with minimum 65%</p> <p><b>ESL/English</b> Satisfactory level in Pre-University programmes, where the medium of instruction is English</p> <p><b>Note:</b> The following students will be exempted from the English Language requirement: Students from countries that use English as the official language; <b>OR</b> Students with academic qualifications from institutions that use English as a full medium of instruction.</p>
	<p><b>Canadian International Matriculation Programme</b> 60%</p> <p><b>MUFY</b> 60%</p> <p><b>Sunway Foundation in Arts</b> CGPA 2.30</p> <p><b>Sunway Foundation in Science &amp; Technology</b> CGPA 2.30</p>		
<b>BACHELOR OF SOFTWARE ENGINEERING (HONS)</b>	<p><b>UEC</b> Maximum 26 points from 5 subjects (all grade Bs)</p> <p><b>IB Diploma</b> Completed with minimum 25 points (excluding bonus points)</p> <p><b>Sunway Diploma</b> CGPA 2.50 or equivalent (Students entering Computer Science and Software Engineering from a diploma qualification must come from a diploma related to Science and Technology)</p>	<p>Credit in Mathematics at SPM B in Mathematics in UEC or its equivalent</p> <p>A credit in Mathematics at SPM level or its equivalent will be required for the following qualifications and its equivalent:</p> <ul style="list-style-type: none"> <li>• STPM</li> <li>• STAM</li> <li>• A-Level</li> <li>• Matriculation or Foundation</li> <li>• Diploma programme that are not in Computing</li> </ul> <p>Candidates with only a pass in Mathematics will need to enrol and pass a Mathematics Enhancement subject at the beginning of study.</p>	
<b>BACHELOR OF INFORMATION SYSTEMS (HONOURS) (DATA ANALYTICS)</b>	<p><b>Other Qualifications:</b> Any other qualifications will be considered on a case-to-case basis</p>	<p>The above requirements can be excluded if the Foundation / Matriculation programmes offered a Mathematics subject and the achievements are equivalent / higher than a requirement of a credit in Mathematics at SPM level or equivalent.</p>	
<b>BSC (HONS) INFORMATION TECHNOLOGY (COMPUTER NETWORKING AND SECURITY)</b>			
<b>BACHELOR OF SCIENCE (HONOURS) IN INFORMATION TECHNOLOGY</b>			

Note: For A-Level points calculation  
 A = 10 points B = 8 points C = 6 points D = 4 points E = 2 points

**INTAKES**  
 FEBRUARY • APRIL • SEPTEMBER

**DURATION**  
 3 YEARS

# ENTRY REQUIREMENTS

## ENGINEERING

PROGRAMME	ENTRY REQUIREMENTS	SPECIFIC REQUIREMENTS	ENGLISH REQUIREMENTS
<b>BACHELOR OF CHEMICAL ENGINEERING WITH HONOURS</b>	<p><b>STPM</b> CGPA 2.00 including Mathematics &amp; one Natural Sciences subject (with minimum Grade C)</p> <p><b>A-Level</b> Minimum 12 points for Mathematics &amp; one Natural Sciences subject (with minimum Grade D)</p>	<p>Natural Sciences subjects are Physics, Biology or Chemistry. Chemistry will be given Preference.</p> <p>SPM or equivalent in Science stream will be given preference.</p>	<p><b>IELTS or equivalent 6.0</b></p> <p><b>MUET</b> Band 4</p>
<b>BACHELOR OF ELECTRONIC AND ELECTRICAL ENGINEERING WITH HONOURS</b>	<p><b>Australian Matriculation</b> ATAR 65 (including Mathematics Methods &amp; one Natural Sciences subject)</p> <p><b>Canadian International Matriculation Programme</b> 65% (including Advanced Functions, Calculus &amp; Vectors and one Natural Sciences subject)</p> <p><b>MUFY</b> 65% (including Mathematics &amp; one Natural Sciences subject)</p>		<p><b>SPM English</b> B+</p> <p><b>UEC English</b> B3</p> <p><b>O-level English (1119)</b> B3</p> <p><b>Sunway Intensive English Programme (IEP)</b> Pass Level 4 with minimum 65%</p>
<b>BACHELOR OF MECHANICAL ENGINEERING WITH HONOURS</b>	<p><b>Sunway Foundation in Science &amp; Technology</b> CGPA 2.50 (including Mathematics and one Natural Sciences subject)</p> <p><b>UEC</b> Maximum 24 points from 5 subjects (all grade Bs including Mathematics and one Natural Sciences subject)</p>	<p>Natural Sciences subjects are Physics, Biology or Chemistry. Physics will be given Preference.</p>	<p><b>ESL/English</b> Satisfactory level at Pre-University programmes with English as the medium of instruction.</p>
<b>BACHELOR OF MECHATRONIC ENGINEERING (ROBOTICS) WITH HONOURS</b>	<p><b>Diploma</b> CGPA 2.50 from any diploma in Engineering, Science or Technology</p> <p><b>Matriculation/Foundation</b> CGPA 2.50 (including Mathematics and one Natural Sciences subject)</p>	<p>SPM or equivalent in Science stream will be given preference.</p>	<p><b>Additional requirements</b> For Malaysian students entering using an entry qualification whereby the medium of instruction is not in English, MQA requires the student to possess a MUET or international English proficiency qualification in order to register for the Engineering programmes.</p>
<b>BACHELOR OF CIVIL ENGINEERING WITH HONOURS</b>	<p><b>IB Diploma</b> Completed with minimum 25 points (excluding bonus points)(including Mathematics and one Natural Sciences subject)</p> <p><b>Other Qualifications</b> CGPA 2.50 or equivalent and any other qualifications will be considered on a case-to-case basis.</p>		

Note: For A-Level points calculation

A = 10 points B = 8 points C = 6 points D = 4 points E = 2 points

### INTAKES

FEBRUARY • APRIL • SEPTEMBER

### DURATION

4 YEARS

# FIELDS IN COMPUTING

Programme

## COLLABORATIONS WITH INDUSTRY PARTNERS:



## SPM / O-LEVEL

### PRE-UNIVERSITY

- Sunway Foundation in Arts (FIA)
- Sunway Foundation in Science & Technology (FIST)
- Australian Matriculation (AUSMAT)
- Cambridge GCE A-Level
- Canadian International Matriculation Programme (CIMP)
- Monash University Foundation Year (MUFY)

STPM or equivalent

1/1.5 years

### SUNWAY DIPLOMA

- Diploma in Information Technology
- Diploma in Computer Science [Pathway to Bachelor of Information Systems (Hons) [Data Analytics]]

2 years






### AMERICAN DEGREE TRANSFER PROGRAM

2 years

### US / CANADIAN UNIVERSITIES

2 years

Specialised Fields

 <p><b>Data Analytics</b></p>	 <p><b>Computer Science</b></p>	 <p><b>Software Engineering</b></p>	 <p><b>Information Technology</b></p>	 <p><b>Computer Networking &amp; Security</b></p>
<p><b>Big Data &amp; Cloud</b></p> <ul style="list-style-type: none"> <li>• Big Data Analytics in the Cloud</li> </ul>	<p><b>Internet of Things (IoT)</b></p> <ul style="list-style-type: none"> <li>• Distributed Systems</li> </ul>	<p><b>Software Development Life Cycle</b></p> <ul style="list-style-type: none"> <li>• Requirement Engineering</li> <li>• Software Evolution &amp; Maintenance</li> <li>• Software Testing</li> </ul>	<p><b>Customer Relationship Management</b></p>	<p><b>Hacking/Forensic</b></p> <ul style="list-style-type: none"> <li>• Computer Hacking Forensic Investigator</li> </ul>
<p><b>Data Mining &amp; Knowledge Discovery</b></p>	<p><b>Computational Intelligence</b></p>	<p><b>Cloud Computing</b></p>		<p><b>Network Management</b></p> <ul style="list-style-type: none"> <li>• Advanced Computer Networks</li> <li>• Computer Networks</li> <li>• Network and System Administration</li> </ul>
<p><b>Information Systems</b></p> <ul style="list-style-type: none"> <li>• Business Intelligence Systems</li> </ul>	<p><b>Desktop/Mobile Application Development</b></p> <ul style="list-style-type: none"> <li>• Human Computer Interaction</li> <li>• Object-oriented Programming</li> </ul>			<p><b>Computer Security</b></p>
<p><b>Analytics &amp; Statistics</b></p> <ul style="list-style-type: none"> <li>• Analytics Engineering</li> <li>• Social &amp; Web Analytics</li> <li>• Statistics for Data Analytics</li> </ul>	<p><b>Computing Algorithms</b></p> <ul style="list-style-type: none"> <li>• Data Structures &amp; Algorithm</li> </ul>			<p><b>IoT Networking and Security</b></p>
<p><b>Information Systems Analysis &amp; Design</b></p>	<p><b>Database Development</b></p> <ul style="list-style-type: none"> <li>• Database Management Systems</li> </ul>			<p><b>Computing Algorithms</b></p> <ul style="list-style-type: none"> <li>• Operating System Fundamentals</li> </ul>
<p><b>Artificial Intelligence</b></p>				<p><b>Ethical Hacking &amp; Counter measures Fundamentals</b></p>
<p><b>Data Science Fundamentals</b></p> <ul style="list-style-type: none"> <li>• Information Systems Concepts</li> <li>• Linear Algebra &amp; Applications</li> </ul>	<p><b>Computer Fundamentals</b></p> <ul style="list-style-type: none"> <li>• Programming Principles</li> <li>• Computer Mathematics</li> <li>• Web Fundamentals</li> <li>• Networking Principles</li> </ul>			<p><b>Cyber Security</b></p> <ul style="list-style-type: none"> <li>• Advanced Topics in Computer Security</li> </ul>
<p><b>Business &amp; Entrepreneurship</b></p> <ul style="list-style-type: none"> <li>• Digital Economy</li> <li>• Startup Foundry</li> <li>• Principles of Entrepreneurship</li> </ul>				

# BACHELOR OF SCIENCE (HONOURS) IN COMPUTER SCIENCE

## PROGRAMME INTRODUCTION

The Computer Science programme was designed to produce innovators and creators of new computing systems as well as designing and developing various types of software such as systems infrastructure or application technologies.

The programme is developed in accordance to ACM-IEEE(CS) and MQA recommendations, while offering a comprehensive syllabus that enables graduates to thrive in the working world and be leaders in their own niches.

## VALIDATED BY:



## CAREER PROSPECTS

- Chief Technology Officer
- Game Developer
- IT Executive
- IT Project manager
- IT Technical Solutions Consultant
- Mobile App Developer
- Software Architect/ Software Engineer
- System Administrator
- System Designer
- System Engineer

### Software Taught

- |                 |                      |
|-----------------|----------------------|
| • Akka          | • Python             |
| • Eclipse       | • Repl.It            |
| • Figma         | • SBT                |
| • Haskell       | • Scala              |
| • IntelliJ IDEA | • SQL                |
| • Java          | • Visual Studio Code |
| • Oracle DBMS   |                      |

## DISTINCTIVE SUNWAY EXPERIENCE

Students are exposed to latest Cloud technologies and principles so that they can be equipped with the fundamentals of Cloud computing via our industry partners such as AWS.



## PROGRAMME STRUCTURE - Subjects

### Year 1

- Computer Mathematics
- Computer Organisation
- Database Fundamentals
- English for Computer Technology Studies
- Networking Principles
- Object-Oriented Programming Fundamentals
- Operating Systems Fundamentals
- Programming Principles
- Web Fundamentals

### Year 2

- Communication Skills
- Data Structures and Algorithms
- Entrepreneurial Mindset & Skills
- Free Electives (Choose 3)
- Object-Oriented Programming
- Software Engineering
- **Discipline Electives (Choose 2)**

### Year 3

- Artificial Intelligence
- Capstone Project 1 & 2
- Distributed Systems
- Human Computer Interaction
- Internship
- **Discipline Electives (Choose 3)**

### Data Science & Analytics

- Social & Web Analytics
- Data Mining & Knowledge Discovery Fundamentals

### Advanced Artificial Intelligence

- Computer Vision
- Computational Intelligence

### Software Solutions

- Database Management Systems
- Digital Image Processing
- Functional Programming Principles
- Concurrent Programming
- Database Engineering
- Mobile Application Development

### Networking & Security

- Data Communications
- IoT Networking & Security
- Computer Networks
- Computer Security

### Software Design

- Information Systems Analysis & Design
- Programming Languages
- Cloud Computing
- Software Architecture & Design Patterns
- UI/UX Design & Development

### FREE ELECTIVES

*Note: Electives offered are subject to change.*

- Digital Economy
- Principles of Entrepreneurship
- Startup Foundry

### MOHE COMPULSORY GENERAL STUDIES SUBJECTS

#### For Local Students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*(Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu) / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

#### For International Students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2





# BACHELOR OF INFORMATION SYSTEMS (HONOURS) (DATA ANALYTICS)

## PROGRAMME INTRODUCTION

The Data Analytics programme focuses on the development of analytical skills in the study of technologies. Harnessing and analysing massive data creates significant value for organisations and it has become the basis for decision-making to achieve greater efficiency while spearheading constant innovation.

During their studies, students will solve practical and real-world problems of companies utilising data sets in the presence of analytics experts.

## VALIDATED BY:



## CAREER PROSPECTS

- Big Data System Architect
- Business Intelligence Manager/Specialist/Architecture Consultant
- Chief Data Scientist
- Chief Knowledge Analyst
- Chief Social Media Scientist
- Credit Scorecard Specialist
- Customer Segmentation Specialists
- Forensic Experts

### Software Taught

- Hadoop
- Oracle DBMS
- Power BI
- Python
- R
- SAS
- SQL
- Tableau

## DISTINCTIVE SUNWAY EXPERIENCE

In this programme, students will be awarded a SAS Joint Certificate in Big Data with Advanced Techniques in Data Science and an academic digital badge to validate their knowledge. As one of the **Top 10 Most Prominent Data Science Institutes\***, Sunway students learn innovative ways to use and leverage data to generate actionable outcomes across a variety of industries.

Python and R languages and the SAS tools are taught in the programme. The collaboration with AWS and Alibaba GET enhance & provide students a 360 degree view of analytics knowledge and skills.

*\*Analytics Insight Magazine (January 2022)*



## PROGRAMME STRUCTURE - Subjects

### Year 1

- Computer Organisation
- Data Mining & Knowledge Discovery Fundamentals
- Database Fundamentals
- English for Computer Technology Studies
- Information Systems Concepts
- Linear Algebra and Applications
- Networking Principles
- Operating System Fundamentals
- Programming Principles

### Year 2

- Analytics Engineering
- Communication Skills
- Database Management Systems
- Enterprise Architecture
- Entrepreneurial Mindset & Skills
- Free Electives (Choose 2)
- Information Systems Analysis & Design
- Statistics for Data Analytics
- Social and Web Analytics

### Year 3

- Advanced Business Analytics
- Artificial Intelligence
- Big Data Analytics in the Cloud
- Business Intelligence Systems
- Capstone Project 1 & 2
- Data Mining & Knowledge Discovery
- Free Electives (Choose 1)
- Internship
- Project Management

## FREE ELECTIVES

*Note: Electives offered are subject to change.*

- Digital Economy
- Startup Foundry
- Principles of Entrepreneurship

## MOHE COMPULSORY GENERAL STUDIES SUBJECTS

### For Local students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*(Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu) / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

### For International students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2



# BSC (HONS) INFORMATION TECHNOLOGY (COMPUTER NETWORKING AND SECURITY)

## PROGRAMME INTRODUCTION

The Computer Networking and Security programme aims to equip students with technical competencies in exploring the technology behind computer networks and security systems.

This programme focuses on networking developments and distributed applications within the Internet, corporate networks and the information systems in which they interconnect. In terms of computer security, students will gain the ability to manage and develop computer systems and applications that enhance networking and security within organisations.

## VALIDATED BY:



## CAREER PROSPECTS

- Digital Forensic Investigator
- IT Security Consultant
- Network Engineer
- Network Infrastructure Specialist
- Penetration Tester
- Security Analyst
- Security Engineer

### Software Taught

- Aircrack
- Android Studio
- Autopsy
- Burp Suite
- Cisco Packet Tracer
- FTK imager
- Maltego
- Metasploit
- Nmap
- NetWitness
- Sleuth Kit
- Virtualisation Software

## DISTINCTIVE SUNWAY EXPERIENCE

Students in this programme will experience the latest techniques in IT security and developing critical threat-hunting expertise, developed in collaboration with world's leading cybersecurity organizations like Cisco, Fortinet and EC-Council.

Together with EC-Council, our students have the chance to obtain up to two professional certificates during their studies. Students may also choose to attend CCNA professional examination.



## PROGRAMME STRUCTURE - Subjects

### Year 1

- Computer Mathematics
- Computer Organisation
- Database Fundamentals
- English for Computer Technology Studies
- Networking Principles
- Object-Oriented Programming Fundamentals
- Operating Systems Fundamentals
- Programming Principles
- Web Fundamentals

### Year 2

- Communication Skills
- Computer Networks
- Distributed Systems
- Entrepreneurial Mindset & Skills
- Free Electives (Choose 2)
- IoT Networking & Security
- Network & System Administration
- Network Security
- Probability & Statistics

### Year 3

- Advanced Computer Networks
- Advanced Topics in Computer Security
- Capstone Project 1 & 2
- Computer Hacking Forensic Investigator
- Ethical Hacking & Countermeasures Fundamentals
- Free Electives (Choose 1)
- Human Computer Interaction
- Internship

## FREE ELECTIVES

*Note: Electives offered are subject to change.*

- Digital Economy
- Principles of Entrepreneurship
- Startup Foundry

## MOHE COMPULSORY GENERAL STUDIES SUBJECTS

### For Local Students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*(Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu) / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

### For International Students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2



# BACHELOR OF SOFTWARE ENGINEERING (HONS)

## PROGRAMME INTRODUCTION

The Software Engineering programme empowers students with the knowledge and understanding of user requirements in analysing, modelling, designing, and developing large-scale software systems that are reliable and robust. Such Software Engineering (SE) specialists will be able to respond to the ever-growing impact of large-scale software systems in a wide range of situations.

Furthermore, this programme will enable them to select the most appropriate and reliable techniques for producing quality software systems on time and within budget.

## VALIDATED BY:



## CAREER PROSPECTS

- Game Developer
- Mobile App Developer
- Requirement Engineer
- Software Architect
- Software Engineer
- Software Quality Assurance Officer
- Software Tester
- System Designer
- Technical Analyst
- Web Developer

### Software Taught

- |                  |                 |
|------------------|-----------------|
| • Android Studio | • Repl.It       |
| • Eclipse        | • SBT           |
| • Figma          | • SQL           |
| • Java           | • Scala         |
| • IntelliJ IDEA  | • Visual Studio |
| • Oracle DBMS    | • Code          |
| • PHP            | • Web Servers   |
| • Python         |                 |

## DISTINCTIVE SUNWAY EXPERIENCE

Together with Malaysian Software Testing Board (MSTB), member of International Software Testing Quality Board (ISTQB) and through their partnership with International Requirements Engineering Board (IREB), our students have the opportunity to obtain up to two professional certificates known as Certified Tester Foundation Level (CTFL) and Certified Professional in Requirements Engineering-Foundation Level (CPRE-FL) during their study. These industry-linked certificates will be an added advantage for our graduates, making them highly employable.

## PROGRAMME STRUCTURE - Subjects

### Year 1

- Computer Mathematics
- Computer Organisation
- Database Fundamentals
- English for Computer Technology Studies
- Networking Principles
- Object-Oriented Programming Fundamentals
- Operating Systems Fundamentals
- Programming Principles
- Web Fundamentals

### Year 2

- Communication Skills
- Entrepreneurial Mindset & Skills
- Free Electives (Choose 3)
- Project Management
- Requirement Engineering
- Software Engineering
- **Discipline Electives (Choose 2)**

### Year 3

- Capstone Project 1 & 2
- Computer Security
- Internship
- Software Architecture & Design Patterns
- Software Evolution & Maintenance
- Software Processes
- Software Testing
- **Discipline Electives (Choose 3)**

## DISCIPLINE ELECTIVES

### Software Development

- Object-Oriented Programming
- Code Camp
- Concurrent Programming
- Human Computer Interaction

### Networking & Security

- Data Communication
- Network Security
- Advanced Network Security
- Computer Networks

### Software Solutions & Design

- Database Management Systems
- Data Structures & Algorithms
- Digital Image Processing
- Cloud Computing
- Database Engineering

### Artificial Intelligence

- Artificial Intelligence
- Computer Vision

### Mobile App Development

- Mobile Application Development

## FREE ELECTIVES

*Note: Electives offered are subject to change.*

- Digital Economy
- Principles of Entrepreneurship
- Startup Foundry

## MOHE COMPULSORY GENERAL STUDIES SUBJECTS

### For Local Students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*(Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu) / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

### For International Students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2



# BACHELOR OF SCIENCE (HONOURS) IN INFORMATION TECHNOLOGY

## PROGRAMME INTRODUCTION

The Information Technology programme was designed to provide our graduates with strong analytical skills and the knowledge to keep abreast with the rapid advances in technology.

Students undertaking this programme are exposed to both technical and real-world practical experiences through the specially-crafted coursework and industrial training, making our graduates market-ready upon graduation.

During their study, students may select electives to explore and enhance their knowledge in specific fields such as network management and security, database engineering and mobile development.

## VALIDATED BY:



## CAREER PROSPECTS

- Database Architect
- IT Specialist
- Network Specialist
- System Engineer
- Web/e-Commerce Architect

### Software Taught

- Android Studio
- Cisco Packet Tracer
- CSS
- Eclipse
- Figma
- HTML
- Java
- Javascript
- Oracle DBMS
- PHP
- Python
- Repl.It
- Scala

## DISTINCTIVE SUNWAY EXPERIENCE

This programme will give the students a good mix of knowledge in both software and hardware. With the knowledge from both sides, the students will be equipped with the skills required to develop an organisation's technology infrastructure and support the people who use it.

Students are exposed to latest Cloud technologies and principles so that they can be equipped with the fundamentals of Cloud computing via our industry partners such as AWS.



## PROGRAMME STRUCTURE - Subjects

### Year 1

- Computer Mathematics
- Computer Organisation
- Database Fundamentals
- English for Computer Technology Studies
- Networking Principles
- Object-Oriented Programming Fundamentals
- Operating Systems Fundamentals
- Programming Principles
- Web Fundamentals

### Year 2

- Communication Skills
- Computer Networks
- Entrepreneurial Mindset & Skills
- Free Electives (Choose 2)
- Project Management
- Software Engineering
- Web Programming
- **Discipline Elective (Choose 2)**

### Year 3

- Capstone Project 1 & 2
- Cloud Computing
- Free Electives (Choose 1)
- Human Computer Interaction
- Internship
- **Discipline Electives (Choose 3)**

## DISCIPLINE ELECTIVES

### Software Development and Design

- Database Management Systems
- Data Structures and Algorithms
- Object-Oriented Programming
- Database Engineering
- Mobile Application Development
- UI/UX Design and Development
- Software Architecture and Design Patterns

### Networking & Security

- Data Communications
- Network Security
- IoT Networking & Security
- Advanced Computer Networks
- Advanced Network Security
- Computer Security
- Distributed Systems
- Network & System Administration
- Network Management

### Business Solutions & AI

- Customer Relationship Management
- Enterprise Application Development
- Artificial Intelligence

### Data Science

- Data Mining and Knowledge Discovery Fundamentals
- Big Data Analytics in the Cloud

### FREE ELECTIVES

*Note: Electives offered are subject to change.*

- Digital Economy
- Principles of Entrepreneurship
- Startup Foundry

## MOHE COMPULSORY GENERAL STUDIES SUBJECTS

### For Local Students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*[Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu] / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

### For International Students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2



# ENGINEERING

Areas embedded across Engineering programmes at Sunway:



AI & Data Analytics



Industry 4.0



Environment & Sustainability

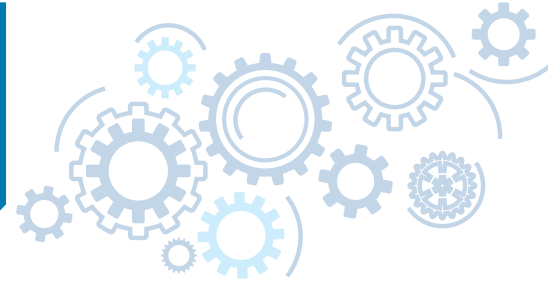


Communication & Entrepreneurship








COLLABORATIONS WITH INDUSTRY PARTNERS:





# FIELDS IN ENGINEERING

Programme	 Electronic & Electrical Engineering	 Mechatronics Engineering (Robotics)	 Mechanical Engineering	 Chemical Engineering	 Civil Engineering
Specialised Fields	Artificial Intelligence & Data Analytics				
	Engineering Design & Project Management with Sustainability				
	Programming				
	Electronic Systems		Materials		
	Computer Architecture & Systems			Environmental Engineering	
	Telecommunication Systems		Thermodynamics & Fluid Mechanics		Construction Technology
	Digital Signals & Systems				
	Instrumentations & Control				Structural Design
	Embedded Systems		Automotive	Chemical Process Design	
	Digital Image & Video Processing				Geotechnical & Geological Studies
	Advanced Digital System Design	Computer-Aided Design & Simulations		Chemical Reactions	
		Robotics & Industrial Automation	Renewable Energy Generation		Transportation Engineering
	Wireless Sensor Networks	Computer Modeling & 3D Printing		Separation Technology	
	Electrical Power & Drive Systems	Actuations		Chemical Plant Design	
	Industry 4.0			Water Management	

# BACHELOR OF CHEMICAL ENGINEERING WITH HONOURS

## PROGRAMME INTRODUCTION

Chemical Engineering is a discipline dealing with creating, developing and designing processes to produce, transform or transport products and materials. It combines the knowledge of natural, experimental and life sciences as well as aspects of maths and economics to investigate problems and design solutions for issues such as safety, efficiency and sustainability. Chemical Engineers pioneer new materials and technologies of the future; they design equipment for chemical manufacturing, develop and manage industrial processes that turn raw materials into the most useful products.

Chemical engineers solve major societal challenges in energy, human health, manufacturing and sustainability. They use the knowledge of material and energy balances, heat and mass transfer, thermodynamics, fluid mechanics, separations technologies, chemical reaction kinetics, reactor design, and process design to create sustainable manufacturing processes, robust chemical plants and safe equipment design.

This programme is recognised as equivalent to that of the Lancaster University's MASTER OF ENGINEERING CHEMICAL ENGINEERING WITH HONOURS (MEng Hons). Upon successfully completing the programme, graduates will also be awarded the MEng Hons degree from Lancaster University. They will be awarded two certificates, making them graduates of both Sunway University and Lancaster University.

VALIDATED BY:



## PROGRAMME STRUCTURE - Subjects

### Year 1

- Chemical Process Calculations
- Communication Skills
- Design & Innovative Thinking
- Engineering Mathematics 1
- Engineering Materials
- Engineering Mathematics 2
- Fluid Mechanics
- Organic Chemistry
- Physical Chemistry
- Sustainable Engineering Design

### Year 2

- Advanced Engineering Calculus
- Chemical Engineering Laboratory 1
- Chemical Engineering Thermodynamics
- Engineering Statistics & Probability
- Engineers in Society
- Entrepreneurial Mindset & Skills
- Heat Transfer
- Mass Transfer & Separation Processes
- Numerical Methods for Chemical Engineers
- Plant Design & Process Synthesis
- Project Management & Engineering Design

### Year 3

- Chemical Engineering Laboratory 2
- Chemical Engineering Laboratory 3
- Chemical Process Safety
- Chemical Reaction Engineering
- Data Analytics for Engineers
- Design Project 1
- Industrial Training
- Multiphase System
- Process Dynamics & Control
- Reactor Design & Analysis
- Transport Phenomena

### Year 4

- Advanced Biochemical Engineering
- Advanced Electrochemical Engineering
- Advanced Process Control
- Advanced Wastewater Engineering
- Design Project 2
- Final Year Project 1
- Final Year Project 2

### Year 4 Electives (Choose 2)

- Carbon Capture & Storage
- Environment & Climate Change
- Nanomaterials & Nanotechnology
- Petroleum Refining & Gas Processing

## MOHE COMPULSORY GENERAL STUDIES SUBJECTS

### For Local Students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*(Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu) / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

### For International Students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2



## CAREER PROSPECTS

- Chemical Data Analyst
- Design Engineer
- Environmental Engineer
- Material Engineer
- Petroleum Process Engineer
- Product Development Scientist
- Process Engineer
- Production Engineer



# BACHELOR OF ELECTRONIC AND ELECTRICAL ENGINEERING WITH HONOURS

## PROGRAMME INTRODUCTION

Electronic and Electrical Engineering specialises on electrical and electronic equipment, interfaces and communications. Electrical engineering tends to focus on larger scale electrical equipment and power, whilst electronic engineering is more focused on electronic circuits and devices, computer and communication systems. It gives a fascinating insight into how electrical devices and technology work and in a future that will likely be full of new electric technologies.

The programme gives students a strong technical knowledge in a variety of areas, which include electronics, signal processing, power engineering, computer and communication systems and engineering management. Alongside the theories, students also learn through hands-on practical exposure to ensure that they are prepared for engineering work upon graduation.

This programme is recognised as equivalent to that of the Lancaster University's MASTER OF ENGINEERING ELECTRONIC AND ELECTRICAL ENGINEERING WITH HONOURS (MEng Hons). Upon successfully completing the programme, graduates will also be awarded the MEng Hons degree from Lancaster University. They will be awarded two certificates, making them graduates of both Sunway University and Lancaster University.

VALIDATED BY:



## PROGRAMME STRUCTURE - Subjects

### Year 1

- Analogue Electronic Fundamentals
- Digital Electronic Fundamentals
- Electrical Circuits
- Engineering Materials
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Physics
- Instrumentation, Measurement, & Controls
- Programming for Engineers

### Year 2

- Advanced Engineering Calculus
- Artificial Intelligence
- Control Systems
- Communication Skills
- Communication Systems
- Electrical Power Systems
- Electronic Systems
- Engineering Electromagnetics
- Engineering Mathematics 3
- Engineers in Society
- Entrepreneurial Mindset & Skills
- Microprocessor Systems
- Project Management & Engineering Design
- Signals & Systems
- Sustainable Engineering Design

### Year 3

- Advanced Digital Design
- Artificial Intelligence for Engineering Applications
- Computer Networks
- Data Analytics for Engineers
- Digital Image & Video Processing
- Digital Signal Processing
- Electrical Machines
- Integrated Design Project 1
- Integrated Design Project 2
- Numerical Methods for Engineers
- Power Electronics & Drivers

### Year 4

- Advanced Computer Architecture
- Engineering Design for Industrial Revolution 4.0
- Industrial Training
- Final Year Project 1
- Final Year Project 2
- Networked Embedded Systems
- Wireless & Optical Communications

## MOHE COMPULSORY GENERAL STUDIES SUBJECTS

### For Local Students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*(Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu) / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

### For International Students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2



## CAREER PROSPECTS

- Communication Engineer
- Computer Engineer
- Control Engineer
- Design Engineer
- Electrical Engineer
- Electronic Engineer
- Engineering Consultant
- Hi-tech Entrepreneur
- Product Development Engineer
- Robotics Engineer





# BACHELOR OF MECHANICAL ENGINEERING WITH HONOURS

## PROGRAMME INTRODUCTION

The Mechanical Engineering programme is a modern, project-based degree which aims to produce graduates who address the Grand Challenges for Engineering and the UNSDG's.

As a project-based degree, our students will Conceive-Design-Implement-Operate at least 4 engineering systems (or projects) throughout their degree, with at least 2 of such projects being based in real-life industry challenges.

Their projects will address the Grand Challenges and the UNSDG's. To assist them, students will also be taught to meaningfully use current Industry 4.0 tools and softwares such as 3D Printing, Computational Fluid Dynamics and Finite Element Method.

This programme is recognised as equivalent to that of the Lancaster University's MASTER OF ENGINEERING MECHANICAL ENGINEERING WITH HONOURS (MEng Hons). Upon successfully completing the programme, graduates will also be awarded the MEng Hons degree from Lancaster University. They will be awarded two certificates, making them graduates of both Sunway University and Lancaster University.

VALIDATED BY:



## PROGRAMME STRUCTURE - Subjects

### Year 1

- Communication Skills
- Engineering Materials
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Physics
- Engineers in Society
- Programming for Engineers
- Sustainable Engineering Design

### Year 2

- Advanced Engineering Calculus
- Computer Modelling & 3D Printing
- Dynamics
- Electrical Power Systems
- Engineering Mathematics 3
- Entrepreneurial Mindset & Skills
- Fluid Mechanics
- Project Management & Engineering Design
- Statics
- Thermodynamics & Heat Transfer

### Year 3

- Advanced Fluid Mechanics
- Advanced Thermodynamics & Heat Transfer
- Instrumentation, Measurement, & Controls
- Manufacturing Processes
- Microprocessor Systems
- Numerical Analysis & Simulation Tools in Engineering Design
- Solid Mechanics
- Vibrations

### Year 4

- Final Year Project 1
- Final Year Project 2
- Industrial Training
- Mechanical Engineering Group Project 1
- Mechanical Engineering Group Project 2

### Year 4 Electives (Choose 5)

- Artificial Intelligence for Engineering Applications
- Transportation Engineering
- Nanomaterials and Nanotechnology
- Environment and Climate Change
- Signals and Systems
- Robotics Project
- Principles of Entrepreneurship
- Startup Foundry

## MOHE COMPULSORY GENERAL STUDIES SUBJECTS

### For Local Students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*(Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu) / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

### For International Students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2



## CAREER PROSPECTS

- Automotive Engineer
- Automation Engineer
- CAD/CAM Engineer
- Design Engineer
- Manufacturing Engineer
- Materials Engineer
- Mechanical Engineer
- Project Engineer
- Robotic Engineer
- Systems Engineer



# BACHELOR OF MECHATRONIC ENGINEERING (ROBOTICS) WITH HONOURS\*

## PROGRAMME INTRODUCTION

Mechatronic Engineering (Robotics) programme focuses on the integration of mechanical, electronic and computer control, which addresses the engineering needs of Industry 4.0. This programme is also structured for specialisation in robotics engineering.

The programme prepares graduates to be ready for the future workforce with strong focus on Artificial Intelligence and Industrial Automation. Throughout the programme, emphasis on sustainability and real-world learning is achieved through incorporation of industry-related and UN SDG- related project-based learning. Students explore sustainable solutions to real-world problems by employing technologies such as AI, Data Analytics, Industrial Automation, Robotics and Internet-of-Things.

This programme is supported by laboratory facilities that are developed with industry partnerships i.e. the Collaborative Robots and Industrial Automation Laboratory and Mobile Robotics Laboratory.

## VALIDATED BY:\*



\*Subject to approval



## CAREER PROSPECTS

- Automation Engineer
- Construction M&E Engineer
- Electronic Engineer
- Field Service Engineer
- Instrumentation Engineer
- Mechanical Design Engineer
- Mechatronics Project Engineer
- Product Engineer
- Project Engineer
- Researcher
- Robotics Engineer

## PROGRAMME STRUCTURE - Subjects

### Year 1

- Analogue Electronic Fundamentals
- Communication Skills
- Digital Electronic Fundamentals
- Electrical Circuits
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Physics
- Engineering Materials
- Instrumentation, Measurement, & Controls
- Programming for Engineers

### Year 2

- Actuators & Drives for Robotics Applications
- Artificial Intelligence
- Control Systems
- Interfacing & Integration
- Machine Elements
- Entrepreneurial Mindset & Skills
- Engineering Mathematics 3
- Robotics Project
- Statics
- Sustainable Engineering Design

### Year 3

- Artificial Intelligence for Engineering Applications
- Computer Modelling & 3D Printing
- Data Analytics for Engineers
- Digital Image & Video Processing
- Electrical Power Systems
- Engineers in Society
- Industrial Automation Systems
- Dynamics
- Mechatronic Design Project 1
- Microprocessor Systems
- Numerical Analysis & Simulation Tools in Engineering Design
- Project Management & Engineering Design

### Year 4

- Cyber-Physical Production Systems
- Final Year Project 1
- Final Year Project 2
- Industrial Training
- Mechatronic Design Project 2
- Robotics Systems

### Year 4 Electives (Choose 2)

- Advanced Computer Architecture
- Digital Signal Processing
- Communication Systems
- Computer Networks

## MOHE COMPULSORY GENERAL STUDIES SUBJECTS

### For Local Students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*(Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu) / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

### For International Students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2



# BACHELOR OF CIVIL ENGINEERING WITH HONOURS

## PROGRAMME INTRODUCTION

Civil Engineering programme equips students with a robust foundation in civil engineering principles, emphasizing sustainability and the integration of Artificial Intelligence (AI) to address modern engineering challenges. The programme offers a comprehensive curriculum that combines core civil engineering subjects with cutting-edge topics in sustainability and AI, preparing graduates to lead in innovative and eco-friendly infrastructure development.

The programme places a strong emphasis on sustainable practices, integrating courses such as Sustainable Engineering Design and Sustainable Digital Construction Technology. A key feature of the programme is its focus on AI. Courses such as Data Analytics for Engineers and AI in Civil Engineering utilise AI technologies to optimise designs, predict maintenance needs, and enhance construction processes.

Hands-on experience and soft skills are cornerstones of the programme. Students participate in laboratory work, project-based learning and industry placements, providing practical experience with the latest tools and technologies.



## CAREER PROSPECTS

- BIM Engineer
- Building Control Surveyor
- Consulting Engineer
- Design Engineer
- Geotechnical Engineer
- Hydraulic Engineer
- Project Engineer
- Site Engineer
- Structural Engineer
- Traffic / Transportation Engineer
- Water Engineer

## PROGRAMME STRUCTURE - Subjects

### Year 1

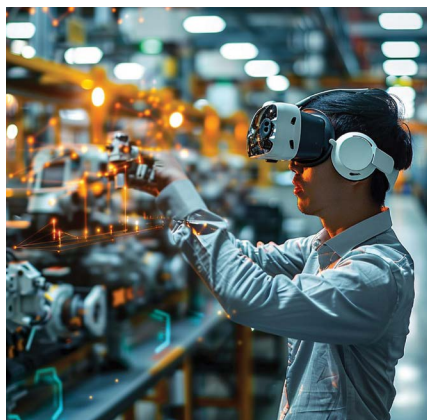
- Artificial Intelligence
- Communication Skills
- Engineering Materials
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Mechanics & Dynamics
- Engineers in Society
- Programming for Engineers
- Topographical Engineering
- Sustainable Engineering Design

### Year 2

- Accounting & Finance for Engineers
- Civil Engineering Materials
- Data Analytics for Engineers
- Engineering Geology & Soil Mechanics
- Engineering Mathematics 3
- Entrepreneurial Mindset & Skills
- Fluid Mechanics
- Introduction to Civil Engineering Design Philosophy
- Project Management & Engineering Design
- Structural Analysis
- Sustainable Digital Construction Technology

### Year 3

- Advanced Structural Analysis
- AI in Civil Engineering
- Civil Engineering Integrated Design Project 1
- Construction Camp
- Geotechnical Engineering
- Hydraulic System & Design
- Reinforced Concrete Design
- Road and Pavement Engineering
- Structural Steel & Composite Design
- Terrestrial Hydrology
- Transportation Engineering



### Year 4

- Civil Engineering Integrated Design Project 2
- Final Year Project 1
- Final Year Project 2
- Industrial Training
- Water & Wastewater Systems Design & Operation

### Year 4 Electives (Choose 4)

- Advanced Concrete & Fastening Design
- Advanced Structural Steel Design
- Advanced Water Resources Engineering
- Bridge Engineering
- Finite Element & Advanced Computational Method
- Foundation Engineering
- Innovative & Sustainable Building Material Design
- Precast Concrete Design
- Solid Waste Management
- Special Concrete
- Structural Dynamics & Earthquake Engineering
- Tall Building Design

## MOHE COMPULSORY GENERAL STUDIES SUBJECTS

### For Local Students:

- Appreciation of Ethics & Civilisation
- Bahasa Kebangsaan A  
*(Applicable to students who did not sit for SPM or did not obtain a Credit in SPM Bahasa Melayu) / Critical Thinking*
- Community Service for Planetary Health
- Integrity & Anti-Corruption
- Philosophy & Current Issues

### For International Students:

- Appreciation of Ethics & Civilisation
- Community Service for Planetary Health
- Critical Thinking
- Integrity & Anti-Corruption
- Malay Language for Communication 2

# FACILITIES

## SCHOOL OF ENGINEERING & TECHNOLOGY LABS

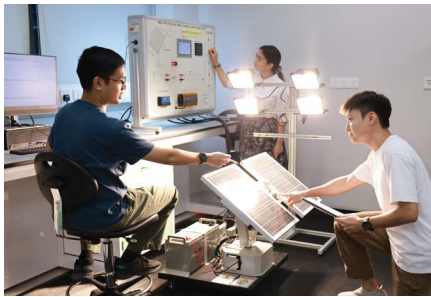
The School of Engineering & Technology is well-equipped with state-of-the-art facilities to meet our teaching and research needs. We constantly invest in upgrading, constructing or acquiring new facilities to enhance the learning experience and advance our research possibilities.



Osborne Reynold's Demonstration



Carpentry Workshop



Solar Energy Unit



FDM 3D Printer (multi-colour)



SLA 3D Printer



Modular Educational Systems for Drivers of DC Motors



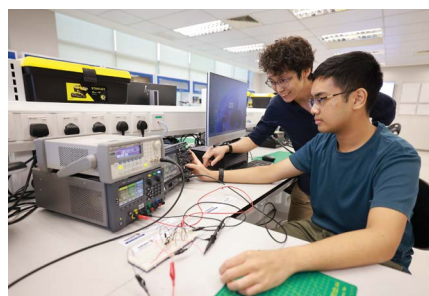
Chemical Reaction and Process Control Lab



Distillation Column



Modular System for the Study of Sensors



Oscilloscope, Function Generator, and Power Supply



Computer-Controlled Modular Control and Regulation Unit with Ball and Beam Module



School of  
**ENGINEERING &  
TECHNOLOGY**



CyberSecurity Intelligence (CSI) Lab



Heat Transfer Lab



Fluid Mechanics Lab



Chemistry Instrument Lab



Instrumentation and Control Lab



Engineering Physics Lab



House of Multimodal Evolution (HOME) Lab



Research Centre for Nano-Materials and Energy Technology Lab



Sunway Centre for Electrochemical Energy and Sustainable Technology Lab



Chemical Engineering Lab equipped with Mass Spectrometer (ICP-OES)

**MORE LABS  
COMING SOON:**



- Renewable Energy Lab
- Mechanical Workshop
- Solid Mechanics and Materials Lab
- Light & Heavy Structural Lab
- Concrete and Highway Lab
- Environmental and Water Resource Lab
- Building Information Modeling (BIM) Lab
- XR Lab
- Chemical Engineering Pilot Plant
- Collaborative Robots and Industrial Automation Lab
- Mobile Robotics Lab & more!

# MOBILITY & STUDY ABROAD

PROGRAMME	MOBILITY OPTIONS*							
	Lancaster University		Australian National University	University of Western Australia	University of California, Berkeley		Korean Summer/Winter	
	Summer programme	Study abroad	Transfer	Transfer	Start-up semester	Bootcamp		
	Duration							
	3 weeks	1 semester	1+2 years	2+2 years	1+2 years	1 semester	4½ days	2 weeks
COMPUTER SCIENCE	✓	✓	✓	✓	✓	✓	✓	✓
INFORMATION SYSTEMS (DATA ANALYTICS)	✓	✓	✓	✓	✓	✓	✓	✓
INFORMATION TECHNOLOGY (COMPUTER NETWORKING AND SECURITY)	✓	✓	✓	✓	✓	✓	✓	✓
SOFTWARE ENGINEERING	✓	✓	✓	✓	✓	✓	✓	✓
INFORMATION TECHNOLOGY	✓	✓	✓	✓	✓	✓	✓	✓
CHEMICAL ENGINEERING	✓	✓	-	✓	-	-	-	✓
ELECTRONIC & ELECTRICAL ENGINEERING	✓	✓	-	✓	-	-	-	✓
MECHANICAL ENGINEERING	✓	-	-	✓	-	-	-	✓
CIVIL ENGINEERING	✓	-	-	-	-	-	-	✓
MECHATRONIC ENGINEERING (ROBOTICS)	✓	-	-	-	-	-	-	✓

\*Terms & conditions apply. The study plan may change on a case-by-case basis.



# ACTIVITIES BEYOND THE CLASSROOM

## COMPETITION AND RECOGNITION



Bachelor of Information Systems (Honours) (Data Analytics) student being recognised by the Premier Digital Tech Institutions (PDTI), MDEC.



Natalie Ng Yin Xin, a Bachelor of Science (Honours) in Computer Science student won the 2024 Generali Malaysia Volare Scholarship Award of RM 36,000.



Andrea Tan Chiao Pin, a Bachelor of Chemical Engineering with Honours student at Sunway University, has made us proud at the recent Times Higher Education Asia Universities Summit 2024!

She took part in the fireside chat and spoke about how AI is one of the major disruptors of the job market. Andrea's insightful contributions highlight the need for educational institutions to evolve and adapt to the changing landscape of the job market. Her participation underscores the importance of developing well-rounded graduates who are prepared to tackle future challenges with confidence and competence.



Our final-year Bachelor of Information Systems (Honours) (Data Analytics) students (Chan Ming Li, Goh Jia Ying, Lai Jing Kun, Leanne Ooi Xin Ru) won the championship in a Datathon 2024 Competition organized by MCMC and Jomhack. Competing against 30 teams, our BSDA students emerged as champion with their impressive courier demand prediction model.



Geoi Ree Gyn, a Bachelor of Information Systems (Honours) (Data Analytics) student won the world champion title at the 2024 Open World Dance Championship in UK Blackpool! Geoi Ree Gyn triumphed in "The Open Worlds Amateur Latin Solo", outperforming over 20 top dancers from across the globe, including countries like England, Ireland, Italy, Austria, Sweden and more!



Kelwin Tan Seen Tiong, a Doctor of Philosophy (Computing) and team members, Prof. Angela Lee Siew Hoong & Dr Ganesh Kumar from Department of Computing and Information Systems won the Diamond Award under the PhD Category at the Final Year Project & Postgraduate Research & Innovation Poster Competition 2024 (RIPC 2024). The project title is Decoding the Multifaceted Catalysts for Blockchain Technology Adoption in Malaysia's Healthcare System.



A team of students from School of Engineering and Technology, Sunway University and School of Art took part in an international Net Zero Tech Contest in Taiwan as one of the top 20 finalists.



5 October 2024 – First SUNCTF 2024 competition held by the Cyber Security Club in Sunway University.

# WORKSHOPS

**INSIGHT FROM ENGINEERING PIONEERS**

MODERATOR

Prof. Ts. Dr. Angela Lee  
Deputy Dean (Employability & Alumni)

Prof. Ir. Denny Ng  
Dean, School of Engineering and Technology

Liew Soo Keang  
Group Executive Director

Viktor Teh  
Employer Training Assistant Manager

Chai Chun Seng  
Director of Compact & Integrated Online Study Development in AIT

26 JUNE 2024 3 - 5 PM ROOFTOP TERRACE, SUNWAY COLLEGE

REGISTER HERE



26 June 2024 - Sunway Analytics Society hosted a Panel Discussion in collaboration with Sunway Robotics Club, titled *Insight from Engineering Pioneers*. This event features a panel of esteemed engineering professionals, who shared their insights into career journeys, challenges, and triumphs in various engineering disciplines.



IT Recruitment Drive 2024 with participating employers ANT International, Boostorder, DKSH COMPANY, Emagine Edu Consultancy, Maxis, NMG Consulting, Ørsted, PayNet, Prasarana, Public Bank, PwC Malaysia, Schlumberger, Talentbank, and Vlan Asia. This event provided Sunway students with invaluable opportunities and insights into the ever-evolving tech industry.



Inaugural Engineering Showcase (SUNSpark) organised by Sunway University IEM Student Section



SustHack Bootcamp 2024 was held on 1-5 April. Sunway University students and students from Singapore Polytechnic students formed groups and developed solution ideas to target problems related to relevant SDGs. The talks during the bootcamp gave students a solid exposure to exciting impactful projects/initiatives beyond classroom.

**Invited Speaker**

**OPPORTUNITIES AND CHALLENGES FOR RURAL WIRELESS IOT COMMUNICATIONS**

**PROF. IR. DR. ROSDIADEE NORDIN**

Professor, Sunway University

THINKER SPACE, B1, SET BUILDING, Sunway University

WEDNESDAY - 9.00 AM - 16 OCT. 2024

Registration Link: <https://forms.gle/qS97cq2UvJUvzkha8>

https://apmttemc.org/ | IEEE Malaysia AP/MTT/EMC Joint Chapter | IEEE MY APMTTEMC

Workshop by Prof. Ir. Dr. Rosdiadee Nordin under the IEEE Malaysia Antenna Propagation / Microwave Theory Technique / Electromagnetic Compatibility (AP/MTT/EMC) Joint Chapter - AP Technical Meeting Series 4/2024.



3 October 2024 - Up Close Tea Session with the Dean of School of Engineering and Technology.



# TALKS

**DATA SCIENCE WORKSHOP SERIES**  
"EXPLORING CUTTING-EDGE DATA SCIENCE: INSIGHTS INTO TIME SERIES ANALYSIS AND GENERATIVE AI"

Speakers:  
 Dr. Jyoti Gautam, Chair IWA-Digital Water India, State President, Delhi AI Council, India  
 Prof. Amlan Chakrabarti, Director, A.K. Choudhury School of IT, University of Calcutta, India

Agenda:

Time	Event
3:00 - 3:15pm	Introduction, Inauguration and Workshop
3:15 - 4:00pm	Mastering Time Series: Analysis and Forecasting Techniques
4:00 - 4:45pm	Demystifying Generative AI
4:45 - 5:00pm	Question and Answer session

Date: 8th March 2024  
 Time: 3:00pm to 5:00pm  
 Venue: UC3-3, Level 3, Sunway University

Registration: [https://bit.ly/202403\\_DSWorkshop](https://bit.ly/202403_DSWorkshop)

8 March 2024 - Workshop titled: "Exploring Cutting-Edge Data Science: Insights into Time Series Analysis and Generative AI", organised by School of Engineering and Technology and IEEE Computer Society Malaysia Chapter, with two invited international speakers shared their knowledge and experience in the area of data science and AI: Prof. Amlan Chakrabarti (University of Calcutta, India) and Dr. Jyoti Gautam (INSUT-East Campus, India).

**ENGINEERING TALK SERIES**

Speaker:  
 Dr. Shen Hin Lim, Senior Lecturer, School of Engineering, Teaching and Research, Waikato University, New Zealand

**NZ HORTICULTURAL ROBOTICS, WAIRAS SPIN**

Synopsis:  
 Technological advancements, along with multiple legislative aspects, such as lack of labour and general labour shortage in horticulture fields, have sparked a rapid growth in horticulture automation and robotics over the past 15 years. There are successful demonstrations in different aspects of horticulture tasks such as crop and fruit harvesting, flower positioning and timing, crop and fruit detection in different cycle phases and smart spatial monitoring and management of weeds, crops, and fruits. However, it remains challenging for smart systems to achieve the density, complexity, and speed of human motion in completing horticulture tasks with full autonomy capability.

Date: 15th March 2024  
 Time: 11am to 12pm  
 Venue: Physics Lab, SET Labs (Ex-SIS Building), Sunway University

15 March 2024 - Engineering Talk Series: NZ Horticultural Robotics, Wairas conducted by Dr. Shen Hin Lim, Programme Leader of Mechatronics Engineering, University of Waikato, New Zealand.

**Online WEBINAR**  
**How to Address and Improve NOVELTY.**

THE TOP-RANKING SCIENTIST IN MALAYSIA

DATE: 20th Feb, 2024  
 TIME: 4 PM-5 PM (MYT)

PROF. SAIGOUR BANMAN  
 DISTRICT INNOVATION ADVISORY & LEAD, INNOVATION & ENTREPRENEURSHIP, UNIVERSITY OF SUNDSWAY

It is a highly important to identify and highlight novelty in high quality journal publications. Novelty is a 2nd essential for high quality journal research, which is often prepared by students and researchers. Many young areas researchers face difficulties to address the novelty requirement in a journal paper to be published in the international journal of high quality journals. This webinar discussion among the researchers in this hands on interactive session, will discuss and explore the understanding of novelty, how to identify their research novelty areas of research. Through this understanding, the young researchers will be able to identify their research areas of high quality journal to be prepared and discussed.

20 February 2024 - Online Webinar: How to Address & Improve Novelty.

**Flat Optical Fibre for smarter Sensing: Potential Enhancements through AI and Applications**

Date: 23rd August 2024  
 Time: 10.30am - 11.30am  
 Venue: SET Level B3 Training Room

**SYNOPSIS**  
 The presentation will discuss the latest advancements in sensing flat optical fibre (FOF), the University of Southampton and research in this field through optical fibre sensing technology. This presentation will discuss the latest research in sensing flat optical fibre (FOF) for various applications. These FOFs have a core size and a cladding layer that is comparable to traditional optical fibres, but they are flexible and can be used in a wide range of applications. This presentation will discuss the latest research in sensing flat optical fibre (FOF) for various applications. These FOFs have a core size and a cladding layer that is comparable to traditional optical fibres, but they are flexible and can be used in a wide range of applications. This presentation will discuss the latest research in sensing flat optical fibre (FOF) for various applications. These FOFs have a core size and a cladding layer that is comparable to traditional optical fibres, but they are flexible and can be used in a wide range of applications.

**THE SPEAKER**  
 Dr. Amlan Chakrabarti is an Associate Professor at the University of Southampton, he holds a Royal Society University Fellowship with 200+ research and projects and is the past president of the IEEE Computer Society Malaysia Chapter. He is also a past president of the IEEE Computer Society Malaysia Chapter. He is also a past president of the IEEE Computer Society Malaysia Chapter. He is also a past president of the IEEE Computer Society Malaysia Chapter.

23 August 2024 - Talk on "Flat Optical Fibre for smarter Sensing: Potential Enhancements through AI and Applications".



6 February 2024 - Guest Lecture - Insights into IEM's Role in Malaysia.

# STUDY TRIPS & VISITS



18 September 2024 - Hosted students from Singapore Polytechnic. Doing a workshop in designing a sustainable building.



11 - 12 April 2024 - SET Taiwan Student Study Trip 2024 led by Professor Ir. Ts. Dr Yap Kian Meng.



18 September 2024 - Hosted a Chemical Engineering Labs Visit from Institute of Technical Education (ITE), Singapore.

# BRINGING YOU FURTHER

## INTERNSHIP AND EMPLOYMENT OPPORTUNITIES

### Aerospace

- GE Aerospace
- Honeywell
- Lockheed Martin

### AgriTech

- IOI Corporation Bhd

### Automotive

- BMW
- Mercedes-Benz (M) Sdn Bhd
- Perodua
- Proton
- Sime Darby

### Building Material

- Tasek Corporation Bhd
- YTL

### Computer Software

- Acestar Sdn Bhd
- Appitivity Lab Sdn Bhd
- AS Networks (M) Sdn Bhd
- Ascentrio Sdn Bhd
- BASS Sdn Bhd
- Commerce.Asia
- Cornet Research
- Dassault Systèmes
- Fusionex Corp Sdn Bhd
- Juris Technologies Sdn Bhd
- Netiquette Software (M) Sdn Bhd
- PeopleQuest
- Philip Solutions PLT
- PulseSync Sdn Bhd
- SAS Institute Sdn Bhd
- Service Rocket

### Computer Hardware

- Dell
- Hewlett-Packard
- Western Digital

### Construction

- Gamuda
- IJM Corporation
- Sunway Construction

### Cybersecurity

- Condition Zebra (M) Sdn Bhd
- LGMS Malaysia
- Sysarmy Sdn Bhd
- Vigilant Asia (M) Sdn Bhd

### E-commerce Service

- iPay 88 Sdn Bhd
- Shopee

### Electronics

- Dyson Manufacturing Sdn Bhd
- Flextronics Group
- Globetronics
- Panasonic Group
- Samsung Group
- Sony

### Energy Solutions

- Baker Hughes
- First Solar Malaysia Sdn Bhd
- General Electrics (GE)
- Ranhill Worley
- Schneider Electric
- Technip

### Information Technology

- Accenture
- Delaware Consulting (M) Sdn Bhd
- Hilti Asia IT Services (HAITS)
- IBM Malaysia
- Mesiniaga Berhad
- Metacloud Sdn Bhd
- Quandatics Sdn Bhd
- Sunway Group IT Shared Services Sdn Bhd
- Tencent Cloud International

### Manufacturing

- Continental Tyres
- Daikin
- Hartalega
- Top Glove

### Multinational Technology

- Alibaba Group
- Grab Holdings

### Oil & Gas

- Exxon
- Petronas
- Shell

### Oilfield Services & Equipment

- Schlumberger

### Oleochemicals

- Kuala Lumpur Kepong Berhad
- FPG Oleochemicals

### Research

- Institute for Democracy and Economic Affairs (IDEAS)
- MIMOS Berhad

### Semiconductors

- Intel Group
- Infineon Technologies
- OSRAM Opto
- Semiconductors Malaysia Sdn Bhd
- Carsem (M) Sdn Bhd
- Unisem (M) Bhd
- SilTerra Malaysia Sdn Bhd

### Telecommunication

- Digi Telecommunications
- Huawei Technologies (M) Sdn Bhd
- Maxis Bhd
- Motorola
- Telekom Malaysia
- TIME dotcom Bhd
- Webe Digital

### Transportation/Logistics

- Commerceone Solution Sdn Bhd
- DHL Information Services
- DKSH
- Grab

### Transportation Solution

- Alstom
- Mott-Macdonald

### Utilities

- TNB
- YTL Power
- Powertek
- Genting Sanyen Power

### Web Development

- Ebryx Tech
- Excelfixer

### Accounting

- Deloitte SEA Services Sdn Bhd
- Ernst & Young (EY)
- KPMG
- Pricewaterhouse Coopers

**Banking**

- CIMB Bank Bhd
- Hong Leong Bank Bhd
- Malayan Banking Berhad
- OCBC Bank
- Public Bank Berhad
- RHB Bank
- Standard Chartered Bank Malaysia
- UOB Bank

**Business service**

- Experian
- FUJIFILM Business Innovation
- GrowthOps
- Ikano Insight
- INFOPRO
- NielsenIQ
- Konica Minolta Business Solutions
- Priority Dynamics Sdn Bhd
- Roche Services (APAC) Sdn Bhd

**Consumer Goods & Services**

- Carlsberg
- Dutch Lady Milk Industries
- Estee Lauder
- F&N
- FOS Apparel Group Sdn Bhd
- Heineken
- Nestle
- Sherwin Williams Services (M) Sdn Bhd

**Food & Beverage**

- MyBurgerlab
- Sushi Kin Sdn Bhd

**Marketing & Advertising**

- Bean Search Expert Sdn Bhd
- C27
- IPG Media Brands Malaysia
- Moving Walls Sdn Bhd
- SearchGuru Sdn Bhd

**Media and Broadcast Solutions**

- Grass Valley (M) Sdn Bhd
- Media Prima Berhad

**Media/Entertainment**

- Cinema Online Sdn Bhd

**Publishing**

- Penerbitan Pelangi Sdn Bhd

**Theme Park**

- Sunway Lagoon

**Travel Agency**

- Sunway Travel Sdn Bhd



**Sunway University  
Tops Talentbank's Graduate  
Employability Ranking for Third  
Consecutive Year 2022, 2023 & 2024**



**Opportunities in Sunway Group**

The Sunway Group is one of Southeast Asia's leading conglomerates with 13 business divisions across more than 50 locations worldwide and a 16,000-strong employee base. The 13 business divisions are:



- |                      |               |                                   |               |                                  |
|----------------------|---------------|-----------------------------------|---------------|----------------------------------|
| • Building Materials | • Education   | • Investment & Financial Services | • Malls       | • REIT & other real estate funds |
| • Construction       | • Healthcare  | • Leisure                         | • Quarry      | • Trading & Manufacturing        |
| • Digital            | • Hospitality |                                   | • Real Estate |                                  |

# EXTERNAL ADVISORY COMMITTEE

External Advisory Committee (EAC) acts as an advisory committee for the Programmes Committee. It comprises of leaders in academia and industry as well as student alumni who support and are able to provide counsel and guidance for programme development in order for the programme to achieve its goals.

## ENGINEERING



**Ir. Dr Calvin Chok Vui Soon**  
**Company:** Kuala Lumpur Kepong (KLK) Berhad  
**Position:** Senior Manager, Group Sustainability and Special Projects



**Mr Chee Seng Kee**  
**Company:** Keysight Technologies  
**Position:** Application Development Engineer



**Ir. Chang Yew Cheong**  
**Company:** Abbaco Controls Sdn Bhd  
**Position:** Director



**Ir. Chen Thiam Leong**  
**Company:** Primetech Engineers Sdn Bhd  
**Position:** Advisor



**Dr Chin Wai Meng**  
**Company:** Daikin Research & Development Malaysia Sdn Bhd  
**Position:** Deputy General Manager, Development Support Division



**Mr Chin Wei Rick**  
**Company:** Medline Industries Sdn Bhd  
**Position:** Project Manager



**Ir. Chong Chew Fan**  
**Company:** Greatians Consulting Sdn Bhd  
**Position:** Director



**Mr Chong Kee Yum**  
**Company:** Bursa Malaysia  
**Position:** Manager, PMO



**Mr Henry Lee Siew Hang**  
**Company:** Sustainpact Consultancy  
**Position:** Director of Corporate Sustainability



**Ts. Nadzifah Hayati Binti Ariffin**  
**Company:** Tenaga Nasional Berhad  
**Position:** Chief Engineer (Asset Strategy & Policies) Distribution Network



**Ir. Dr Ng Kok Chiang**  
**Company:** ACO Group Berhad  
**Position:** Member Board of Directors



**Ir. Rafil Elyas**  
**Company:** East One-Zero-One Sdn Bhd  
**Position:** Owner & Principal Engineer



**Ir. Rozali Ahmad**  
**Company:** DAR Energy Sdn Bhd (DAR)  
**Position:** Director, Business Development



**Mr Tan Lim Wee Kwan**  
**Company:** Top Glove Berhad  
**Position:** Senior Project Manager



**Mr Tan Yeong Shun**  
**Company:** Texas Instruments  
**Position:** Data Intelligence Manager

## COMPUTING



**Ms. Abigail  
Sua Jee Qian**

**Company:**  
AirAsia Move Sdn Bhd  
**Position:**  
Senior Data Analyst



**Dr Afnizanfaizal  
Abdullah**

**Institution:** Malaysian  
Research Accelerator  
for Technology &  
Innovation (MRANTI)  
**Position:** General  
Manager (Technology  
Commercialization)



**Prof. Ts. Dr  
Aida Mustapha**

**Institution:**  
Universiti Malaysia  
Pahang Al-Sultan  
Abdullah  
**Position:** Deputy Vice-  
Chancellor (Research  
& Innovation)



**Ms. Ch'ng Ke Xin**

**Company:**  
Setel Ventures Sdn Bhd  
**Position:**  
Analyst (Data/Growth)



**Dr David  
Chieng Heng Tze**

**Institution:**  
University of Nottingham  
Ningbo China  
**Position:**  
Associate Professor



**Mr Faiz Fablillah**

**Company:** Electrolux  
**Position:** Head of Data  
Governance, Master  
Data Management &  
Advanced Analytics  
Asia Pacific & Middle  
East



**Mr Fong  
Choong Fook**

**Company:**  
LGMS Berhad  
**Position:**  
Chairman



**Mr Herman Bin  
Md Tahir**

**Company:**  
Appfluxion Consulting  
Sdn Bhd  
**Position:**  
Senior Test Manager



**Assoc. Prof.  
Dr Ian K. T. Tan**

**Institution:**  
Heriot-Watt University  
Malaysia  
**Position:** Head of School,  
School of Mathematical  
and Computer Sciences



**Mr Kevin  
Khoo Min Sinn**

**Company:**  
Sunway Group  
**Position:**  
Chief Information  
Officer



**Mr Khor  
Swee Kweng**

**Institution:**  
SAS Institute, Malaysia  
**Position:**  
Principal Adviser,  
Education & Academic  
Program



**Mr Peter Kua**

**Company:**  
Growth.Pro Data  
Science Consulting &  
Academy, Malaysia  
**Position:**  
Co-founder



**Dr Tan Ee Xion**

**Institution:**  
IMU University  
**Position:**  
Head of Department,  
Digital Health and  
Health Informatics,  
School of Business  
and Technology



**Dr William Yeoh**

**Institution:**  
Deakin University,  
Australia  
**Position:**  
Associate Professor



**Mr Lee Kok Seong**

**Company:**  
Takaful Ikhlas Family  
Berhad  
**Position:**  
Senior Vice President  
& Chief Information  
Officer



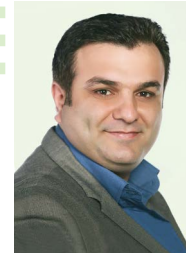
**Mr Vishwa Moorthy**

**Company:**  
Air IT  
**Position:**  
NOC Dispatcher



**Ts. Dr Ismamuradi  
Abdul Kadir**

**Company:**  
Risk Management  
Division, Bank Muamalat  
Malaysia Berhad  
**Position:**  
Chief Information  
Security Officer



**Dr Morteza  
SaberiKamarposhti**

**Institution:**  
Faculty of Computing  
and Informatics,  
Multimedia University  
Malaysia  
**Position:**  
Assistant Professor

# WHERE ARE OUR GRADUATES NOW?



**Aida Natasha Binti Khalil Ong**  
**BSc (Hons) Information Systems**  
**(Business Analytics)**  
*Now known as Bachelor of Information Systems (Honours) (Data Analytics)*  
**Company:** Maybank Investment Bank  
**Position :** Analyst, Strategic Solutions, Equity & Commodity Derivatives



**Fennie Lee Jia Xian**  
**Bachelor of Science (Honours) in**  
**Computer Science**  
**Company:** Hilti Asia IT Services (HAITS)  
**Position :** IT Cohort Lead Business Analyst



**Chaang Yunhua**  
**Bachelor of Science (Honours) in**  
**Computer Science**  
**Company:** Tencent Cloud International  
**Position :** Senior Partner Business Development Manager



**Joanavene Tan Qie Ven**  
**BSc (Hons) Information Technology**  
**(Computer Networking and Security)**  
**Company:** SeaMoney (Singapore)  
**Position :** Digital Banking IT Risk and Compliance Senior Associate



**Cheah Yung Jien**  
**BSc (Hons) Information Technology**  
**(Computer Networking and Security)**  
**Company:** Tridentech Solutions Sdn Bhd  
**Position :** Chief Technical Officer



**Lee Shu Yi**  
**Bachelor of Software Engineering (Hons)**  
**Company:** Ant Group  
**Position :** Product Manager



**Chee Chem Zing**  
**Bachelor of Science (Honours) in**  
**Information Technology**  
**Company:** Digital Route Sdn Bhd  
**Position :** Senior Software Engineer



**Lee Yi Fei**  
**BSc (Hons) Information Systems**  
**(Business Analytics)**  
*Now known as Bachelor of Information Systems (Honours) (Data Analytics)*  
**Company:** BASF Asia Pacific Service Centre Sdn Bhd  
**Position :** Business Solutions Consultant, Digitalization of R&D and Data Science



**Chen Kah Weng**  
**Bachelor of Science (Honours) in**  
**Computer Science**  
**Company:** Accenture Singapore  
**Position :** Technology Consultant



**Marcus Lu Xian-Zheng**  
**Bachelor of Science (Honours) in**  
**Computer Science**  
**Company:** DKSH Corporate Shared Services Center  
**Position :** Senior Robotics Process Automation (RPA) Developer



**Choong Moon Zhe**  
**Bachelor of Science (Honours) in**  
**Information Technology**  
**Company:** KPMG Malaysia  
**Position :** Software Developer



**Nghoh Chin Joe**  
**Bachelor of Science (Honours) in**  
**Computer Science**  
**Company:** Decision Science Agency Pte Ltd  
**Position :** Full Stack Developer



**Natalie Choo Yin Yii**  
Bachelor of Software Engineering (Hons)

**Company :** Grab Malaysia

**Position :** Software Engineer-backend



**Tan Tze Hong**  
Bachelor of Software Engineering (Hons)

**Company :** Maybank Berhad

**Position :** Technical Analyst



**Neeven Hossam Mohamed Elafifi**  
BSc (Hons) Information Systems  
(Business Analytics)

*Now known as Bachelor of Information Systems (Honours)  
(Data Analytics)*

**Company :** PwC (Middle East)

**Position :** Senior Consultant,  
IT Risk Assurance



**Tsai Yao Cherng**  
Bachelor of Science (Honours) in  
Computer Science

**Company :** Deloitte

**Position :** SEA IT Senior Manager



**Nicholas Chan Khin Whai**  
BSc (Hons) Information Systems  
(Business Analytics)

*Now known as Bachelor of Information Systems (Honours)  
(Data Analytics)*

**Company :** Accenture

**Position :** Security Consultant  
(Cybersecurity | Governance,  
Risk & Compliance)



**Tunku Intan Sophia Binti  
Tunku Noorzaman**  
Bachelor of Science (Honours) in  
Computer Science

**Company :** Access World

**Position :** IT Developer



**Nyow Ning Xin**  
BSc (Hons) Information Technology  
(Computer Networking and Security)

**Company :** Avepoint Singapore

**Position :** IT Senior Business Analyst



**Vinudha A/P Jeya Sangar**  
BSc (Hons) Information Systems  
(Business Analytics)

*Now known as Bachelor of Information Systems (Honours)  
(Data Analytics)*

**Company :** Maybank Shared Services Group

**Position :** Senior Executive, Business  
Data Analysis, GT-Strategic  
Data Management



**Prashanth George A/L Mathew**  
Bachelor of Science (Honours) in  
Information Technology

**Company :** Ricoh Business Services  
Asia Pacific Sdn Bhd

**Position :** Regional Technical Account  
Support Specialist



**Yap Zhi Kai**  
Bachelor of Science (Honours) in  
Information Technology

**Company :** Aiken Digital Sdn Bhd

**Position :** Senior Technical  
Project Manager



**Tan Jia Wen**  
Bachelor of Science (Honours) in  
Information Technology

**Company :** Bolttech Malaysia

**Position :** Fullstack Software  
Engineer



**Yeap Khor Chin**  
Bachelor of Software Engineering (Hons)

**Company :** Woow Moment Limited

**Position :** System Analyst

**SUNWAY**  
UNIVERSITY



**A CLASS ABOVE**

**MALAYSIA'S**



**IN GRADUATE  
EMPLOYABILITY**

For the 3<sup>rd</sup> consecutive year, Sunway University has been recognised as Malaysia's No. 1 in Graduate Employability\*.

We are immensely proud of the accomplishments of our graduates who have gone on to make a huge positive impact to the success of major Malaysian companies and indeed some of the world's leading organisations.

**SUNWAY UNIVERSITY GRADUATES, TRULY A CLASS ABOVE**

\*Talentbank GE Index 2024

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