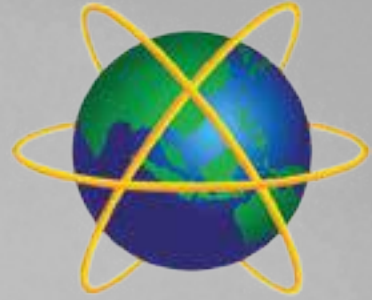ENGINEERING

A·P·U

ASIA PACIFIC UNIVERSITY
OF TECHNOLOGY & INNOVATION

I am
visionary

ENGINEERING

WORLDWIDE RECOGNITION
UNDER THE
WASHINGTON ACCORD

INNOVATIVE
THINKING
CAN CHANGE
YOUR WORLD

5 STAR
EXCELLENT RATING
SETARA

MD™
Premier Digital
Tech Institution

QS WORLD
UNIVERSITY
RANKINGS
2024

QAA GLOBAL
Institution accredited
**Asia Pacific University of
Technology and Innovation**
Valid 04/2024 – 04/2029

QS 1st Malaysian
University
5-Stars Plus

First and Only Malaysian University with QAA UK Accreditation 2024

QAA GLOBAL

Institution accredited
Asia Pacific University of Technology and Innovation
Valid 04/2024 – 04/2029

CERTIFICATE OF ACCREDITATION

This is to certify that

Asia Pacific University of Technology and Innovation

is accredited by the Quality Assurance Agency for Higher Education (QAA)
for the successful completion of the International Quality Review and meeting the
Standards and Guidelines for Quality Assurance in the European Higher Education Area.

Accreditation valid: 30/04/2024 – 29/04/2029

Vicki Stott, Chief Executive, QAA

THE QUALITY ASSURANCE AGENCY FOR HIGHER EDUCATION

APU achieves Global Quality Accreditation from QAA UK

Asia Pacific University of Technology & Innovation (APU), a leading Malaysian University has achieved a significant milestone by securing accreditation from the Quality Assurance Agency for Higher Education (QAA) in the United Kingdom. This accreditation underscores APU's commitment to excellence, rigorous quality assurance processes, and student-centered education.

The Quality Assurance Agency (QAA) carries out Quality Assurance for UK higher education institutions.

- APU underwent a thorough review process conducted by independent reviewers appointed by QAA. This involved almost a year of intense preparation and preparation of documentation.

- A comprehensive physical Audit was held at APU in March 2024. Based on the Audit, APU has been deemed to have achieved Accreditation by the QAA – the FIRST ever Malaysian University to have achieved this.

- The Audit Panel confirmed that APU meets all ten UK and European Quality Assurance standards covering areas such as teaching & learning, student support, research, facilities, resources and governance.

- APU Degrees will now be recognised an equal basis with Degrees from UK universities due to QAA Accreditation of APU as an QAA Accredited Institution.

- APU graduates will benefit from this prestigious recognition of their qualifications in Malaysia, the UK and beyond.

APU's commitment to continuous improvement and adherence to international best practices played a pivotal role in achieving this accreditation. QAA accreditation enhances APU's global reputation and validates its commitment to quality education. APU will continue to uphold the QAA standards and strive for further excellence with pride.

1st
5-Stars Plus
★★★★★+

Malaysian University

1 of 23 in the world

ONLY Malaysian University
to achieve both
QS 5-Stars Plus+ Rating & being
Ranked in QS World Rankings 2024

Facts regarding APU's achievements in the latest QS World University rankings:

- Ranked **TOP 2.2%** in the World
- Ranked **#621-630** in the World
- Ranked **No. 179** in Asia
- Ranked **No.1** for International Students in Malaysia
- Ranked **No.16** in the World for International Students
- Ranked **Top 200** for International Faculty in the World
- Ranked among **Top 13** Universities in Malaysia
- Ranked among **Top 6** Private Universities in Malaysia

(QS World University Ranking 2024)

WORLD UNIVERSITY RANKINGS 2024
IN THE TOP 700 IN THE WORLD

APU EMERGES AS THE FIRST QS 5-STARS PLUS UNIVERSITY IN MALAYSIA

APU is the First Malaysian University to achieve an overall rating of Five Stars Plus in the latest QS Stars Rating awards that were presented at the QS Apple Conference on 1st Nov 2021. Five Stars Plus institution must achieve five stars across all categories in addition to achieving minimum highest benchmark score by QS STARS. APU is amongst 23 universities worldwide to achieve this honour.

RANKED NO.1 FOR INTERNATIONAL STUDENTS IN MALAYSIA AND NO.16 IN THE WORLD

APU is the ONLY Malaysian University to achieve the double distinction of achieving the QS 5-Stars Plus Rating as well as being Ranked in the QS World University Ranking 2024, where APU is ranked in the Top 2.2% in the World. APU is Ranked No.1 for International Students in Malaysia and No. 16 for International Students in the World.

APU IS AWARDED 2024 EMPLOYERS' CHOICE OF UNIVERSITY

Renowned for its 100% employability rate among graduates, APU underlined its strengths by being selected as the 2024 Employers' Choice of University in Talentbank's annual survey of employers. Takentbank also announced that APU graduates were voted Champions of Employers' Top Choice in the fields of Computing & IT, Game Design and Development, Animation, and Finance & Islamic Finance. Additionally, graduates of Actuarial Science, Mechatronic Engineering, Multimedia and Communication & Broadcasting are also employers' preferred options with 6 Star Ratings.

APU IS AWARDED **BEST TECH UNIVERSITY** & **BEST FUTURE READY UNIVERSITY** FOR 2024 - PC.COM AWARDS

The PC.com Awards are prestigious accolades that recognise organisations that demonstrate excellence and leadership in the field of technology and innovation. In the 2024 Awards, Asia Pacific University of Technology & Innovation (APU) shone brightly, winning both the Best Tech University and Best Future Ready University awards, as voted by PC.com readers. This recognition reflects APU's unwavering commitment in offering cutting-edge digital technology programmes & preparing students for the future. APU is a repeat winner, having also won the PC.Com Best Tech University Award in 2023.

APU'S LIST OF FIRSTS:

1st Malaysian University to achieve Five Stars Plus in the latest QS Stars Rating
1st Local Institute awarded Multimedia Super Corridor Status
1st Institute awarded the MSC Research & Development Grant
1st Institute awarded MS ISO 9002 Quality Certification
1st Institute appointed Novell Education Academic Partner
1st Institute appointed Authorised Sun Education Centre
1st Institute appointed Microsoft Training Partner
1st Institute listed in Enterprise 50 Award Programme
1st Institute appointed University Alliance Partner by SAP
1st XR Studio - Mixed & Extended Reality Infrastructure in Asia
1st Integrated Cybersecurity Talent Zone in Malaysia

QS defines rating as "The system evaluates universities across a wide range of important performance indicators as set against pre- established international standards. By covering a broader range of criteria than any world ranking exercise, QS Stars™ shines a light on both the excellence and the diversity of the rated institution".

"The QS Stars university rating system audits and rates over 600 universities globally in a broader range of criteria than any world ranking exercise. Comprehensive audits are also independently carried out as part of the rating exercise. QS Stars™ shines a light on both the excellence and the diversity of the rated institution. Congratulations to Asia Pacific University (APU) for being the first-ever QS 5-Stars Plus rated institution in Malaysia and being 1 amongst 20 in the world."

Leigh Kamolins - Head of Evaluation, QS Intelligence Unit

OUTSTANDING

★ ★ ★ ★ ★ +

QS

Rated for Excellence

Asia Pacific University of Technology & Innovation

The QS Intelligence Unit has, through rigorous and independent data collection and analysis of performance metrics as set out in the QS Stars™ methodology, rated Asia Pacific University of Technology & Innovation as a Five Stars Plus institution.

★ ★ ★ ★ ★
Teaching

★ ★ ★ ★ ★
Internationalisation

★ ★ ★ ★ ★
Facilities

★ ★ ★ ★ ★
Social Responsibility

★ ★ ★ ★ ★
Employability

★ ★ ★ ★ ★
Academic Development

★ ★ ★ ★ ★
Accounting & Finance

★ ★ ★ ★ ★
Inclusiveness

★ ★ ★ ★ ★
Online Learning

QS STARS

The QS Stars™ rating system is operated by the QS Intelligence Unit, the independent compiler of the QS World University Rankings® since 2004. The system evaluates universities across a wide range of important performance indicators as set against pre-established international standards. By covering a broader range of criteria than any world ranking exercise, QS Stars shines a light on both the excellence and the diversity of the rated institution.

Leigh Kamolins, Head of Evaluation

18 Oct 2021

Inspiring

you towards
innovation & ambitions

IT STARTS NOW........... IT STARTS HERE

OUTSTANDING FACULTY AWARD

1 of 22 Premier Digital Tech Institutions

MDEC Premier Digital Tech Institution
PDTI OUTSTANDING AWARD 2022 EDITION
OUTSTANDING FACULTY 2022

School of Computing & Technology | School of Engineering | School of Media, Arts and Design

MDEC: Malaysia Digital Economy Corporation

DEGREE PROGRAMMES

- **Bachelor of Electrical & Electronic Engineering with Honours***

- **Bachelor of Mechatronic Engineering with Honours***

- **Bachelor of Mechanical Engineering with Honours**

- **Bachelor of Computer Engineering with Honours***

- **Bachelor of Petroleum Engineering with Honours***

WORLDWIDE RECOGNITION UNDER THE **WASHINGTON ACCORD**

DEGREE PROGRAMMES ACCREDITED* BOARD OF ENGINEERS MALAYSIA
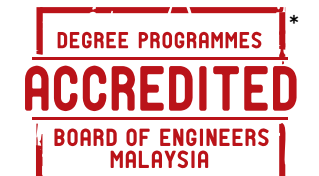
APU – A 5-STAR (EXCELLENT) RATED INSTITUTION

5 STAR EXCELLENT RATING
SETARA
APU amongst the Highest Rated Emerging Universities - 2019

APU has consistently received the highest ratings among emerging Universities through the SETARA Ratings exercise conducted by the Ministry of Higher Education, ever since the SETARA Ratings system was introduced, including having attained 5 STARS in the latest ratings announced in Dec 2020.

The SETARA ratings system employs a rigorous assessment methodology to rate an education institution's three core functions, namely teaching, research and services.

APU IS A PREMIER DIGITAL TECH INSTITUTION - MALAYSIA DIGITAL ECONOMY CORPORATION

MD Premier Digital Tech Institution

APU was among the first institute in Malaysia awarded Premier Digital Tech Institution status by the Malaysia Digital Economy Corporation (MDEC) and Ministry of Higher Education (MOHE). APU is recognised for its commitment to offer top-notch digital technology courses and ensuring our highly-skilled graduates continue to flourish and fill future digital job demands locally and globally.

APU IS AWARDED BEST TECH UNIVERSITY & BEST FUTURE READY UNIVERSITY FOR 2024 - PC.COM AWARDS

PC.com AWARDS 2024 BEST TECH UNIVERSITY Asia Pacific University of Technology & Innovation

PC.com AWARDS 2024 BEST FUTURE READY UNIVERSITY Asia Pacific University of Technology & Innovation

The PC.com Awards are prestigious accolades that recognise organisations that demonstrate excellence and leadership in the field of technology and innovation. In the 2024 Awards, Asia Pacific University of Technology & Innovation (APU) shone brightly, winning both the Best Tech University and Best Future Ready University awards, as voted by PC.com readers. This recognition reflects APU's unwavering commitment in offering cutting-edge digital technology programmes & preparing students for the future. APU is a repeat winner, having also won the PC.Com Best Tech University Award in 2023.

APU - FIRST EVER MALAYSIAN UNIVERSITY WITH QAA UK ACCREDITATION

QAA GLOBAL
Institution accredited
Asia Pacific University of Technology and Innovation
Valid 04/2024 - 04/2029

Experience

APU's iconic campus

Asia Pacific University of Technology & Innovation (APU) is amongst Malaysia's Premier Private Universities, and is where a unique fusion of technology, innovation and creativity works effectively towards preparing professional graduates for significant roles in business and society globally.

An Ultra-modern Campus Built Today for the Needs of Tomorrow

Asia Pacific University of Technology & Innovation (APU)'s Ultra-Modern University Campus in MRANTi - Technology Park Malaysia is designed to be the state-of-the-art teaching, learning and research facility providing a conducive environment for students and staff. TPM is the ideal location for this new and contemporary campus due to its strong positioning as Malaysia's primary hub for leading-edge and high-tech developments in a wide variety of areas. It is also located in one of the most rapidly developing areas in Kuala Lumpur, and is well served and accessible through major highways, LRT and other forms of public transportation.

APU has earned an enviable reputation as an award-winning University through its achievements in winning a host of prestigious awards at national and international levels.

Malaysia's Award Winning University

- A Stylish Blend of Functionality & Accessibility
- A Unique Fusion of Technology, Innovation and Creativity
- Cutting-edge Technologies
- A Wide Variety of Spaces to Learn, Engage & Transform

APU's iconic campus is setting a new benchmark for design excellence among Malaysian Universities, combining an eco-friendly campus with a dynamic blend of technology and innovation to enable professional learning. It is a magnificent teaching & learning space for our students & staff designed by our award-winning architects & consultants.

Ranked No.1 for International Students in Malaysia — QS World University Rankings 2024

MALAYSIA'S AWARD WINNING UNIVERSITY

Engineering Degrees Accredited under WASHINGTON ACCORD (accepted Worldwide)

100% Employability*

MORE THAN 80,000 GRADUATES & ALUMNI

FIRST IN MALAYSIA TO ACHIEVE 5-STARS PLUS IN QS RATINGS

* Latest Graduate Tracer Study by Ministry of Higher Education, Malaysia

100% of our graduates are employed by graduation*; this is not just a number, but a significant symbol of our success and pride in nurturing professionals for global careers.

* Latest Graduate Tracer Study by Ministry of Higher Education, Malaysia.

100 %
Employability*

Industry Ready Graduates

The APU Career Centre connects and engages with over 12,000 Employers to ensure that our graduates are highly employable in both local and international corporations, as it closely supports APU students in both internship and career placement activities.

Work-ready, World-ready

Study with us and we'll equip you to become a world-ready professional, with the knowledge, attributes, skills and expertise that employers look for.

Employers are demanding that graduates not just have qualifications, but also have the experience and ability to contribute to the workplace. To meet these demands, APU develops programmes and partnerships with academic and industry partners, with a heavy focus on applied learning. This helps to ensure that the skills and knowledge taught at APU are up-to-date and in high demand.

Outstanding Support

Regardless of the programme you choose, you will be supported by highly qualifed and enthusiastic professionals. Many enjoy an international reputation for their research and actively engage with leading names in the industry.

RANKED #1

for International Students in Malaysia

#16 in the World

QS World University Rankings 2024

A Truly International Community

Just like the beautiful country in which we are located, APU is a rich blend of traditional and modern styles. We have developed a singular character to embrace those things that set us apart. We pride ourselves on the quality of both our teaching and research as well as having a unique living and learning environment.
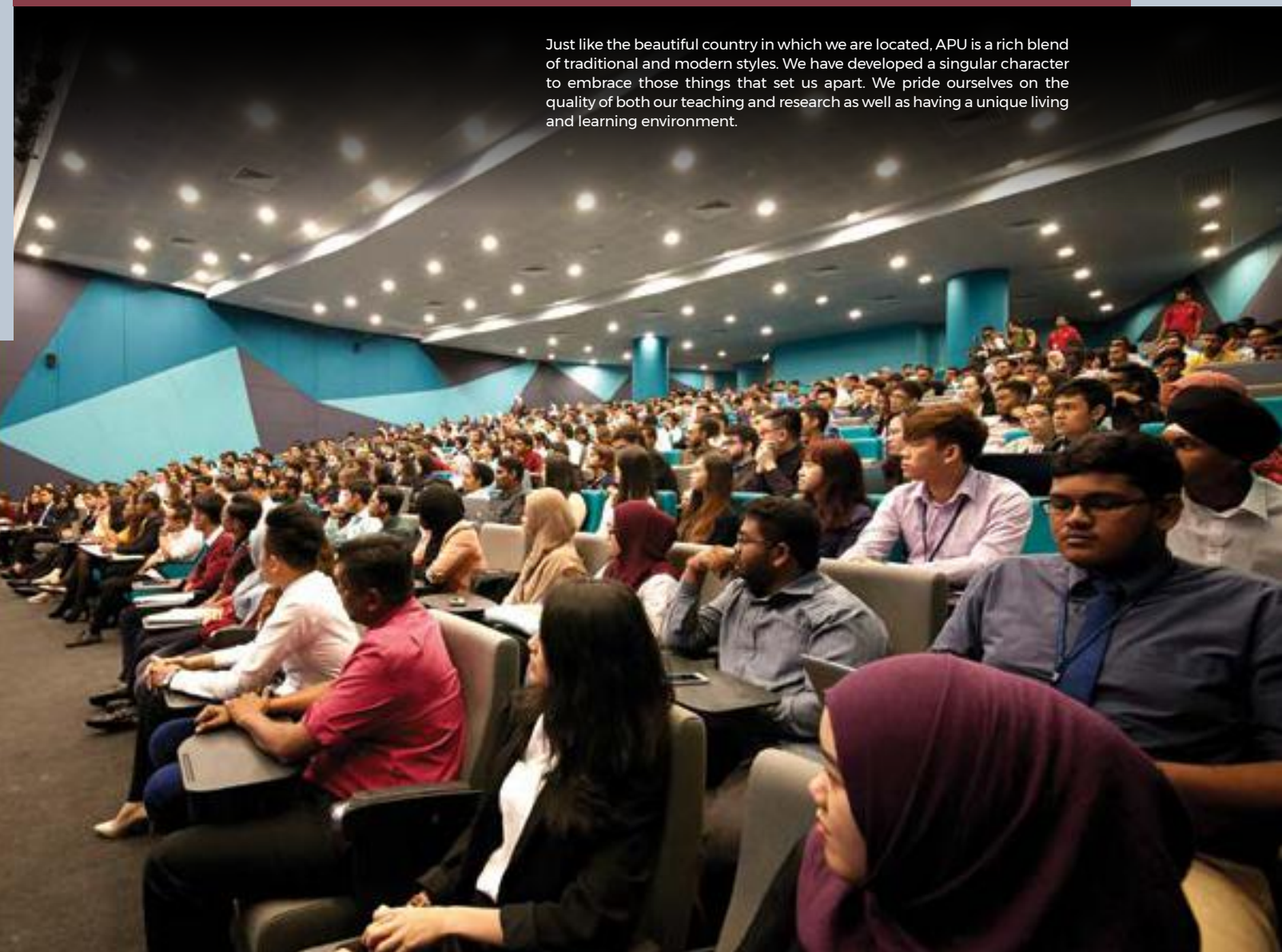
A Hub of Cultural Diversity

With students from over 130 countries, we ensure that you will gain memorable experiences alongside the diversifed and colourful cultural environment. We have students from Asia, Central Asia, Middle East, Africa, Europe, Latin America and Oceania. Our International Students Support Centre helps you with the procedure to apply for your Student Pass before coming here. Upon arrival in Kuala Lumpur, you will be greeted with warmth by our friendly staff, who will pick you up and bring you to our campus.

Student Welcome Team

The Student Welcome Team was established by Asia Pacific University of Technology & Innovation (APU) to improve the arrival experience of international students in Malaysia. "Warm Welcome, Warm Hello, Warm What's up" is the theme of this ASK ME Team.

Student Life @ APU

Being a university student can be one of your most exciting expeditions. Higher education opens up a world of new ideas, intellectual growth, new adventures and the building of lifelong friendships. Here at APU, we support you to take the time to explore not only the educational experiences but also the wide range of social, sporting and cultural activities on campus.

World-class
Facilities @ APU

APU provides access to world-class resources across a wide range of disciplines. This translates into industry-ready skills and a competitive edge for graduates.

Our campus is well-situated in a high-technology environment, and is equipped to enable every student to get the most out of your study experience at APU.

Cutting-Edge Technologies

The Campus blends technology, integration, innovation and creativity under one roof. It provides not just a learning environment, but also a lively community spot for our students to formulate new ideas, gain intellectual growth and discover new adventures. It is not only a university campus, but also the nurturing ground for world-changing global ideas. All spaces are carefully designed to create an unforgettable learning and lifestyle experience that lasts for a lifetime, while enabling professional learning and cultivating global mindsets. APU, as Malaysia's leading technological university, is the incubator for self-starting and innovative APU graduates. Our educational technology environment supports the development of graduates of this calibre, in which well-equipped computing and engineering laboratories with advanced software, hardware and technologies place students at the forefront of technological excellence.

Social Interaction Platforms

Fitness Sweatzone, student lounges, sports facilities and breakout rooms provide spaces for relaxation and socialisation throughout the day. They are carefully designed to create an unforgettable learning and lifestyle experience that lasts for a lifetime, especially for students who are studying away from home.

An Integrated Community

The campus aims to establish a community aspect for the university – where integration is the key. Walkways, classrooms, communal spaces and discussion areas promote connectivity and cultivates exchange of ideas among students from different disciplines and academics, to implement cooperative learning concepts in line with the Industrial Revolution 4.0.

Our Partner in Quality

De Montfort University (DMU), UK

De Montfort University Leicester (DMU) is a dynamic, 21st-century UK university with a global outlook based in the city of Leicester which is a great place to be a student.

Find your new home at DMU

At DMU, our supportive and nurturing community will empower you to realise your dreams. Our courses are carefully designed and taught by expert academics to help you gain the skills needed to enter today's competitive jobs market and succeed in your career.

The university is organised into four faculties; Arts, Design and Humanities, Business and Law, Health and Life Sciences and Computing, Engineering and Media.

Our award-winning careers and employability service, DMU Works provides guaranteed work experience opportunities, including placements, internships and career mentoring.

MAKE THE MOST OF YOU DMUWORKS

Why choose DMU?

- DMU has over 150 years of history in providing higher education to students from around the globe.
- Leicester offer everything students could need and it has been named the fourth most vibrant city in the UK (Top Cities Vibrancy Report, 2022), as well as the best city in the East Midlands region to live and work (Good Growth for Cities Index, 2022).
- DMU has been awarded a second term as a United Nations Academic Impact (UNAI) global hub for Sustainable Development Goals (SDGs), aimed at transforming lives around the world.
- Each year, international students from more than 130 countries choose to study at DMU.

Double your Advantage

APU-DMU **Dual Degree Programme**
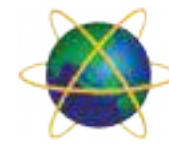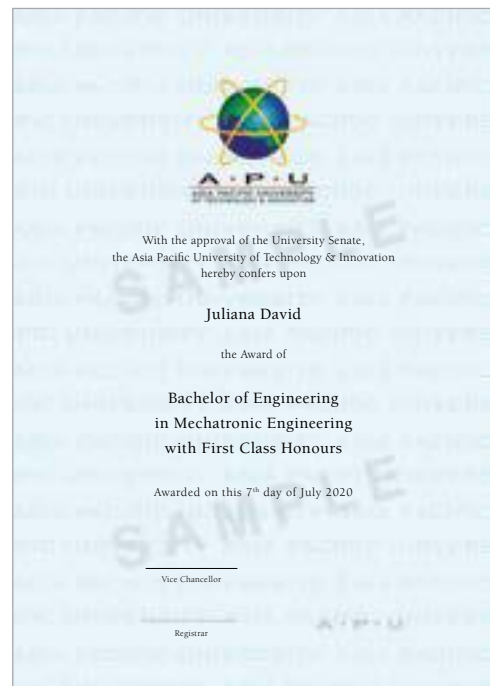
MEng Award by De Montfort University (DMU), UK

DUAL DEGREE

- APU's partnership with DMU enables students to be awarded Dual Awards - separate degree certificates from each institution – and enhances not just teaching and learning experiences, but also career prospects.

- Upon graduation, students will receive 2 Degree Certificates & Transcripts: 1 from APU, Malaysia and 1 from DMU, UK

- DMU Degree Certificate will be an MEng Award

- Both degrees are recognised locally & internationally

- The APU-DMU Dual Degree Programmes are offered under an approved collaboration in accordance with the QAA UK Quality Code for Higher Education for the Assurance of Academic Quality and Standards in Higher Education as published by the United Kingdom Quality Assurance Agency (QAA).

WORLDWIDE RECOGNITION

ENGINEERING DEGREES ACCREDITED UNDER THE WASHINGTON ACCORD

WORLDWIDE RECOGNITION

UNDER THE

WASHINGTON ACCORD

The School of Engineering at APU is one of our fastest growing schools and is gaining popularity among school leavers. This is because all the five engineering programmes offered by the School are current in terms of technology and are market driven, and thus have great employment opportunities.

The vision of the School is to be a leading provider of Engineering and Technology based education with innovative approaches to enhancing lifelong career opportunities. This is emphasised by our mission to provide engineering education based on a theoretical, experimental, and ethical foundation and enhanced by opportunities for participation in research, internships and interdisciplinary study.

For all degrees within the School, APU links with industry helps provide internship training placements for students. Internships are compulsory for all students as per the requirement of the Board of Engineers Malaysia.

APU Engineering Degrees are fully accredited by the Board of Engineers Malaysia (BEM) which is a signatory to the Washington Accord.

- **Bachelor of Electrical & Electronic Engineering with Honours**
- **Bachelor of Mechatronic Engineering with Honours**
- **Bachelor of Computer Engineering with Honours**
- **Bachelor of Petroleum Engineering with Honours**

INTERNATIONAL RECOGNITION

ENGINEERING DEGREES ACCREDITED UNDER THE WASHINGTON ACCORD

APU Engineering Degrees are fully accredited by the Board of Engineers Malaysia (BEM) which is a signatory to the Washington Accord.

APU Engineering Degrees are Accredited Professionally by the Board of Engineers Malaysia (BEM) and are therefore recognised internationally under the Washington Accord. Recognition under the Washington Accord allows for APU engineering programmes to be recognised by countries such as Australia, Canada, China, Chinese Taipei, Costa Rica, Hong Kong China, India, Indonesia, Ireland, Japan, Korea, Malaysia, Mexico, New Zealand, Pakistan, Peru, Russia, Singapore, Sri Lanka, South Africa, Turkey, the United Kingdom and the United States who are all signatories of the accord.

This allows APU graduates to be recognised in these countries for career opportunities towards achieving Professional/Chartered Engineer status or for further education progression. Furthermore, many countries which are not yet signatories to the Washington Accord also use this as a benchmark in recognising Engineering Degrees.

This accreditation ensures that APU Engineering Graduates will have the following benefits in countries who are signatories of the Washington Accord:

- Opportunities to register as a Graduate Engineer with Board of Engineers Malaysia (BEM) or the relevant professional bodies in other countries who are signatories under the Washington Accord.
- Pathways to becoming a Professional or Chartered Engineer.
- Assurance that graduates are considered as having met international academic standards for engineering practice.

With this achievement, recognition under the Washington Accord enables APU Engineering graduates to work in any country in the world who are also a signatory to the Accord, without the need to re-qualify. The recognition is of utmost importance to the engineering education in Malaysia as graduates from accredited engineering degree programmes from Washington Accord signatory countries are considered as meeting the academic standard for practices in engineering at the international level.

Please refer to **https://www.ieagreements.org/accords/washington/**

The above benefits are applicable in the following countries, which are signatory to the Washington Accord:
"Signatories have full rights of participation in the Accord; qualifications accredited or recognised by other signatories are recognised by each signatory as being substantially equivalent to accredited or recognised qualifications within its own jurisdiction"
https://www.ieagreements.org/accords/washington/signatories/
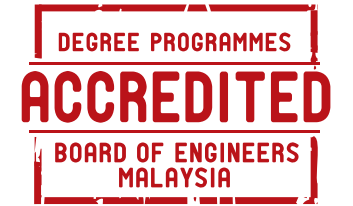
- **Australia** - Engineers Australia (1989)
- **Canada** - Engineers Canada (1989)
- **China** - China Association for Science and Technology (2016)
- **Chinese Taipei** - Institute of Engineering Education Taiwan (2007)
- **Costa Rica** - Colegio Federado de Ingenieros y de Arquitectos de Costa Rica (CFIA) (2020)
- **Hong Kong China** - The Hong Kong Institution of Engineers (1995)
- **India** - National Board of Accreditation (2014) (Applies only to programmes accredited by NBA offered by education providers accepted by NBA institutions.)
- **Indonesia** - Indonesian Accreditation Board for Engineering Education (IABEE) (2019)

- **Ireland** - Engineers Ireland (1989)
- **Japan** - Japan Accreditation Board for Engineering Education (2005)
- **Korea** - Accreditation Board for Engineering Education of Korea (2007)
- **Malaysia** - Board of Engineers Malaysia (2009)
- **Mexico** - Consejo de Acreditación de la Enseñanza de la Ingeniería (CACEI) (2016)
- **New Zealand** - Institution of Professional Engineers NZ (1989)
- **Pakistan** - Pakistan Engineering Council (2017)
- **Peru** - Instituto de Calidad Y Acreditacion de Programas de Computacion, Ingenieria Y Technologia (ICACIT) (2018)

- **Russia** - Association for Engineering Education of Russia (2012)
- **Singapore** - Institution of Engineers Singapore (2006)
- **South Africa** - Engineering Council of South Africa (1999)
- **Sri Lanka** - Institution of Engineers Sri Lanka (2014)
- **Turkey** - MUDEK (2011)
- **United Kingdom** - Engineering Council UK (1989)
- **United States** - Accreditation Board for Engineering and Technology (1989)
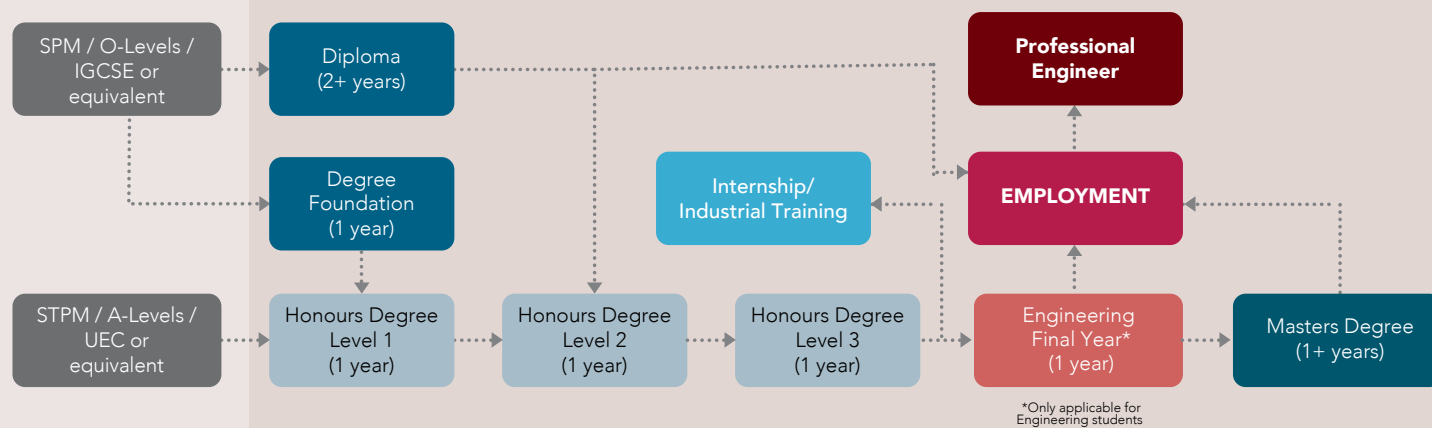
"Organisations holding provisional status have been identified as having qualification accreditation or recognition procedures that are potentially suitable for the purposes of the Accord; those organisations are further developing those procedures with the goal of achieving signatory status in due course; qualifications accredited or recognised by organisations holding provisional status are not recognised by the signatories"
https://www.ieagreements.org/accords/washington/signatories/

- **Bangladesh** - Represented by The Institution of Engineers Bangladesh (IEB)
- **Chile** - Represented by Agencia Acreditadora Colegio De Ingenieros De Chile S A (ACREDITA CI)
- **Myanmar** - Represented by Myanmar Engineering Council (MEngC)
- **Nigeria** - Represented by Council for the Regulation of Engineering in Nigeria (COREN)

- **Philippines** - Represented by Philippine Technological Council (PTC)
- **Thailand** - Represented by Council of Engineers Thailand (COET)
- **Saudi Arabia** - Represented by Education and Training Evaluation Commission (ETEC)

DEGREE PROGRAMMES
ACCREDITED
BOARD OF ENGINEERS MALAYSIA

Pathways
&Admission
Requirements

YOUR STUDY PROGRESSION

SPM / O-Levels / IGCSE or equivalent	Diploma (2+ years)			**Professional Engineer**	
	Degree Foundation (1 year)		Internship/ Industrial Training	**EMPLOYMENT**	
STPM / A-Levels / UEC or equivalent	Honours Degree Level 1 (1 year)	Honours Degree Level 2 (1 year)	Honours Degree Level 3 (1 year)	Engineering Final Year* (1 year)	Masters Degree (1+ years)

*Only applicable for Engineering students

PATHWAYS & ADMISSION REQUIREMENTS

BACHELORS (HONS) ENGINEERING DEGREE PROGRAMMES

General Requirements	
DIRECT ENTRY TO LEVEL 1 OF THE DEGREE:	
STPM	- 2 Passes in STPM with a minimum Grade C (GP 2.0) in Mathematics and Physics (or Chemistry), and a Credit in Mathematics and Physics (or Chemistry) at SPM Level or its equivalent.
A-LEVEL	- 2 Passes (Grade A-D) in A-Level including Mathematics and Physics (or Chemistry).
UEC	- 5 Grade B's in UEC, including Mathematics and Physics (or Chemistry).
MATRICULATION / FOUNDATION	- Passed the relevant Foundation programme (minimum CGPA of 2.0) with a Credit in Mathematics and Physics (or Chemistry) at SPM/O-Level/IGCSE or equivalent.
ENTRY TO LEVEL 2 OF THE DEGREE:	
DIPLOMA	- Successful completion of the APU/APIIT Engineering Diploma and fulfilment of requirements for Credit Transfer, subject to the approval of the APU Academic Board OR - Successful completion of a Diploma in Engineering with other recognised Institutions and fulfilment of requirements for Credit Transfer, subject to the approval of the APU Academic Board.

Any qualification that APU accepts as equivalent to the above.

ENGLISH REQUIREMENTS (only applicable to International Students)

Programmes	Requirements
Foundation	· IELTS : 4.0 · TOEFL IBT : 30-31 · Pearson (PTE) : 36 · MUET : Band 3
Diploma and Bachelor (Hons) Engineering Degree Programmes	· IELTS : 5.0 · TOEFL IBT : 40 · Pearson (PTE) : 47 · MUET : Band 3.5

Please note that under Ministry of Higher Education regulations, only students who have achieved the minimum requirement in the English Language proficiency assessment as indicated above will be allowed to continue their studies in the main study programme. Students who do not have the required English Language achievement may apply for a student visa on conditional basis and are allowed to enrol in an English Language Certification programme at APU upon arrival in Malaysia and, subsequently, appear for the IELTS/TOEFL/PTE/MUET assessment.

Students who are unable to obtain the required level of English Competency during the maximum 12 months' period, will not be allowed to pursue their studies in the main programme and will have to return to their home country.

Students from English speaking countries and those with qualifications taught in English (IGCSE, A-Levels, IB, American High School Diploma etc) are exempted from English requirements. Applications for exemption must be accompanied by supporting documents.

Note: The above entry requirements may differ for specific programmes based on the latest programme standards published by Malaysian Qualifications Agency (MQA).

Foundation Programme – Flexibility of Choice

MODULES YOU STUDY

The modules studied help develop your study skills, introduce you to what you can expect on your degree and also allow you to discover what you can study depending on whether you choose a degree in Accounting, Banking, Finance, Actuarial Studies, Psychology, Business & Management, Computing & Technology, Engineering, Industrial Design, Animation and Visual Effects.

ENRICHING EXPERIENCES - MORE THAN JUST A FOUNDATION

The APU Foundation Programme lays the pathway towards professional tertiary education. It is a vital transformation point for students' soft skills, general knowledge and preparatory subject fundamentals acquired at the Foundation lead to excellence in a student's education performance, as well as career readiness as they move on as global professionals eventually. This is achieved through 4 key areas:

- Leadership & Teamwork
- Problem-Solving Skills
- Social Skills & Responsibilities
- Practical Skills

The unique support system at APU Foundation Programme consists of helpful academic mentors who are committed in ensuring academic achievements, providing pastoral care, advising, mentoring, motivating students' potential and performance, to ensure that they undergo a smooth transition from secondary education to tertiary learning.

ADMISSION REQUIREMENTS

- 5 Credits in at least 5 subjects at SPM level with a minimum of a pass in Bahasa Malaysia and Sejarah (History);
- 5 Credits (Grade C & above) in at least 5 subjects at IGCSE/O-Levels;
- 3 Credits (Grade B & above) in at least 3 subjects in UEC.
- A qualification that APU accepts as equivalent to the above.
- * Some Degree Programmes may require a Credit in Mathematics at SPM/IGCSE/O-Level or equivalent.
- * Engineering Degree Programmes require a Credit in Mathematics and Physics or Chemistry at SPM/IGCSE/O-Level or equivalent.
- * Foundation in Computing (ODL) - 100% Online requires a Credit Pass in Mathematics

SEMESTER 1	COMMON SEMESTER 1			
	· English for Academic Purposes	· Communication Skills	· Personal Development & Study Methods	· Essentials of Web Applications · Mathematics

ROUTES ▶	BUSINESS, FINANCE & PSYCHOLOGY	COMPUTING & TECHNOLOGY	ENGINEERING	ARCHITECTURE & DESIGN
SEMESTER 2	· Introduction to Business · Fundamentals of Finance · Global Business Trends · Public Speaking in English	· Introduction to Business · Introduction to Computer Architecture & Networking · Introduction to Visual & Interactive Programming · Public Speaking in English	· Mechanics for Engineers · Engineering Mathematics · Introduction to Visual & Interactive Programming · Public Speaking in English	· Fundamentals of Drawing · Life Drawing · Design Studies · Public Speaking in English · Major Project 1
SEMESTER 3	· Academic Research Skills · Economics for Business · Perspectives in Technology / Further Mathematics** · Co-Curricular *Choose **one** of the following modules:* · Principles of Accounts · Discovering Media in the Digital Age · Psychology & Behavioral Science	· Academic Research Skills · Further Mathematics · Introduction to Multimedia Applications · Co-Curricular *Choose **one** of the following modules:* · Perspectives in Technology · Discovering Media in the Digital Age · Psychology & Behavioral Science	· Academic Research Skills · Science for Engineers · Perspectives in Technology · Design Thinking – Fraunhofer – IEM · Co-Curricular	· Academic Research Skills · Introduction to Digital Photography · Major Project 2 · Co-Curricular *Choose **one** of the following modules:* · History of Design and Media · Introduction to Architecture and Built Environment

You may then proceed to Level 1 of a Degree of your choice in the following pathways

PRIMARY PATHWAYS ▶	- **Business, Management & Tourism** - **Accounting, Finance, Banking & Actuarial Studies** - **Media, Communication & Psychology**	- **Computing & Technology** - **Multimedia & Games Development**	- **Engineering**	- **Industrial Design, Visual Effects, Animation & Digital Advertising** - **Architecture**
ALTERNATIVE PATHWAYS ▶ Students may alternatively choose the following:	- Computing & Technology - Multimedia & Games Development - Industrial Design, Visual Effects, Animation & Digital Advertising - International Relations - Architecture	- Business, Management & Tourism - Accounting, Finance, Banking & Actuarial Studies - Industrial Design, Visual Effects, Animation & Digital Advertising - International Relations - Media, Communication & Psychology - Architecture	- Computing & Technology - Multimedia & Games Development - Accounting, Finance, Banking & Actuarial Studies - Business, Management & Tourism - Industrial Design, Visual Effects, Animation & Digital Advertising - International Relations - Media, Communication & Psychology - Architecture	- Computing & Technology - Multimedia & Games Development - Accounting, Finance, Banking & Actuarial Studies - Business, Management & Tourism - International Relations - Media, Communication & Psychology

YOUR FOUNDATION PATHWAY TO A DEGREE OF YOUR CHOICE
(Please refer to individual course brochure for details and admission requirements.)

CREDIT / GRADE C in SPM / O-Level / IGCSE is required in:

✏️ **Mathematics**

Leading from APU Foundation to your Choice of Degree Studies; please note that a Credit Pass in Mathematics at SPM / O-Level / IGCSE is required for the following programmes:

Computing & Technology
- Bachelor of Science (Honours) in Information Technology
- Bachelor of Science (Honours) in Information Technology with a specialism in
  - Information System Security
  - Cloud Engineering
  - Internet of Things (IoT)
  - Digital Transformation
  - Financial Technology (FinTech)
  - Business Information Systems
  - Sustainable Computing
- Bachelor of Science (Honours) in Computer Science*
- Bachelor of Science (Honours) in Computer Science with a specialism in
  - Data Analytics*
  - Digital Forensics*
- Bachelor of Science (Honours) in Computer Science (Cyber Security)*
- Bachelor of Science (Hons) in Software Engineering*
- Bachelor of Computer Science (Hons) (Artificial Intelligence)*

Accounting, Banking, Finance & Actuarial
- Bachelor of Accounting and Finance (Honours)
- Bachelor of Accounting and Finance (Honours) with a specialism in
  - Forensic Accounting
  - Forex and Investments
  - Accounting Technology
- Bachelor in Banking and Finance (Hons)
- Bachelor in Banking and Finance (Hons) with a specialism in
  - Investment Analytics
  - Financial Technology
- Bachelor of Science (Honours) in Actuarial Studies
- Bachelor of Science (Honours) in Actuarial Studies with a specialism in
  - Data Analytics
  - Financial Technology

Multimedia & Games Development
- Bachelor of Science (Hons) in Multimedia Technology
- Bachelor of Science (Hons) in Multimedia Technology with a specialism in VR/AR
- Bachelor of Science (Honours) in Computer Games Development

} A Pass in Mathematics at SPM / O-Level / IGCSE is required for these programmes.
(Strong Mathematics would be an added advantage)

CREDIT / GRADE C in SPM / O-Level / IGCSE is required in:

✏️ **Mathematics**

🔬 **Physics OR Chemistry OR Technical Science**

Leading from APU Foundation to your Choice of Degree Studies; please note that a Credit Pass in Mathematics and Physics OR Chemistry at SPM / O-Level / IGCSE is required for the following programmes:

Engineering
- Bachelor of Electrical and Electronic Engineering with Honours
- Bachelor of Mechatronic Engineering with Honours
- Bachelor of Mechanical Engineering with Honours
- Bachelor of Computer Engineering with Honours
- Bachelor of Petroleum Engineering with Honours

CREDIT / GRADE C in SPM / O-Level / IGCSE is required in:

✏️ **Mathematics**

🔬 **Science OR Physics OR Chemistry OR Biology**

Leading from APU Foundation to your Choice of Degree Studies; please note that a Credit Pass in Mathematics and Science OR Physics OR Chemistry OR Biology and a Pass in English at SPM / O-Level / IGCSE is required for the following programme:

Psychology
- Bachelor of Science (Honours) in Psychology

Leading from APU Foundation to your Choice of Degree Studies:

Business, Management, Marketing, Digital Marketing & Tourism
- Bachelor of Arts (Honours) in Business Management
- Bachelor of Arts (Honours) in Business Management with a specialism in
  - E-Business
  - Digital Leadership
- BA (Hons) Human Resource Management
- Bachelor of Arts (Honours) in International Business Management
- Bachelor of Arts (Honours) in Marketing Management
- Bachelor of Arts (Honours) in Marketing Management with a specialism in
  - Digital Marketing
- Bachelor of Arts (Honours) in Tourism Management
- Bachelor of Arts (Honours) in Tourism Management with a specialism in
  - Hospitality

Media and International Relations
- Bachelor of Arts (Honours) in Media and Communication Studies
- Bachelor of Arts (Honours) in International Relations

Industrial Design, Animation & Visual Effects
- Bachelor of Arts (Honours) in Industrial Design
- Bachelor of Arts (Honours) in Visual Effects
- Bachelor of Arts (Honours) in Animation
- Bachelor of Arts (Honours) in Digital Advertising

} **PORTFOLIO REQUIRED**

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* Students who choose to progress to Computer Science, Software Engineering, Data Analytics, Cyber Security, Digital Forensics and Artificial Intelligence programmes will be required to undertake Foundation Pathways from the **Computing & Technology** route or **Engineering** route if the student does not have a credit in Additional Mathematics at SPM / O-Level / IGCSE or equivalent.

Students who have completed Foundation from other routes apart from the above are required to do a Pre-Requisite module in Further Mathematics or equivalent in the first semester of the Degree Programme, provided they also still have Credit in Maths and Science or ICT subject at SPM / O-Level / IGCSE or equivalent.

** Further Mathematics module is Compulsory for students who choose to progress to Bachelor of Science (Honours) in Actuarial Studies.

Diploma Programmes

Our Diploma Programmes are designed to prepare those with SPM, O-Levels, IGCSE or similar qualifications with academic aspect as well as the vocational aspects of various areas of studies. The programmes are designed to:

- Prepare students for careers in the respective environment
- Provide students with academic and professional skills to develop solutions requiring a holistic outlook in various areas of studies
- Provide students with critical, independent and cooperative learning skills so as to facilitate their response to continuous future international change
- Develop intellectual skills, communications ability and team working capability
- Provide students with opportunities for progression into the Degree Programmes of their choice*

* Pathways after Diploma Programme vary accordingly.

OUR DIPLOMA PROGRAMME:

- **Diploma in Mechatronic Engineering**

PATHWAYS AFTER DIPLOMA TO ENGINEERING DEGREES

Upon Successful completion of the APU Engineering Diploma and fulfilment of requirements for Credit Transfer, subject to the approval of the APU Academic Board or Successful completion of a Diploma in Engineering with other recognised Institutions and fulfilment of requirements for Credit Transfer, subject to the approval of the APU Academic Board, you will be eligible to progress into Year 2 of any of the following degree programmes offered at APU.
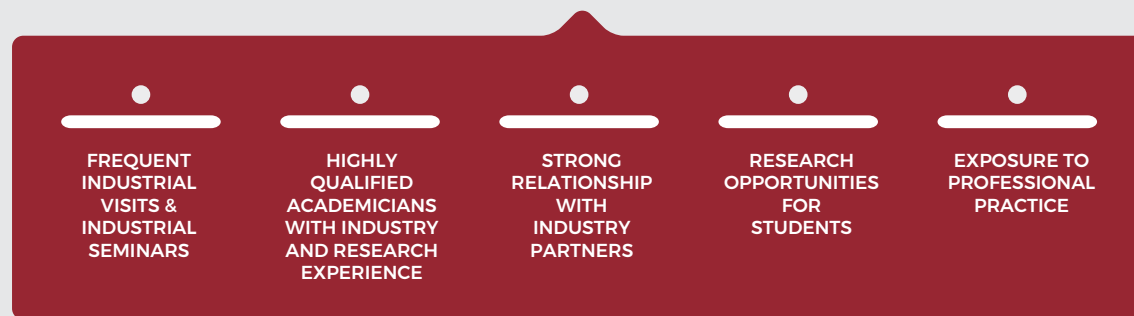
Diploma in Mechatronic Engineering

- Bachelor of Electrical & Electronic Engineering with Honours
- Bachelor of Mechatronic Engineering with Honours
- Bachelor of Mechanical Engineering with Honours
- Bachelor of Computer Engineering with Honours
- Bachelor of Petroleum Engineering with Honours

* For the full listing of our Diploma Programmes, please refer to the Pre-University programme brochure.

Engineering @APU

| FREQUENT INDUSTRIAL VISITS & INDUSTRIAL SEMINARS | HIGHLY QUALIFIED ACADEMICIANS WITH INDUSTRY AND RESEARCH EXPERIENCE | STRONG RELATIONSHIP WITH INDUSTRY PARTNERS | RESEARCH OPPORTUNITIES FOR STUDENTS | EXPOSURE TO PROFESSIONAL PRACTICE |

THE AIMS OF THE APU ENGINEERING PROGRAMMES ARE TO OFFER:

- A broad education in the fundamentals of engineering principles and professional practices that form a strong flexible base which enables graduates to fill a variety of responsible engineering positions

- Specialised development in one area of concentration that will enable graduates to successfully perform at entry-level engineering positions. Some graduates will prefer and be capable of continuing their education in a graduate school

- A stimulating and accessible course of study necessary to understand the impact of engineering solutions in a global and social context, analysis and contemporary engineering issues which the students can develop and apply in their near future

- An opportunity for students with different abilities and different educational experiences to benefit intellectually and vocationally from their education in engineering courses

- Graduates who are able to demonstrate intelligence, ingenuity, inventiveness and independence in all areas of endeavour

- An intellectually demanding and stimulating programme of study and develop a life-long commitment to learning that develops graduates who are imaginative and innovative and who show initiative and creativity in their work

APU Engineering Degrees are accredited by the **Board of Engineers Malaysia (BEM)**.

THE FIVE "I"s MODEL™
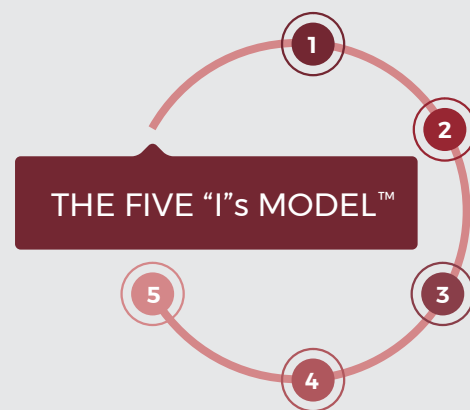
1: INNOVATION
through the design of curriculum, the module content and the learning approaches

2: INTEGRATION
through developing your capabilities to interrelate knowledge and to work in multidisciplinary teams

3: INFORMATION
through developing your knowledge and also your abilities to communicate effectively and persuasively

4: INTERACTIVITY
through the use of group work to develop your teamwork skills and through the use of technology to achieve interactivity of devices and people

5: IMAGINATION
in relation to new products, ideas, applications and solutions

Engineering Programmes

Bachelor of Electrical & Electronic Engineering with Honours

An Electrical or Electronic Engineer maybe responsible for research, design, development, manufacturing and management of complex hardware and software systems and reliable, cost effective devices, many involving the use of new information and computer intensive technologies. These include:

- Integrated electronic systems
- Renewable energy systems
- Generation, transmission and distribution of electrical power
- Instrumentation in electrical and electronic systems
- Manufacturing
- Microelectronics
- Photoelectronics

Bachelor of Mechatronic Engineering with Honours

Mechatronic Engineering is concerned with the creation, design and building of intelligent machines. This new breed of engineer has to master skills in mechanical, electronic and computer engineering and work in a hybrid manner, meeting an ever-increasing need in industry where complexity of projects is rising and resources are limited. The main areas of activity are:

- Fundamental design and build - ways of embedding intelligence and interfacing to the real world
- Process control - plant condition monitoring and control
- Advance robotics and intelligent Machines
- Image Processing and collision avoidance
- Industrial system such as CIM system, CAD/CAM system
- Design and develop a Mechatronics system

Bachelor of Mechanical Engineering with Honours

Mechanical Engineer plays a vital role in various industries by applying their expertise in designing, analysing, and maintaining mechanical systems and devices. This profession is at the heart of innovation, as mechanical engineers contribute to the development of cutting-edge technologies and the improvement of existing systems. Here's a brief overview of the role of a Mechanical Engineer:

- Automobile Design and Development
- Analysis and Testing of Machines
- Thermo fluids Problem Solving
- Prototyping and Manufacturing
- Project Management
- Research and Development
- Climate Control System Developer
- Regulatory Compliance
- Production and quality control
- Aircraft and Spacecraft Design Specialist

Bachelor of Petroleum Engineering with Honours

Petroleum engineers travel to where petroleum reservoirs are known to exist. They define and develop the reservoirs, and produce oil and gas with maximum profitable recovery. Petroleum engineering allows one to specialise in several different oil & gas specialties, each with its own unique challenges and rewards. The careers and job activity areas are as a:

- Drilling engineer, working with geologists and contractors in designing and supervising drilling operations.
- Production engineer, developing processes and equipment to optimise oil and gas production.
- Reservoir engineer helps determine ideal recovery processes, estimate the number of wells that can be economically drilled, and simulate future performance using sophisticated computer models.
- Manager, an entrepreneur, economist, or environmental/safety specialist.

Bachelor of Computer Engineering with Honours

Computer engineering has emerged as a driving force addressing numerous global demands like smart grids, cognitive buildings, energy management and the likes. Operating platforms for more and more applications have been migrating to the cloud in recent days. Bridging the gap between hardware and software, are Computer Engineers, advancing computer technology towards transforming more and more of these cyber dreams into realities. Some of the areas covered in this major are:

- Digital Logic Design
- Computer Networks
- Embedded and Desktop Operating Systems
- Microcontroller Selection and Programming
- Signal Processing

PROGRAMME EDUCATIONAL OBJECTIVES

PEO	ELECTRICAL AND ELECTRONIC ENGINEERING (EEE)	MECHATRONIC ENGINEERING (ME)	MECHANICAL ENGINEERING (ME)	COMPUTER ENGINEERING (CE)	PETROLEUM ENGINEERING (PE)
PEO1	Be a practicing engineer contributing to the development of Electrical or Electronic Engineering while demonstrating professionalism.	Be a practicing engineer contributing to the development of Mechatronic Engineering while demonstrating professionalism.	Be a practicing engineer contributing to the development of Mechanical Engineering while demonstrating professionalism.	Be a practicing engineer contributing to the development of Computer or Electronic Engineering while demonstrating professionalism.	Be a practicing engineer contributing to the development of Petroleum Engineering while demonstrating professionalism.
PEO2	Pursue engineering innovation via career advancement opportunities and/or advanced studies in Electrical or Electronic Engineering.	Pursue engineering innovation via career advancement opportunities and/or advanced studies in Mechatronic Engineering.	Pursue engineering innovation via career advancement opportunities and/or advanced studies in Mechanical Engineering.	Pursue engineering innovation via career advancement opportunities and/or advanced studies in Computer or Electronic Engineering.	Pursue engineering innovation via career advancement opportunities and/or advanced studies in Petroleum Engineering.

PROGRAMME LEARNING OUTCOMES

The students, upon completion of their study, should attain the following outcomes:

PLO1 - Ability to gain and apply principles of Mathematics, Science and Engineering to the solutions of complex engineering problems.

PLO2 - Ability to undertake complex engineering problem analysis and apply engineering principles to solve them.

PLO3 - Ability to design innovative solutions for complex engineering problems.

PLO4 - Ability to investigate complex engineering problems using research techniques.

PLO5 - Ability to select and use suitable tools and techniques for complex engineering problems.

PLO6 - Ability to engage in professional engineering practice for safety, health, social, cultural and legal responsibilities in developing solutions for complex engineering problems.

PLO7 - Ability to comprehend and demonstrate good practices of engineering in sustainable development and environmental considerations for the solutions of complex engineering problems.

PLO8 - Ability to execute the responsibilities of an Engineer professionally and ethically.

PLO9 - Ability to function effectively as a team leader or a member in a team within multi-disciplinary settings.

PLO10 - Ability to communicate effectively and professionally on complex engineering activities.

PLO11 - Ability to demonstrate entrepreneurship skills, engineering project management and economic decision making in multidisciplinary environments.

PLO12 - Ability to recognise the need for, and be able to engage in independent and life-long learning towards continuous professional development.

Collaborative Industrial Partners

The School of Engineering at APU is very active in pursuing collaborative partnership with industries with an aim to expose students to professional engineering practices as early as possible in their studies and to provide students opportunities to solve real-world engineering problems as a form of grooming for engineering careers upon graduation. The School of Engineering has been collaborating with industries on two fronts, i.e. to work with professional and industrial institutions, and with multinational corporations and small & medium enterprises (SMEs).

On collaboration with professional institutions, the School of Engineering collaborate closely with the Institution of Engineers Malaysia (IEM). Since then, IEM has been very supportive on all activities organised by the IEM-APU Student Section (IASS) via funding and provision of expertise on technical talks, seminars and workshops. All engineering students are also highly encouraged to participate in IEM activities as Student Member of the institute. The strong ties with IEM has provided students an early appreciation of the roles of engineers and the challenges ahead. For 4 consecutive years, our Final Year students were awarded the IEM Gold Medal Award in which their excellence and outstanding performance were highly recognised by IEM and the members of the industry.

The School of Engineering has also established a MOU with Malaysia Automation Technology Association (MATA) with an aim to expose students to automation technologies via internships, workshops, technical talks and opportunities to work on final-year projects at member companies of MATA. The partnership with MATA has been going from strength-to-strength since 2014, with the successful launch of Automation Technology Day both in 2015 and 2016. The event has provided students great opportunities to seek employment and internship with some of the MATA member companies such as Schneider Electric, Siemens, Festo, Omron, among others. In addition, students also benefitted from the technical talks on Industrial 4.0, Internet of Things (IoT) and workshops on PLC & Pneumatics etc.

The School of Engineering also champions industrial collaboration with companies, be it multinational corporations or SMEs. The companies typically provide final-year project (FYP) titles for qualified 4th Year students to work on. A number of projects have been initiated and completed successfully with companies such as Top Glove, ABB, Daikin R&D, Mawea Industries, ERL Maintenance Support, Signal Transmission, among others. In addition, many such projects resulted from the proactive efforts of the lecturers in establishing Memorandum of Agreements (MOAs) with companies. All these have resulted in a win-win situation whereby companies benefit from the outcome of the research and development efforts while students are able to solve real-work complex engineering problems by leveraging on resources and expertise from the industries.

RescueAI, the AI-powered drone that's taking disaster management to the next level, took home the highest invention technical award at WICO 2023 and advanced to the finals (business plan competition) of the DB-SNUbiz Global Startup Challenge 2023.

Students from Asia Pacific University of Technology & Innovation's (APU's) School of Engineering (SoE) and Center for Research and Development of IoT (CREDIT) were awarded 11 awards/medals in three prestigious research and innovation competitions in 2023.

Asia Pacific University of Technology & Innovation (APU) congratulates Mr. Chong Wei Lun on receiving the IEM Gold Medal Award at the 64th IEM Annual Dinner.

Embracing the wave of
# Industry Revolution
4.0

FUTURE-PROOFING THE WORKFORCE OF THE FUTURE

New waves of technological disruptions and the emergence of advanced technologies have resulted in the Fourth Industrial Revolution (IR4.0), where Robotics, Artificial Intelligence (AI), Machine Learning, Virtual Reality (VR), Cloud Engineering, Internet of Things (IoT), Data Science are going to transform the way businesses operate – routine, mundane jobs will be replaced and there is a growing need to develop "smarter" talents that can ride along the wave of digital transformation.

At APU, we developed our own IR 4.0 strategy to prepare our students to join the workforce of the future. We nurture the world's future innovators and uphold our Vision as a University of Technology and Innovation.
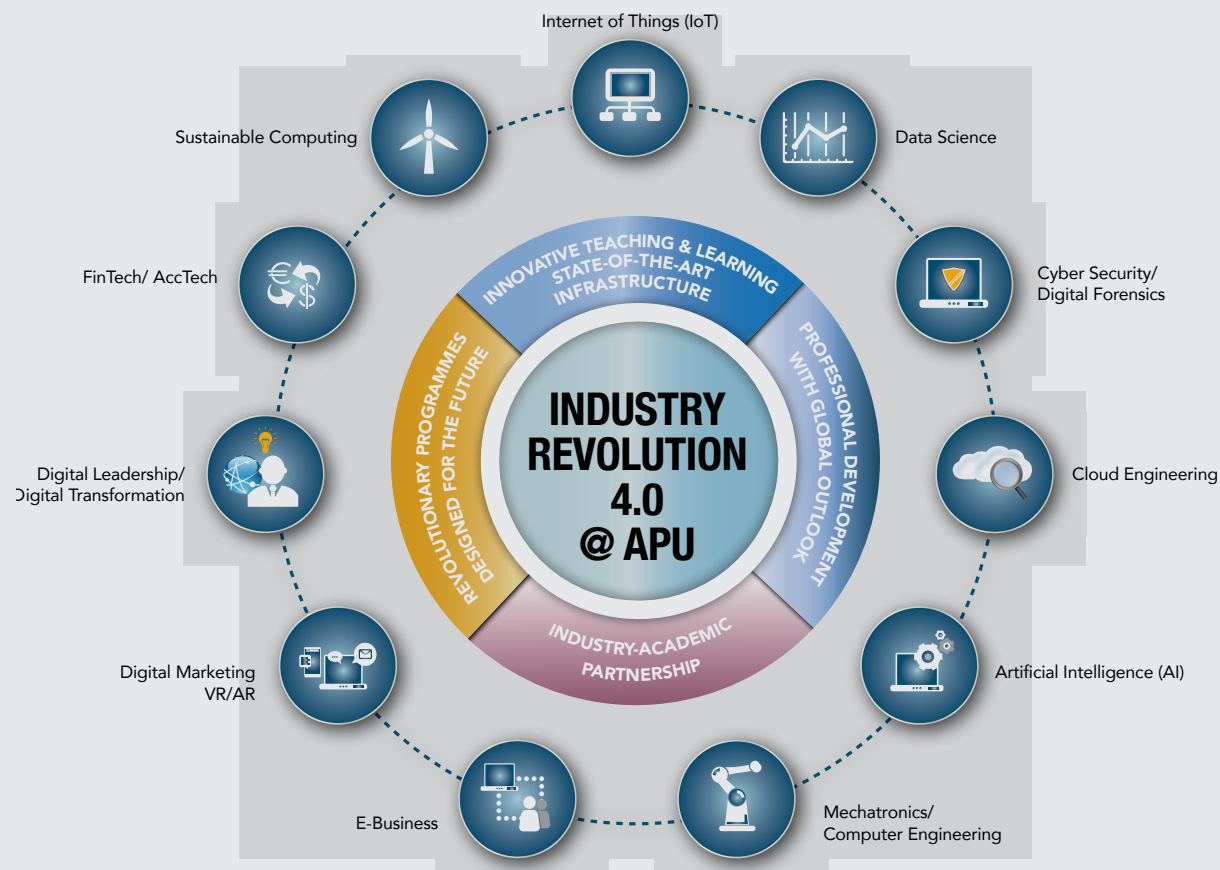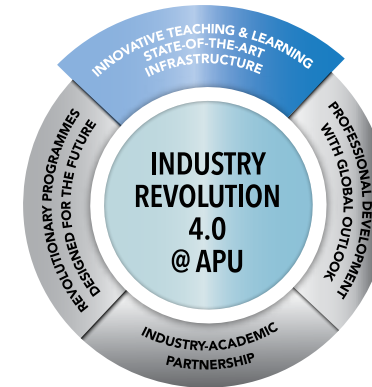
INNOVATIVE TEACHING & LEARNING STATE-OF-THE-ART INFRASTRUCTURE

In the era of Industry 4.0, learning is no longer confined within the classroom. Our iconic campus houses world-class facilities that aim to nurture Creativity & Innovation. Industrial-grade infrastructure are built to provide real-life exposure to our students, cultivating their practical skills aside from academic knowledge. We have also redesigned our teaching & learning methods to stimulate critical thinking, decision making, teamwork and build confidence.
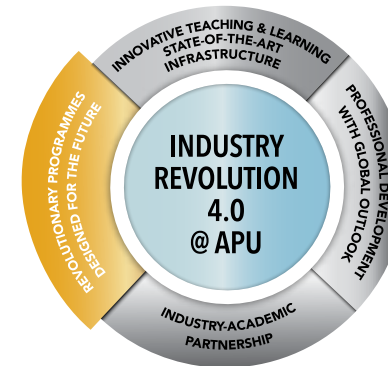

REVOLUTIONARY PROGRAMMES DESIGNED FOR THE FUTURE

New technologies mean new expertise, while this translates into a new need of talents in new areas. We address the needs of the industry, to help to build talents who can manage, operate and innovate under the new IR 4.0 environment, by carefully designing new programmes of the future. Our programmes are first-of-its-kind, such as in Cyber Security, Data Science, Internet of Things (IoT), Artificial Intelligence (AI), Digital Leadership, Digital Transformation, Sustainable Computing, VR/AR, Financial Technology (FinTech), Accounting Technology (AccTech), Digital Marketing, E-Business, Mechatronics, Computer Engineering, Cloud Engineering and more.
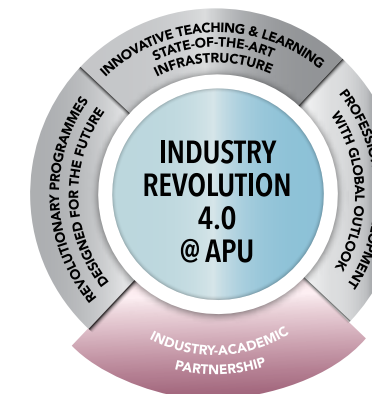
INDUSTRY-ACADEMIC PARTNERSHIP

Industry 4.0 is all about the "industry". Our close relationship with our industry partners allows students to be exposed to real-life case studies, enabling them to formulate innovative solutions even before they graduate. Innovative accelerators such as GrowthX Academy and Supercharger create a platform for students to realize their world-changing ideas, inspiring them to build startups and develop world-changing solutions.
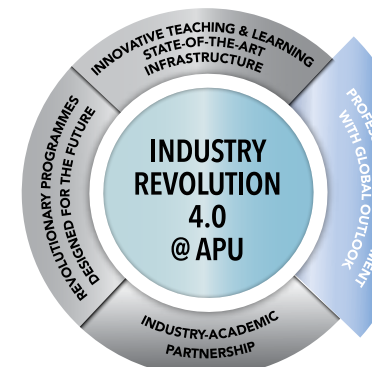
PROFESSIONAL DEVELOPMENT WITH GLOBAL OUTLOOK

Communication skills, professionalism and cultural sensitivity are 'people' element skills that cannot be replaced by machines and automation. Under our unique formula to nurture professionalism, we create an ecosystem that simulates the workplace on-campus. Global outlook, international understanding and respect are nurtured through continuous immersion in multicultural discourse, as our campus houses a community of 12,000 students from over 130 countries.

Bachelor of ELECTRICAL & ELECTRONIC ENGINEERING
with Honours

(R3/0712/6/0015)(02/29)(MQA/FA4013)

At a glance

YEAR 1

Students will understand the basic principles of engineering in the areas of Circuit Analysis, Engineering Materials and Engineering Design. Other modules aim to provide the basic academic skills required to meet the demands of employers, as well as thorough grounding in principles of IT and entrepreneurship. Important and relevant skills for managing activities and for their own independent learning are also introduced.

YEAR 2

Here, students start specialising in modules that develop the necessary underlying knowledge and skills in Electrical & Electronic Engineering with modules such as Analogue Electronics, Digital Electronics, Electromagnetic Field Theory, Engineering Software & Applications and Signals and Linear Systems. Engineering Mathematics is provided for the better understanding of the engineering modules.

YEAR 3

Specialised knowledge and skills in the areas of Control Engineering, Machine Vision & Intelligence, Communication Engineering Principles, Microprocessor Systems & Embedded Software, Digital Signal Processing, Generation, Transmission and Distribution of Electrical Power, and Power Electronics & Drives are the critical focus of this level. There is further development of the ability to apply relevant engineering skills with strong critical thinking and analysis. Independent learning continues in all modules.

INTERNSHIP

Students will undertake an Internship/Industrial Training for a minimum period of 16 weeks to prepare them for a smooth transition from the classroom to the working environment.

YEAR 4

The final year Engineering modules provide the necessary industry application and technological skills which become very useful for employment upon graduation. Students' personal and professional development, technical capability and understanding of how to innovate, generate and manage the creation of new ideas will be enhanced. Students will deliver several Engineering Projects where they will demonstrate higher level critical thinking, analysis and solutions development skills which will enhance their employability.

Module outline

YEAR 1
Common Modules
· Engineering Materials
· Instrumentation & Measurement
· Programming with Python
· Engineering Mathematics 1
· Introduction to C Programming
· Engineering Mathematics 2
· Analysis of Circuits
· Fundamentals of Entrepreneurship

YEAR 2
Common Modules
· Digital Electronics
· Engineering Mathematics 3
· Engineering Software & Applications
· Innovation Process
· Analogue Electronics
· Electromagnetic Field Theory
· Signals & Linear Systems

Specialised Modules
· Electrical Machines 1
· Electrical Machines 2
· Electrical Power Utilization

YEAR 3
Common Modules
· Control Engineering
· Venture Building
· Engineering Mathematics 4
· Communication Engineering Principles
· Microprocessor Systems & Embedded Software
· Digital Signal Processing
· Engineering Project Management

Specialised Modules
· Generation, Transmission & Distribution of Electrical Power
· Power Electronics & Drives

In the 2nd Semester of Year 3
Minor/ Extension Pathway (Choose 1)
· Choose **1 module from Minor Pathway OR Extension Pathway** as described in the table.

INTERNSHIP (16 weeks)

YEAR 4
Common Modules
· Project Phase 1 (Investigation)
· Group Design Project 1
· Group Design Project 2
· Project Phase 2 (Implementation)
· Engineer in Society

Specialised Modules
· Switchgears & Protection
· Power System Analysis
· High Voltage Engineering

Minor/ Extension Pathway (Continuation)
· Choose **1 module from Minor Pathway OR Extension Pathway** as a continuation from the module selected in Year 3 Semester 2 as described in the Table.

MQA Compulsory Subjects*
· Appreciation of Ethics and Civilisation (M'sian Students)
· Malay Communication Language (Int'l Students)
· Philosophy and Current Issues
· Workplace Professional Skills
· Integrity and Anti-corruption
· Co-Curriculum

(*All students are required to successfully complete these modules as stipulated by the Malaysian Qualification Agency)

ELECTRICAL & ELECTRONIC ENGINEERING MINOR/ EXTENSION PATHWAYS
Future Proof Engineers for the Real World

In APU, employment and it's continual sustainability is of paramount importance to us. The range of minor and extensions offered to all students within the School of Engineering will craft a formidable way forward for the young aspiring engineers of tomorrow. These options allow students to embark on a journey of exploration either within the engineering fraternity by extending into greater depth (extensions) niche knowledge, skills and attributes required for the practice of contemporary engineering or explore wider options (minor) that are pivotal in the fundamental proliferation of the engineering profession as a while when coupled with other current multidisciplinary fields of expertise. Successful completion of either pathways future proof the students allowing them to embark on a journey of rewarding careers within an engineering discipline of their choice.

Minor Pathway – Gain breadth of knowledge by taking 3 set modules outside of a particular major field of study. There are minor packages available undertaken from Year 3 Semester 2 Year 4 Semester 1 and Year 4 Semester 2.

MINOR PATHWAY

NAME OF MINOR	Year 3 Semester 2	Year 4 Semester 1	Year 4 Semester 2
IoT	Knowledge Discovery and Big Data Analytics	Internet of Things: Concepts and Applications	Emergent Technology
FinTech	FinTech Governance, Risk Management & Compliance	Digital Finance	Robo Advisor
Digital Transformation	Digital Execution	Digital Strategy & Analytics	Emergent Technology
Data Analytics	Knowledge Discovery and Big Data Analytics	Behavioral Science and Marketing Analytics	Optimization & Deep Learning
Artificial Intelligence	Machine Vision Intelligence (MVI)	Text Analysis & Sentiment Analysis	Emergent Technology
Digital Age Psychology	Industrial & Organizational Psychology	Cyberpsychology	Human Factors Psychology

Extension Pathway – Expand depth of knowledge by taking three (3) set modules in a specific area within a certain field of study. There are extensions available undertaken from Year 3 Semester 2, Year 4 Semester 1 and Year 4 Semester 2.

EXTENSION PATHWAY

NAME OF EXTENSION	Year 3 Semester 2	Year 4 Semester 1	Year 4 Semester 2
Smart Drones	Robotic Technology	Robot Operating Systems	Drone Technology
Smart Manufacturing	Robotic Technology	Robot Operating Systems	Product Creation Technology
Drilling Technology	Drilling Fluids & Hydraulics	Directional Drilling & Surveying	Well Control
Intelligent Design and Manufacturing Technologies	Machine Vision Intelligence	CAD/CAM	Product Creation Technology
Oil and Gas Operations	Gas Engineering	Petroleum Economics	Drilling Fluids & Hydraulics

Bachelor of **MECHATRONIC ENGINEERING**
with Honours

(R3/0713/6/0005)(02/29)(MQA/FA4084)

Duration:
4 years full-time

This programme is specifically designed to provide students with:

- High-quality undergraduate engineering education by providing students with a curriculum that is firmly grounded in Mechatronic engineering fundamentals.
- A study of basic engineering sciences and fundamentals of mechanical, electrical, electronics and computer engineering. Students will be able to integrate these four disciplines.
- The technical skills to design, analyse and test "intelligent" products or processes that incorporate suitable controller, sensor and mechatronic devices for robotics and automation.

Career options
- Automation Engineer
- Mechatronic Engineer
- Mechanical Engineer
- Service Engineer
- QA/QC Engineer
- Sales Engineer
- Support Engineer
- R&D Engineer
- Manufacturing Engineer
- IoT Engineer
- Robotics Engineer
- Plant Engineer
- Design Engineer

At a glance

YEAR 1

Students will understand the basic principles of engineering in the areas of Circuit Analysis, Engineering Materials, Instrumentation & Measurement and Engineering Design. Other modules aim to provide the basic academic skills required to meet the demands of employers, as well as thorough grounding in principles of IT and entrepreneurship. Important and relevant skills for managing activities and for their own independent learning are also introduced.

YEAR 2

Here, students start specialising in modules that develop the necessary underlying knowledge and skills in Mechatronic Engineering with modules such as Analogue Electronics, Digital Electronics, Introduction to Electrical Systems, Electromagnetic Field Theory, Engineering Software & Applications, Signals and Linear Systems, Strength of Materials, Robotics Technology and Sensor & Actuators. Engineering Mathematics is provided for the better understanding of the engineering modules.

YEAR 3

Specialised knowledge and skills in the areas of Control Engineering, Communication Engineering Principles, Microprocessor Systems & Embedded Software, Machine Design, Fluid Mechanics, Industrial Automation and Machine Vision & Intelligence are the critical focus of this level. This is a further development of the ability to apply relevant engineering skills with strong critical thinking and analysis. Independent learning continues in all modules.

INTERNSHIP

Students will undertake an Internship/Industrial Training for a minimum period of 16 weeks to prepare them for a smooth transition from the classroom to the working environment.

YEAR 4

The final year Engineering modules provide the necessary industry application and technological skills which become very useful for employment upon graduation. Students' personal and professional development, technical capability and understanding of how to innovate, generate and manage the creation of new ideas will be enhanced. Students will deliver several Engineering Projects where they will demonstrate higher level critical thinking, analysis and solutions development skills which will enhance their employability.

Module outline

YEAR 1
Common Modules
- Analysis of Circuits
- Instrumentation & Measurement
- Fundamentals of Entrepreneurship
- Engineering Mathematics 1
- Engineering Mathematics 2
- Introduction to C Programming
- Programming with Python
- Engineering Materials
- Engineering Design
- Engineering Statics & Dynamics

YEAR 2
Common Modules
- Analogue Electronics
- Digital Electronics
- Introduction to Electrical Systems
- Engineering Mathematics 3
- Electromagnetic Field Theory
- Engineering Software & Applications
- Signals and Linear Systems
- Innovation Processes

Specialised Modules
- Fluid Mechanics
- Thermodynamics and Heat Transfer
- Sensors & Actuators

YEAR 3
Common Modules
- Control Engineering
- Communication Engineering Principles
- Engineering Mathematics 4
- Microprocessor Systems & Embedded Software
- Engineering Project Management
- Venture Building

Specialised Modules
- Mechanics of Machines
- Industrial Automation
- Robotics Technology

In the 2nd Semester of Year 3
Minor/ Extension Pathway (Choose 1)
- Choose **1 module from Minor Pathway OR Extension Pathway** as described in the table.

INTERNSHIP (16 weeks)

YEAR 4
Common Modules
- Project Phase 1 (Investigation)
- Group Design Project 1
- Project Phase 2 (Implementation)
- Engineer in Society
- Group Design Project 2

Specialised Modules
- CAD/CAM

Minor/ Extension Pathway (Continuation)
- Choose **1 module from Minor Pathway OR Extension Pathway** as a continuation from the module selected in Year 3 Semester 2 as described in the Table.

MQA Compulsory Subjects*
- Appreciation of Ethics and Civilisation (M'sian Students)
- Malay Communication Language (Int'l Students)
- Philosophy and Current Issues
- Workplace Professional Skills
- Integrity and Anti-corruption
- Co-Curriculum

(*All students are required to successfully complete these modules as stipulated by the Malaysian Qualification Agency)

MECHATRONIC ENGINEERING MINOR/ EXTENSION PATHWAYS
Future Proof Engineers for the Real World

In APU, employment and it's continual sustainability is of paramount importance to us. The range of minor and extensions offered to all students within the School of Engineering will craft a formidable way forward for the young aspiring engineers of tomorrow. These options allow students to embark on a journey of exploration either within the engineering fraternity by extending into greater depth (extensions) niche knowledge, skills and attributes required for the practice of contemporary engineering or explore wider options (minor) that are pivotal in the fundamental proliferation of the engineering profession as a while when coupled with other current multidisciplinary fields of expertise. Successful completion of either pathways future proof the students allowing them to embark on a journey of rewarding careers within an engineering discipline of their choice.

Minor Pathway – Gain breadth of knowledge by taking 3 set modules outside of a particular major field of study. There are minor packages available undertaken from Year 3 Semester 2 Year 4 Semester 1 and Year 4 Semester 2.

MINOR PATHWAY			
NAME OF MINOR	**Year 3 Semester 2**	**Year 4 Semester 1**	**Year 4 Semester 2**
IoT	Knowledge Discovery and Big Data Analytics	Internet of Things: Concepts and Applications	Emergent Technology
FinTech	FinTech Governance, Risk Management & Compliance	Digital Finance	Robo Advisor
Digital Transformation	Digital Execution	Digital Strategy & Analytics	Emergent Technology
Data Analytics	Knowledge Discovery and Big Data Analytics	Behavioral Science and Marketing Analytics	Optimization & Deep Learning
Artificial Intelligence	Machine Vision Intelligence (MVI)	Text Analysis & Sentiment Analysis	Emergent Technology
Digital Age Psychology	Industrial & Organizational Psychology	Cyberpsychology	Human Factors Psychology

Extension Pathway – Expand depth of knowledge by taking three (3) set modules in a specific area within a certain field of study. There are extensions available undertaken from Year 3 Semester 2, Year 4 Semester 1 and Year 4 Semester 2.

EXTENSION PATHWAY			
NAME OF EXTENSION	**Year 3 Semester 2**	**Year 4 Semester 1**	**Year 4 Semester 2**
Unmanned Aerial Vehicles	Machine Vision Intelligence	Robot Operating Systems	Drone Technology
Drilling Technology	Drilling Fluids & Hydraulics	Directional Drilling & Surveying	Well Control
Oil and Gas Operations	Gas Engineering	Petroleum Economics	Drilling Fluids & Hydraulics
Smart Robotics	Machine Vision Intelligence	Robot Operating Systems	Product Creation Technology

Bachelor of MECHANICAL ENGINEERING
with Honours

(N/0714/6/0005)(07/30)(MQA/PA16763)

YEAR 1

Students will understand the basic principles of engineering in the areas of Instrumentation and Measurement, Engineering Design, Engineering Materials and Manufacturing Technology. Other modules aim to provide the basic academic skills required to meet the demands of employers, as well as thorough grounding in principles of IT and entrepreneurship. Important and relevant skills for managing activities and for their own independent learning are also introduced.

YEAR 2

Here, students start specialising in modules that develop the necessary underlying knowledge and skills in Mechanical Engineering with modules such as Strength of Materials, Fluids Mechanics, Safety in Oil and Gas Engineering, and Formation Evaluation and Well Logging and Petroleum Geochemistry.

YEAR 3

Specialised knowledge and skills in the areas of Control Engineering, Venture Building, Mechanics of Machine, Machine Design, Industrial Automation, Microprocessor Systems & Embedded Software, Advanced Manufacturing Technology, Computer Aided Engineering are the critical focus of this level. Elective modules included Machine Vision and Intelligence, Gas Engineering, Enhanced Oil Recovery a further development of the ability to apply relevant engineering skills with strong critical thinking and analysis. Independent learning continues in all modules.

INTERNSHIP

Students will undertake an Internship/Industrial Training for a minimum period of 16 weeks to prepare them for a smooth transition from the classroom to the working environment.

YEAR 4

The final year Engineering modules provide the necessary industry application and technological skills which become very useful for employment upon graduation. Students' personal and professional development, technical capability and understanding of how to innovate, generate and manage the creation of new ideas will be enhanced. Students will deliver several Engineering Projects where they will demonstrate higher level critical thinking, analysis and solutions development skills which will enhance their employability.

Module outline

YEAR 1
Common Modules
· Engineering Materials
· Instrumentation and Measurement
· Programming with Python
· Engineering Design
· Engineering Mathematics 1
· Manufacturing Technology
· Engineering Mathematics 2
· Engineering Statics and Dynamics
· Thermodynamics
· Fundamentals of Entrepreneurship

YEAR 2
Common Modules
· Digital Electronics
· Engineering Mathematics 3
· Introduction to Electrical Systems
· Strength of Materials
· Fluid Mechanics
· Innovation Processes
· Safety in Oil and Gas Engineering
· Formation Evaluation and Well Logging
· Petroleum Geochemistry

YEAR 3
Common Modules
· Control Engineering
· Venture Building
· Mechanics of Machine
· Machine Design
· Industrial Automation
· Microprocessor Systems & Embedded Software
· Advanced Manufacturing Technology
· Computer Aided Engineering
· Engineering Project Management

In the 2nd Semester of Year 3
Minor/ Extension Pathway (Choose 1)
· Choose **1 module from Minor Pathway OR Extension Pathway** as described in the table.

INTERNSHIP (16 weeks)

YEAR 4
Common Modules
· Project Phase I (Investigation)
· Project Phase II (Implementation)
· Group Design Project I
· Group Design Project II
· Engineering Vibration
· Heat Transfer
· Engineer in Society

Minor/ Extension Pathway (Continuation)
· Choose **1 module from Minor Pathway OR Extension Pathway** as a continuation from the module selected in Year 3 Semester 2 as described in the Table.

MQA Compulsory Subjects*
· Appreciation of Ethics and Civilisation (M'sian Students)
· Malay Communication Language (Int'l Students)
· Philosophy and Current Issues
· Workplace Professional Skills
· Integrity and Anti-corruption
· Co-Curriculum

(*All students are required to successfully complete these modules as stipulated by the Malaysian Qualification Agency)

Duration:
4 years full-time

This programme is specifically designed to provide students with:

· High quality internationally recognised and accredited engineering education through a robust curriculum that is firmly grounded with the fundamentals of contemporary practices of Mechanical engineering.

· In-depth knowledge of Mechanical Engineering principles through comprehensive yet contemporary coursework and hands-on projects coupled with the opportunity to work and gain experience with state-of-the-art facilities that assist in the promotion of deep and well-grounded understanding of mechanical engineering principles.

· The practical skill on how to ideate, plan, design and realise mechanical systems or prototypes through internationally recognised industry-standard software for simulations promoting the opportunity for a seamless integration with a fast moving forward workforce.

Career options
· Mechanical Engineer
· Product Development Engineer
· HVAC (heating, ventilation, and air conditioning) Engineer
· Automotive Engineer
· Aerospace Engineer
· Energy Engineer
· Manufacturing Engineer
· Robotics Engineer
· Research and Development Engineer
· Process Engineer
· Value Engineer
· Steam Engineer
· Automation Engineer
· Oil and Gas Engineer
· Drilling Engineer

MECHANICAL ENGINEERING MINOR/ EXTENSION PATHWAYS
Future Proof Engineers for the Real World

In APU, employment and it's continual sustainability is of paramount importance to us. The range of minor and extensions offered to all students within the School of Engineering will craft a formidable way forward for the young aspiring engineers of tomorrow. These options allow students to embark on a journey of exploration either within the engineering fraternity by extending into greater depth (extensions) niche knowledge, skills and attributes required for the practice of contemporary engineering or explore wider options (minor) that are pivotal in the fundamental proliferation of the engineering profession as a while when coupled with other current multidisciplinary fields of expertise. Successful completion of either pathways future proof the students allowing them to embark on a journey of rewarding careers within an engineering discipline of their choice.
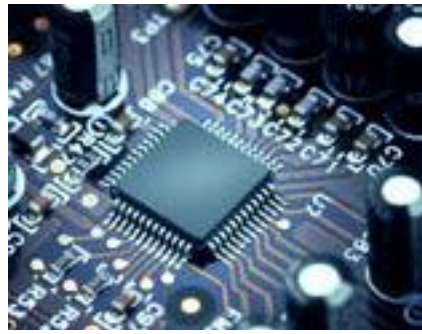
Minor Pathway – Gain breadth of knowledge by taking 3 set modules outside of a particular major field of study. There are minor packages available undertaken from Year 3 Semester 2 Year 4 Semester 1 and Year 4 Semester 2.

MINOR PATHWAY			
NAME OF MINOR	**Year 3 Semester 2**	**Year 4 Semester 1**	**Year 4 Semester 2**
IoT	Knowledge Discovery and Big Data Analytics	Internet of Things: Concepts and Applications	Emergent Technology
FinTech	FinTech Governance, Risk Management & Compliance	Digital Finance	Robo Advisor
Digital Transformation	Digital Execution	Digital Strategy & Analytics	Emergent Technology
Data Analytics	Knowledge Discovery and Big Data Analytics	Behavioral Science and Marketing Analytics	Optimization & Deep Learning
Artificial Intelligence	Machine Vision Intelligence (MVI)	Text Analysis & Sentiment Analysis	Emergent Technology
Digital Age Psychology	Industrial & Organizational Psychology	Cyberpsychology	Human Factors Psychology

Extension Pathway – Expand depth of knowledge by taking three (3) set modules in a specific area within a certain field of study. There are extensions available undertaken from Year 3 Semester 2, Year 4 Semester 1 and Year 4 Semester 2.

EXTENSION PATHWAY			
NAME OF EXTENSION	**Year 3 Semester 2**	**Year 4 Semester 1**	**Year 4 Semester 2**
Unmanned Aerial Vehicles	Machine Vision Intelligence	Robot Operating Systems	Drone Technology
Drilling Technology	Drilling Fluids & Hydraulics	Directional Drilling & Surveying	Well Control
Oil and Gas Operations	Gas Engineering	Petroleum Economics	Drilling Fluids & Hydraulics
Smart Robotics	Machine Vision Intelligence	Robot Operating Systems	Product Creation Technology

Bachelor of **COMPUTER ENGINEERING**
with Honours

(R3/0713/6/0016)(02/29)(MQA/FA5127)

DUAL DEGREE

Duration:
4 years full-time

This programme is specifically designed to provide students with:

- High-quality undergraduate engineering education by providing students with a curriculum that is firmly grounded in Computer engineering fundamentals.
- A study in the area of computer engineering which covers networking, database management, security systems, cloud infrastructure and data analytics.

Career options
- Computer Systems Engineer
- Computer System Analysts
- Computer Network Architect
- Computer Hardware Engineer
- Database Administrator
- Programmer
- IT Engineer
- Application Engineer
- Support Engineer
- Electronics Engineer

At a glance

YEAR 1

Students will understand the basic principles of engineering in the areas of Circuit Analysis, Instrumentation & Measurement, C Programming, Programming with Python, Engineering Materials, Engineering Design and Networking. Other modules aim to provide the basic demands of employers, as well as thorough grounding in principles of IT and entrepreneurship. Important and relevant skills for managing activities and for their own independent learning are also introduced.

YEAR 2

Here, students start specialising in modules that develop the necessary underlying knowledge and skills in Computer Engineering with modules such as Electromagnetic Field Theory, Engineering Software & Applications, Analogue Electronics, Digital Electronics, Signals & Linear Systems, Introduction to Electrical Systems, Object Oriented Development with Java, Programming Concepts in C++ and Human Computer Interaction. Engineering Mathematics is provided for better understanding of the engineering modules.

YEAR 3

Specialised knowledge and skills in the areas of Control Engineering, Communication Engineering Principles, VLSI Design, Microprocessor Systems and Embedded Software, Digital Signal Processing, Modern Communication Systems and Machine Vision & Intelligence are the critical focus of this level. There is further development of the ability to apply relevant engineering skills with strong critical thinking and analysis. Independent learning continues in all modules.

INTERNSHIP

Students will undertake an Internship/Industrial Training for a minimum period of 16 weeks to prepare them for a smooth transition from the classroom to the working environment.

YEAR 4

The final year Engineering modules provide the necessary industry application and technological skills which become very useful for employment upon graduation. Students' personal and professional development, technical capability and understanding of how to innovate, generate and manage the creation of new ideas will be enhanced. Students will deliver several Engineering Projects where they will demonstrate higher level critical thinking, analysis and solutions development skills which will enhance their employability.

(*All students are required to successfully complete these modules as stipulated by the Malaysian Qualification Agency)

Module outline

YEAR 1
Common Modules
- Instrumentation & Measurement
- Engineering Materials
- Programming with Python
- Engineering Mathematics 1
- Introduction to C Programming
- Engineering Mathematics 2
- Analysis of Circuits
- Fundamentals of Entrepreneurship

Specialised Modules
- Introduction to Networking

YEAR 2
Common Modules
- Digital Electronics
- Introduction to Electrical Systems
- Engineering Mathematics 3
- Engineering Software & Applications
- Innovation Process
- Analogue Electronics
- Electromagnetic Field Theory
- Signals & Linear Systems

Specialised Modules
- Human Computer Interaction
- Object Oriented Development with Java
- Fundamentals of Integrated Circuits Design

YEAR 3
Common Modules
- Control Engineering
- Engineering Mathematics 4
- Communication Engineering Principles
- Venture Building
- Microprocessor Systems & Embedded Software
- Digital Signal Processing
- Engineering Project Management

Specialised Modules
- Modern Communication Systems
- VLSI Design
- Analogue Integrated Circuits & Systems

In the 2nd Semester of Year 3
Minor/ Extension Pathway (Choose 1)
- Choose **1 module from Minor Pathway OR Extension Pathway** as a continuation from the module selected in Year 3 Semester 2 as described in the Table.

INTERNSHIP (16 weeks)

YEAR 4
Common Modules
- Project Phase 1 (Investigation)
- Group Design Project 1
- Project Phase 2 (Implementation)
- Engineer in Society
- Group Design Project 2

Specialised Modules
- Computer Systems Security
- User Experience

Minor/ Extension Pathway (Continuation)
- Choose **1 module from Minor Pathway OR Extension Pathway** as a continuation from the module selected in Year 3 Semester 2 as described in the Table.

MQA Compulsory Subjects*
- Appreciation of Ethics and Civilisation (M'sian Students)
- Malay Communication Language (Int'l Students)
- Philosophy and Current Issues
- Workplace Professional Skills
- Integrity and Anti-corruption
- Co-Curriculum

COMPUTER ENGINEERING MINOR/ EXTENSION PATHWAYS
Future Proof Engineers for the Real World

In APU, employment and it's continual sustainability is of paramount importance to us. The range of minor and extensions offered to all students within the School of Engineering will craft a formidable way forward for the young aspiring engineers of tomorrow. These options allow students to embark on a journey of exploration either within the engineering fraternity by extending into greater depth (extensions) niche knowledge, skills and attributes required for the practice of contemporary engineering or explore wider options (minor) that are pivotal in the fundamental proliferation of the engineering profession as a while when coupled with other current multidisciplinary fields of expertise. Successful completion of either pathways future proof the students allowing them to embark on a journey of rewarding careers within an engineering discipline of their choice.
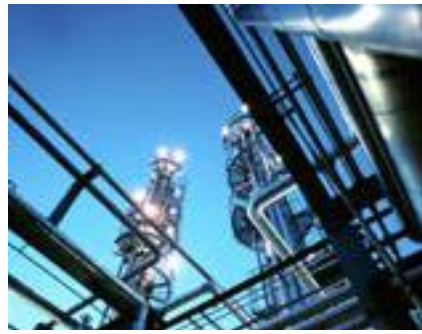
Minor Pathway – Gain breadth of knowledge by taking 3 set modules outside of a particular major field of study. There are minor packages available undertaken from Year 3 Semester 2 Year 4 Semester 1 and Year 4 Semester 2.

MINOR PATHWAY			
NAME OF MINOR	**Year 3 Semester 2**	**Year 4 Semester 1**	**Year 4 Semester 2**
Digital Age Psychology	Industrial & Organizational Psychology	Cyberpsychology	Human Factors Psychology

Extension Pathway – Expand depth of knowledge by taking three (3) set modules in a specific area within a certain field of study. There are extensions available undertaken from Year 3 Semester 2, Year 4 Semester 1 and Year 4 Semester 2.

EXTENSION PATHWAY			
NAME OF EXTENSION	**Year 3 Semester 2**	**Year 4 Semester 1**	**Year 4 Semester 2**
Cloud Computing	Designing and Developing Applications on Cloud	Cloud Infrastructure and Services	Emergent Technology
IoT	Knowledge Discovery and Big Data Analytics	Internet of Things: Concepts and Applications	Emergent Technology
FinTech	FinTech Governance, Risk Management & Compliance	Digital Finance	Robo Advisor
Digital Transformation	Digital Execution	Digital Strategy & Analytics	Emergent Technology
Data Analytics	Knowledge Discovery and Big Data Analytics	Behavioral Science and Marketing Analytics	Optimization & Deep Learning
Artificial Intelligence	Machine Vision Intelligence (MVI)	Text Analysis & Sentiment Analysis	Emergent Technology

Bachelor of PETROLEUM ENGINEERING
with Honours

(R/0724/6/0001)(10/27)(MQA/FA6546)

Duration:
4 years full-time

This programme is specifically designed to provide students with:

- High quality undergraduate engineering education that combines petroleum, gas and exploration engineering to cater for the ever-demanding oil and gas industry.
- The ability to apply engineering principles to the design, development and operation of systems for locating, extracting, processing and refining crude petroleum and natural gas, including mining and drilling systems, processing and refining systems and facilities, storage facilities, transportation systems, and related environmental and safety systems.

Career options
- Production Engineer
- Commissioning Engineer
- Reservoir Engineer
- Well Completion Engineer
- Drilling Engineer
- Process Engineer
- Oil & Gas Design Engineer
- Plant Engineer
- Petroleum Geologist

At a glance

YEAR 1

Students will understand the basic principles of engineering in the areas of Petroleum Engineering, Petroleum Geology, Engineering Materials etc. Other modules aim to provide the basic academic skills required to meet the demands of employers, as well as thorough grounding in principles of IT and entrepreneurship. Important and relevant skills for managing activities and for their own independent learning are also introduced.

YEAR 2

Here, students start specialising in modules that develop the necessary underlying knowledge and skills in Petroleum Engineering with modules such as Rocks & Fluid Properties, Formation Evaluation & Well Logging etc. Other modules such as Introduction to Engineering Software and Applications is used to provide better understanding of software skills.

YEAR 3

Specialised knowledge and skills in the areas of Reservoir Simulation, Drilling Engineering, Reservoir Engineering, Well Design & Completion, Production Engineering, Enhanced Oil Recovery, Well Testing and Gas Engineering are the critical focus of this level. There is further development of the ability to apply relevant engineering skills with strong critical thinking and analysis. Independent learning continues in all modules.

INTERNSHIP

Students will undertake an Internship/Industrial Training for a minimum period of 16 weeks to prepare them for a smooth transition from the classroom to the working environment.

YEAR 4

The final year Engineering modules provide the necessary industry application and technological skills which become very useful for employment upon graduation. Students' personal and professional development, technical capability and understanding of how to innovate, generate and manage the creation of new ideas will be enhanced via Engineering Projects.

(*All students are required to successfully complete these modules as stipulated by the Malaysian Qualification Agency)

Module outline

YEAR 1
Common Modules
- Engineering Materials
- Programming with Python
- Engineering Mathematics 1
- Introduction to C Programming
- Engineering Mathematics 2
- Engineering Statics and Dynamics
- Fundamentals of Entrepreneurship
- Engineering Design

Specialised Modules
- Fundamental of Petroleum Engineering
- Petroleum Geology

YEAR 2
Common Modules
- Engineering Mathematics 3
- Engineering Software & Applications
- Innovation Process
- Fluid Mechanics
- Thermodynamics and Heat Transfer

Specialised Modules
- Elements of Reservoir Rock and Fluid Properties
- Safety in Oil and Gas Engineering
- Fluid Flow in Porous Media
- Petroleum Geochemisty
- Formation Evaluation and Well Logging

YEAR 3
Common Modules
- Venture Building
- Engineering Mathematics 4
- Engineering Project Management

Specialised Modules
- Reservoir Simulation
- Production Engineering
- Reservoir Engineering
- Well Testing
- Gas Engineering
- Enhanced Oil Recovery
- Well Engineering

In the 2nd Semester of Year 3
Minor/ Extension Pathway (Choose 1)
- Choose **1 module from Minor Pathway OR Extension Pathway** as a continuation from the module selected in Year 3 Semester 2 as described in the Table.

INTERNSHIP (16 weeks)

YEAR 4
Common Modules
- Project Phase 1 (Investigation)
- Project Phase 2 (Implementation)
- Engineer in Society

Specialised Modules
- Field Development Project 1
- Field Development Project 2
- Petroleum Economics

Minor/ Extension Pathway (Continuation)
- Choose **1 module from Minor Pathway OR Extension Pathway** as a continuation from the module selected in Year 3 Semester 2 as described in the Table.

MQA Compulsory Subjects*
- Appreciation of Ethics and Civilisation (M'sian Students)
- Malay Communication Language (Int'l Students)
- Philosophy and Current Issues
- Workplace Professional Skills
- Integrity and Anti-corruption
- Co-Curriculum

B.Eng (Hons) in Petroleum Engineering is powered by:

The infusion of software application for petroleum engineering has been fully incorporated into the curriculum. This is in line with the industry's move towards Digital Transformation and enhancing productivity in the field. Strong Industry-Academia partnerships at APU with organisations such as Petroleum Experts Limited, UK (PETEX) and Rock Flow Dynamics Ltd., USA (RFD) have allowed for the provision of industrial software for student learning and research purposes. APU students have the hands-on practical experiences through petroleum engineering related software tools which also are being applied in their Field Development Project (FDP) and Final Year Project (FYP) works. APU is one of the first universities in Malaysia to provide students with a combination of Integrated Production Modelling (IPM) and Reservoir Engineering Simulation (tNav) modern industrial tools. Further strengthening the curriculum is the application of the Computer Modelling Group (CMG) software which is used for reservoir modelling and enhanced oil recovery studies.

PETROLEUM ENGINEERING MINOR/ EXTENSION PATHWAYS
Future Proof Engineers for the Real World

In APU, employment and it's continual sustainability is of paramount importance to us. The range of minor and extensions offered to all students within the School of Engineering will craft a formidable way forward for the young aspiring engineers of tomorrow. These options allow students to embark on a journey of exploration either within the engineering fraternity by extending into greater depth (extensions) niche knowledge, skills and attributes required for the practice of contemporary engineering or explore wider options (minor) that are pivotal in the fundamental proliferation of the engineering profession as a while when coupled with other current multidisciplinary fields of expertise. Successful completion of either pathways future proof the students allowing them to embark on a journey of rewarding careers within an engineering discipline of their choice.

Minor Pathway – Gain breadth of knowledge by taking 3 set modules outside of a particular major field of study. There are minor packages available undertaken from Year 3 Semester 2 Year 4 Semester 1 and Year 4 Semester 2.

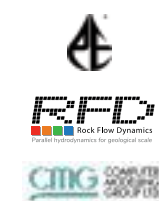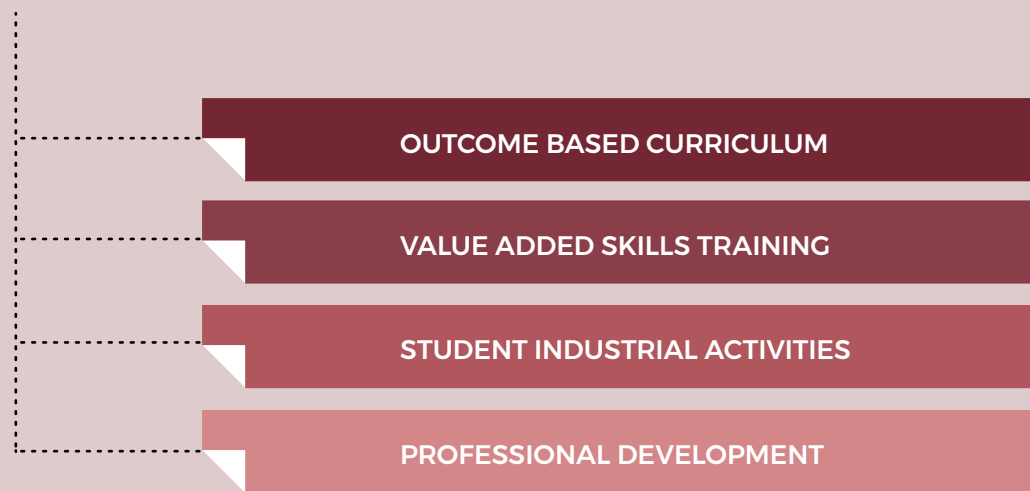| MINOR PATHWAY			
NAME OF MINOR	**Year 3 Semester 2**	**Year 4 Semester 1**	**Year 4 Semester 2**
IoT	Knowledge Discovery and Big Data Analytics	Internet of Things: Concepts and Applications	Emergent Technology
FinTech	FinTech Governance, Risk Management & Compliance	Digital Finance	Robo Advisor
Digital Transformation	Digital Execution	Digital Strategy & Analytics	Emergent Technology
Data Analytics	Knowledge Discovery and Big Data Analytics	Behavioral Science and Marketing Analytics	Optimization & Deep Learning
Artificial Intelligence	Machine Vision Intelligence (MVI)	Text Analysis & Sentiment Analysis	Emergent Technology
Digital Age Psychology	Industrial & Organizational Psychology	Cyberpsychology	Human Factors Psychology

Extension Pathway – Expand depth of knowledge by taking three (3) set modules in a specific area within a certain field of study. There are extensions available undertaken from Year 3 Semester 2, Year 4 Semester 1 and Year 4 Semester 2.

EXTENSION PATHWAY			
NAME OF EXTENSION	**Year 3 Semester 2**	**Year 4 Semester 1**	**Year 4 Semester 2**
Smart Drones	Robotic Technology	Robot Operating Systems	Drone Technology
Smart Manufacturing	Robotic Technology	Robot Operating Systems	Product Creation Technology
Intelligent Design and Manufacturing Technologies	Machine Vision Intelligence	CAD/CAM	Product Creation Technology
Drilling Technology	Drilling Fluids & Hydraulics	Directional Drilling & Surveying	Well Control

The Society of Petroleum Engineers (SPE) Student Chapter at Asia Pacific University of Technology & Innovation (APU) was accorded the 2022 Presidential Award for Outstanding Student Chapter along with counterparts from 16 universities across the world

Engineering Your Success

APU'S SCHOOL OF ENGINEERING, OUR ULTIMATE FORMULA TO SUCCESS:

- OUTCOME BASED CURRICULUM
- VALUE ADDED SKILLS TRAINING
- STUDENT INDUSTRIAL ACTIVITIES
- PROFESSIONAL DEVELOPMENT

ENGINEERING PROGRAMME STRENGTHS

Outcome Based Education

Our curriculum is a collaborative effort, between our team of academicians and our Industry Advisory Panel (IAP). We design our curriculum based on the needs of the industry, to ensure Employability Edge among our students, while maintaining our standards, by ensuring our programmes are full-accreditation compliant.

Our curriculum allows students to own their own future through the deployment of a robust yet turgid curriculum that allows students to expand their horizon into other fraternities (minors) or to deep dive within the engineering fraternity (extensions).

Our programme delivery is based on Outcome Based Education (OBE), in which high graduate employability is our end result.

Value-added Skills Training

Apart from technical knowledge in the Engineering field, we highly believe that students should also possess life skills such as critical thinking, communication and professionalism. Our Problem Based Learning (PBL) leads to producing critical and innovative graduates, in which multiple wins in various industry-standard-competitions are our best testaments of success.

Student Experiences

Our academicians believe that learning should not be confined within classrooms and lecture halls. As early as the first year of their study, students possess the opportunities to gain hands-on exposure to the industry, to experience life as a professional engineer, as well as to build connections with professional engineers through regular industrial visits to manufacturing plants, factories, sites and offices of our industry partners, such as MEASAT, Top Glove, ABB and more.

The IEM-APU Student Section (IASS) is a committee for the students by the students. Since its establishment in 2015, IASS never failed to organise monthly technical events in collaboration with IEM, to boost students' managerial skills, innovation and presentation skills while learning to manage and organise professional-standard events from A to Z.

I am APU

WHAT DO OUR ALUMNI SAY...

NICHOLAS TAN OOI KIAT (Malaysia)
B.Eng (Hons) in Mechatronic Engineering, Class of 2016
Assistant Manager, Engineering - Top Glove Corp Bhd, Malaysia

"I landed my first job at my still present employer pretty much immediately after completing my studies at APU. In a time when it is common to hear "you will only ever use 10% of your degree knowledge", I was pleasantly surprised to experience the exact opposite; every skill, every lesson, and every module covered in my Mechatronics programme came into use in my career. Years after graduation, I still find myself going back to the basics regularly, referencing knowledge from all four years of the course. What's more, thanks to the voluminous practical knowledge gained from carrying out numerous courseworks and lab assignments under expert lecturers, I was much better equipped than many of my industry peers to execute engineering & technology research projects, and most importantly, seeing them through to completion. Now in a leadership position myself, come recruiting time, I always put APU grads at the top of the list. Even my colleagues want to tap into the supply as well!."

ALEX LOOI TINK HUEY (Malaysia)
B.Eng (Hons) in Electrical & Electronic Engineering, Class of 2015
Head of Projects, Registered Electrical Energy Manager (EC), Assoc. ASEAN Engineer - MALIM Consulting Engineers Sdn Bhd

"The Engineering and Computing programme at APU has been an amazing learning experience of having great intellectual capital and a nurturing environment for students. What sets APU apart from others is that students are dressed in full professional attire during school session which I believe transforms students positively (including myself) and take pride as a young professional, ready to engage with the rest of the world. APU brings out the best in students in providing a conducive and nurturing environment to excel in their respective fields and passions.."

WHAT DO OUR ALUMNI SAY...

SABRINA, FONG KAH YAN (Malaysia)
B.Eng (Hons) in Mechatronic Engineering, Class of 2013
Process Engineer - NXP Semiconductor (formerly known as Freescale Semiconductor)

"Receiving my degree from APU gave me the skills and knowledge needed in my engineering career. But untimely, APU and its faculty members prepared me for the professional working environment and instill independence and importance of continuous learning that made me a successful engineer I am today."

MOHAMMAD HUSSAIN (India)
B. Eng (Hons) in Electrical and Electronic Engineering, Class of 2019
Trans Ops Specialist - Relay Operations Centre (ROC) at Amazon, India

"I am eternally grateful for being awarded the APU Merit Scholarship throughout my academic years. The diverse and progressive learning culture at APU helped me develop essential skills which continue to reward me in my career today."

ELAHEH SHAKERI (Iran)
B.Eng (Hons) in Mechatronic Engineering, Class of 2016
Project Engineer - Coesia Group, Italy

"Today I'm proud to be considered as the best of the best engineering graduates in the globally leading supplier of high-tech machinery. APU was where I created my future in."

MAHSOOM RASEEN ABDUL CAREEM (Sri Lanka)
B.Eng (Hons) in Electrical and Electronics Engineering, Class of 2017
Project Lead, Business Consultant at Sysco LABS

"This was an educational journey that played the role of establishing my trait as a professional. The University's discipline and conduct groomed us into better folk to succeed in growing industries while encouraging our creativity with the cutting-edge facilities provided by the campus."

ANDREW TEH BOON KHENG (Malaysia)
B. Eng (Hons) in Mechatronic Engineering, Class of 2015
Technical Support Engineer - Keyence Corporation

"APU provided me a fabulous platform to equip myself to enter the industrial world, from organizing various engineering events to managing a team. Studying at Asia Pacific University has given me a lot of memorable and happy moments. It provided many opportunities for students to learn and explore.

In the university's engineering community, IEM-APU Student Section, I was one of the committee representatives to assist in different events such as seminar coordination, industrial visit arrangements and technical workshops to skill up other studetns and so on. It was such an honour to be enrolled in Asia Pacific University and be involved in this student section, as I could develop my management skills .The student section established a bridge between our internal communities and other universities to reinforce students' experiences during their university life.

These experiences made my student life eventful and valuable during my study at Asia Pacific University."

World-class R&D and Innovation

ACADEMIC RESEARCH

For our staff, learning is a continuous journey where we keep abreast with the latest knowledge in a variety of fields. Our academic staff publish papers and present them at conferences worldwide. Some of the areas of research include:

- Regenerative Power
- Renewable/Green Energy
- Sustainable Development
- Rapid Prototyping
- Material Science
- Modeling of Quantum Dot Systems
- Silicon-based Microdosimeter Applications
- Humanoid Robot development
- Active RFID System in Multi-Hop Wireless Sensor Network
- Automatic Object Retrieval Systems Based on Speech Dictation Technology
- Robotics Haptic and Tactile Sensor development
- Robotics Vision development
- Biomedical Robotics
- Seismic Imaging

- Reservoir Engineering
- Noise Filtration
- Sub-Sea Cable Trenching
- Signal Processing
- Nanoelectronics
- Microelectronics
- Wireless self-charging drone for stock updates
- LoRa monitoring module
- Universal sensor module with IoT
- Smart Lab with voice activation
- Smart Utility for Smart City

INNOVATIVE INDUSTRY-BASED RESEARCH CENTRES @ APU

Asia Pacific Centre of Robotics Engineering

The APCORE (Asia Pacific Center of Robotics Engineering) is an initiative by APU School of Engineering to develop the robotic engineering field within the school. The center undertakes research in various areas of robotics especially humanoid robot development, robotic sensors, robotic vision and biomedical robotics. This will involve lectures by industrial experts and in-house research activities in these areas. The center is also a meeting point for students and lecturers to share ideas and assess their work, as well as a platform for collaboration with industry to keep the research and technology used to be relevant and current. APCORE aims to help lecturers and students to gain knowledge with get hands on experience through involvement in continuous development of robotics technology. Some of projects conducted by APCORE include the development of tele-presence and humanoid robot, participations in international exhibitions and competitions.

Asia Pacific Centre of Analytics (APCA)

Asia Pacific Centre of Analytics – APCA is established in association of multi-discipline expertise from various schools in APU. The vision of APCA is to establish the foundation to develop young data scientists to meet the demands in Malaysia and global. The expertise and experience cover areas of Data Management, Machine Learning, Behavioral Studies, Business Cases, Statistics and Engineering. The formation directs to broad activities in Big Data ecosystem, in line with National vision to make Big Data Analytics the catalyst for nation's economic development: Creating new area in BDA studies, Embedding BDA topics into Undergraduate and Postgraduate studies, Development of Educational and Industrial Framework, Creating Project Marketplace, Research project commercialisation and crowdfunding, Consultancy and Training Services.

Centre for Research and Development of IoT (CREDIT)

The establishment of Centre for Research and Development of IoT (CREDIT) is a significant milestone that supports the objectives of the Malaysia National IoT Strategic Roadmap initiative. CREDIT aims to provide students and academic staff the opportunities to access IoT-related knowledge and know-how through various activities. It also acts as a hub to support commercialising potential state-of-the-art solutions resulting from R&D projects. Additionally it allows students to be engaged in a current key requirement sector which will increase employability rates.

APU IEEE Student Branch

APU IEEE Student Branch, which is part of the Malaysia Section under Region 10 (Asia and Pacific), was formulated in 2014. As a member of IEEE, APU students have a wide variety of resources and valuable opportunities to advance their knowledge and future career. APU Student Branch provides numerous educational, technical, and professional development for its members through special projects, activities, meetings, tours and field trips. Following three student technical chapters namely Computer Society, Communication Society and Computational Intelligence are also established under the Student Branch which offer the opportunity for APU student members to network with peers, develop activities for professional development, and share expertise through technical exchange.

APU Motorsports Club

The Club focuses on performance and eco-friendly competitions. The academic staff and students work on constructing efficient cars based on materials study, structural engineering, engine optimum performance and control mechanisms for local races such as EIMA, GT 128, IPMA and Formula Y.

APU 5G Research Lab

The APU-5G research lab was established to serve as a platform for members from academia, business and industry to collaborate on 5G research to create market ready, innovative 5G technology solutions, applications and business ventures. The APU-5G research lab facilitates research at circuit, system and network level in 5G technologies and also is focused to the pathway for 6G technology to develop a powerful, faster, greener, sustainable network which will be smarter with infusion of AI, ML and Reinforcement learning.

The research lab aims at exploring the cutting edge technologies such as SDN, NFV, mm/THz Wave Band, Radio Access, Massive MIMO, D2D Communication, Ultra Densification, IoT, Big Data, Mobile Computing and fusion of AI and ML for development of 5G core and Radio Access Network Infrastructure. The developed 5G Network Infrastructure will be a platform to develop and test a range of use cases of primary, secondary and tertiary industries and business that are built on communication infrastructure. The 5G lab in association with the other research centers of APU will facilitate research in 5G network security, Network Data Collection and Analysis for Smarter 5G/6GNetwork and Highspeed Sensor Networks for Autonomous Industry.

INNOVATIVE INDUSTRY-BASED RESEARCH CENTRES @ APU

Internships & Industrial Training

FYPBaNK - An online facility to support students' development of their final year project to meeting industry standards, to enhance employability and to assist student in ensuring projects are fit for purpose at the final year of study.

It is a facility web-based integrated system that facilitates the project management responsibilities carried out by the APU FYP students, supervisors, second markers, FYP administrators and project managers.

The companies who have and are contributing to FYPBaNK are INFOPRO SDN BHD, Bank Negara Museum and Art Gallery, DLoop Empeiria Sdn Bhd, Everly Group, GCA, Hilti, LOW Health Care Services, MAD Incubator, MIMOS Wireless Innovation Lab, Neruti Technology Sdn Bhd, REDtone, Signal Transmission (M) Sdn Bhd and Top Glove Sdn Bhd. Students are allowed to work on an industrial FYP proposals selected from the FYPBaNK. Our FYP students have successfully completed the industrial projects selected from the FYPBaNK. The end-product of each industrial project is being used by the real users.
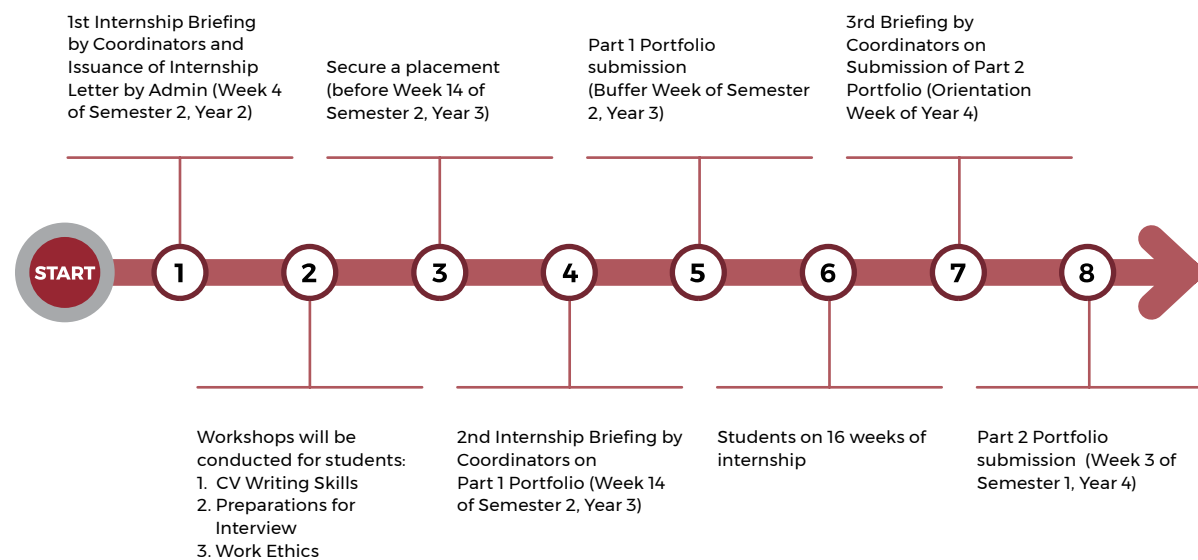
Internships & Industrial Training

Prior to starting the final year of study APU students will do internship or industrial training placements for 16 weeks. This is to enable students to gain industrial or professional learning experiences to develop transferable skills for employability so as to enhance their future value to employers. Familiarity with all common processes is essential and exposure at a practical level to a wide variety of processes is required at a level appropriate to young professional. Whilst it is clearly desirable for students to get a feel for the skills involved, the central aim is to achieve appreciation. Industrial training is a key component of learning in an integrated academic curriculum.

Taking this exposure as an important element in the curriculum APU ensures the smooth process of facilitation by starting the process a semester by guiding and nurturing the students via workshops and classes dedicated to;

1 - Development of a CV

2 - Attending Interviews

3 - Working professionally and ethically at a organisation

APU also has dedicated Internship Officers per school and a company pool bank in which student can choose from in terms of writing in or direct placements.

1st Internship Briefing by Coordinators and Issuance of Internship Letter by Admin (Week 4 of Semester 2, Year 2)

Secure a placement (before Week 14 of Semester 2, Year 3)

Part 1 Portfolio submission (Buffer Week of Semester 2, Year 3)

3rd Briefing by Coordinators on Submission of Part 2 Portfolio (Orientation Week of Year 4)

Workshops will be conducted for students:
1. CV Writing Skills
2. Preparations for Interview
3. Work Ethics

2nd Internship Briefing by Coordinators on Part 1 Portfolio (Week 14 of Semester 2, Year 3)

Students on 16 weeks of internship

Part 2 Portfolio submission (Week 3 of Semester 1, Year 4)

State-of-the-art☆ Engineering Equipment

It's all going on
@APU
Students from over 130 countries ☆

Awards & Accolades

APIIT Education Group is the proud recipient of
Prime Minister's Award
and Export Excellence Award (Services) for Industry Excellence Awards - March 2011

The APIIT Education Group received the prestigious Prime Minister's Industry Excellence Award from the Prime Minister of Malaysia. Only one organisation was selected to receive the Prime Minister's Industry Excellence Award from among nearly 30 other award recipients in 8 different categories.

The Industry Excellence Awards, organised by the Ministry of International Trade & Industry (MITI), recognises and rewards organisations for organisational excellence including competitiveness, innovativeness, market presence and export performance. Winning the Prime Minister's Industry Excellence Award is a significant milestone and an honour for APU as a leader in higher education. The award truly reflects our commitment and focus on quality, innovation, graduate employability and internationalisation.

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MAKING HISTORY - AWARDS AND ACHIEVEMENTS

Awards received by the university and our students at local, regional and international competitions are a testimony to their knowledge, skills and professional attributes.

TALENTBANK'S EMPLOYERS' CHOICE AWARD
2024 - Employers' Choice of University

CYBERSECURITY EXCELLENCE AWARDS
- BEST CYBERSECURITY EDUCATION PROVIDER IN ASIA
2024 - Gold Winner
2023 - Gold Winner
2022 - Gold Winner
2021 - Gold Winner
2020 - Gold Winner
2019 - Gold Winner

VARSITY HACKATHON
2024 - Champions

WICKED6 GLOBAL WOMEN'S CYBER LEAGUE GAME 2024 CAPTURE THE FLAG (CTF)
2024 - 1st Place in the Hack the Box Hacking Battlegrounds (HTB) Challenge
2024 - 2nd Place in the MetaCTF
2024 - 1st Place in the Women's Society of Cyberjutsu (CTF)
2024 - 2nd Place in the HaikuCTF

ETHTAIPEI HACKATHON
2024 - 1st Place for using dual investment on Dyson Finance
2024 - 1st Place for deploying smart contracts on ThunderCore
2024 - 2nd Place in the Best Overall Project on Zircuit

MALAYSIA TECHNOLOGY EXPO'S (MTE) ASIAN YOUTH INNOVATION AWARDS (AYIA)
2024 - Gold Medal (ICT category)

DIGITAL CAMPUS 2.0 CAMPAIGN BY PAYNET
2024 - The Champion & The Best Pitch

INSTITUTE OF ENGINEERS MALAYSIA (IEM) AWARD
2023 - Gold Award
2022 - Gold Award
2020 - Gold Award
2019 - Gold Award
2018 - Gold Award
2017 - Gold Award
2016 - Gold Award
2015 - Gold Award
2014 - Gold Award

INTERNATIONAL HUMAN-ENVIRONMENT CARE FILM FESTIVAL (HECFF)
2023 - Best Cultural Diversity Film Award

MDEC PREMIER DIGITAL TECH INSTITUTION AWARDS
2023 - Outstanding Faculty Award (University Category)
2023 - Outstanding Faculty Member Awards (3rd Place)
2022 - PDTI Outstanding Faculty
2022 - Best Faculty Member

PRIVATE EDUCATION EXCELLENCE AWARDS
2023 - Best in Student Achievements (Institution Category)
2023 - Best in Diversity & Inclusion (Institution Category)
2023 - National Outstanding Innovator Award (University category)
2023 - National Outstanding Young Educator Merit Award

ASIA PACIFIC ICT AWARDS (APICTA) MALAYSIA
2023 - National Winner of Industrial (Manufacturing) and Students (Tertiary) category (MSC Malaysia APICTA)
2022 - Winner of 'Student-Tertiary Technology'
2020 - Winner of 'Best of Tertiary Student Project'
2019 - Winner of 'Best of Tertiary Student Project'
2016 - Top Award for 'Best of Tertiary Student Project'
2013 - Top Award for 'Best of Tertiary Student Project'
2012 - Top Award for 'Best of Tertiary Student Project'
2011 - Winner of 'Special Jury Award' by the Prime Minister
2011 - Top Award for 'Best of Tertiary Student Project'
2011 - Merit Award for 'Best of Tertiary Student Project'
2011 - Merit Award for 'Best of Tertiary Student Project'
2010 - Top Award for 'Best of Tertiary Student Project'
2008 - Top Award for 'Best of e-Inclusion & e-Community'
2005 - Top Award for 'Best of Applications & Infrastructure Tools'
2004 - Top Award for 'Best of Education & Training'
2004 - Top Award for 'Best of Applications & Infrastructure Tools'
2004 - Merit Award for 'Best of Research & Development'
2003 - Merit Award for 'Best of Research & Development'
2002 - Merit Award for 'Best of Smart Learning Applications'
2001 - Merit Award for 'Best of Smart Learning Applications'
2000 - Merit Award for 'Best of Smart Learning Applications'
2000 - Top Award for 'Best of Student Projects'
1999 - Merit Award for 'Best of Student Projects'

HILTI IT COMPETITION
2023 - Champion
2022 - 2nd Runner Up
2021 - Champion
2020 - Champion
2020 - 1st Runner Up

HACKTITUDE MALAYSIA
2023 - Champion

INTERNATIONAL UNIVERSITY CARNIVAL ON E-LEARNING (IUCEL) COMPETITION
2023 - 3 Gold Awards
2022 - 2 Silver Awards 1 Bronze Award
2021 - Gold
2021 - 2 Silver Awards
2019 - 2 Gold Awards
2019 - Silver
2018 - 2 Gold Awards
2018 - Silver

5TH CARNIVAL OF RESEARCH AND INNOVATION (CRI)
2023 - 2 Gold, 2 Silver and 2 Bronze Medals

NATIONAL SYMPOSIUM ON HUMAN COMPUTER INTERACTION - FUSION
2023 - 1 Gold award, 2nd Placing Awards, and 2 Silver Awards
2022 - 1 Gold award, 3 Silver awards, 5 Bronze awards, 3 Special Jury Awards for best poster and best video, and 2 Lucky Winners

IMPACTHACK BY STANDARD CHARTERED
2023 - Champion

INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION (ITEX)
2023 - 1 Gold Award
2023 - 6 Silver Awards
2022 - 1 Gold Award
2019 - 1 Gold Award
2018 - 1 Bronze Award
2018 - 1 Silver Award
2018 - 1 Silver Award
2017 - 1 Silver Award
2016 - 1 Gold Award
2016 - 1 Silver Award
2015 - 1 Gold Award
2015 - 1 Bronze Award
2014 - 1 Gold Award
2014 - 1 Bronze Award
2013 - 2 Silver Medals
2016 - Best Green Invention Award
2013 - 2 Gold medals for the innovator category

UNIVERSITI MALAYA (UM) HACKATHON
2023 - 2 Champions

MYSTARTUP HACKATHON X DIGITAL NASIONAL BERHAD (DNB)
2023 - Problem Statement 3 Winner

TAIPEI DESIGN AWARD
2023 - Silver Prize Winner (Industrial Design Category)

ASIAN COMPACT SEDAN DESIGN CHALLENGE 2023 (ACSDC)
2023 - Champion

WATER VANGUARDS CHALLENGE 2023
2023 - Champion

WICKED 6 CYBER GAMES, 2023 WOMEN'S GLOBAL CYBER
2023 - 1st Place in Women's Society of CyberJutsu (WSC) CTF
2023 - 2nd Place in the Haiku CTF and Security Innovation CTF
2023 - 7th Place in the SANS Bootup CTF

30-HOUR NO-CODE HACKATHON
2023 - First Place Winner

MICROSOFT'S CODE; WITHOUT BARRIERS HACKATHON
2023 - Winners

APU-AWS DEEPRACER COMPETITION
2023 - 1st Place
2023 - 2nd Place
2023 - 3rd Place

ADOBE CERTIFIED PROFESSIONAL (ACP) CHAMPIONSHIP MALAYSIA
2023 - National Champion
2022 - Top 5

WORLD OF ROBOTICS CHAMPIONSHIP (WRC)
2023 - Champion

PETRONAS INTER-UNIVERSITY CAPTURE THE FLAG (CTF) CHALLENGE 2023
2023 - First Place & Second Runner Up

DATA MINING CUP
2023 - Best Project of the Year: Returns Reduction in E-commerce
2022 - 1st Place & 3rd Place

ASIA PACIFIC, JAPAN, AND CHINA (APJC) CISCO NETRIDERS COMPETITION
2023 - 1st Place

PERODUA SEDAN DESIGN CHALLENGE
2023 - Champion

ETHEREUM BLOCKCHAIN HACKATHON AT ETH SEOUL 2023
2023 - Best Governance App Winner

INTERVARSITY CORPORATE STRATEGY CHALLENGE (ICSC)
2023 - 1st Runner-Up

ITANK COMPETITION
2023 - Best Solution in the Environment category case study

GAME OF HACKERS
2023 - 1st Runner-Up and 3rd Runner Up

ASEAN-CHINA-INDIA YOUTH LEADERSHIP SUMMIT (ACIYLS)
2023 - 2nd Place Winner

IEM STUDENT RESEARCH E-POSTER COMPETITION
2023 - Second Prize Winner (Individual Category)

INTERNATIONAL OCEAN HACKATHON
2023 - 3rd Place (Ocean Hackathon International Grand Finale 2023, Brest, France)
2023 - Champion (Ocean Hackathon Kuala Lumpur)
2023 - Top 10 (Ocean Hackathon Maldives)

INTERNATIONAL INNOVATION ARSVOT MALAYSIA (IAM)
2022 - Gold Award
2022 - Bronze Award
2021 - Silver
2021 - Silver

UTAR-FICT INAUGURAL INTERVARSITY CAPTURE THE FLAG (CTF) COMPETITION
2023 - 1st Place & 2nd Runner Up

SIBER SIAGA'S CAPTURE THE FLAGS (CTFS): CODE COMBAT
2023 - 2nd Place
2023 - 3rd Place
2023 - 6th Place
2023 - 9th Place
2022 - 2nd Place
2022 - 2nd Place
2022 - 3rd Place
2022 - 6th Place

INTERVARSITY CORPORATE STRATEGY CHALLENGE (ICSC)
2023 - 1st Runner-Up

TAIPEI DESIGN AWARD
2023 - Silver Prize Winner (Industrial Design Category)

IEM STUDENT RESEARCH E-POSTER COMPETITION
2023 - Second Prize Winner (Individual Category)

INTERNATIONAL INNOVATION, TECHNOLOGY & RESEARCH EXHIBITION AND CONFERENCE (iTREXC)
2023 - 2nd Place
2023 - 3rd Place

ASEAN-REPUBLIC OF KOREA (ROK) YOUTH METAVERSE IDEA CONTEST
2023 - 3rd Place Winner

ODYSSEY HACKFEST: ONLINE CATEGORY
2022 - Champion

INTEL & CREST INDUSTRY-UNIVERSITY CHALLENGE
2022 - Grand Prize

THE ART OF WHEELS: RIM DESIGN CHALLENGE
2022 - Champion
2022 - 1st Runner-up
2022 - Consolation

MALAYSIA TECHLYMPICS: DATA SCIENCE CHALLENGE
2022 - Champion

INTERNATIONAL INNOVATION ARSVOT MALAYSIA (IAM)
2022 - Gold Award
2022 - Bronze Award
2021 - Silver
2021 - Silver

4TH NATIONAL SYMPOSIUM ON HUMAN COMPUTER INTERACTION - FUSION 2022: STUDENT DESIGN COMPETITION
2022 - 1 Gold award, 3 Silver awards, 5 Bronze awards, 3 Special Jury Awards for best poster and best video, and 2 Lucky Winners

ODYSSEY HACKFEST: ONLINE CATEGORY
2022 - Champion

JAMES DYSON AWARD MALAYSIA
2022 - National Runner Up
2021 - National Champion
2020 - National Champion

INTERNATIONAL UNIVERSITY CARNIVAL ON E-LEARNING (IUCEL) COMPETITION
2022 - 2 Silver Awards 1 Bronze Award
2021 - Gold
2021 - 2 Silver Awards
2019 - 2 Gold Awards
2019 - Silver
2018 - 2 Gold Awards
2018 - Silver

THE IMECHE PLC DESIGN COMPETITION
2022 - 1st Runner Up
2021 - Champion (Degree Level)
2021 - 1st Runner Up (Degree Level)
2021 - 1st Runner Up (Diploma Level)

IEM-INTEGRATED DESIGN PROJECT SHORT VIDEO COMPETITION
2022 - 1st Place Winner

INNOVATIVE RESEARCH, INVENTION AND APPLICATION EXHIBITION (I-RIA)
2022 - Silver Awards

SEAR PLC DESIGN COMPETITION
2022 - 1st Runner Up

BATTLE OF HACKERS (BOH)
2022 - 1st Runner Up
2022 - 3rd Runner Up
2021 - Champion
2021 - Top 6
2021 - Top 7
2021 - Top 8

FINAL YEAR PROJECT & POSTGRADUATE: RESEARCH & INNOVATION POSTER COMPETITION (RIPC)
2022 - Gold Winner in the Category: Master Science, Technology, Engineering, and Mathematics
2021 - Gold Award in the Category C1: Degree Final Year Project Science, Technology, Engineering and Mathematics

RHB GET YOUR HACK ON: DATA EDITION
2022 - Winner of AWS Special Award

SOCIETY OF PETROLEUM ENGINEERS (SPE) INTERNATIONAL
2022 - Society of Petroleum (SPE) Presidential Award for Outstanding Student Chapter
2021 - Student Chapter Excellence Award

IMECHE DESIGN SKILL COMPETITION
2021 - Champion

CISCO PACKET TRACER NATIONAL CHALLENGE
2021 - Champion

PENANG INTERNATIONAL INVENTION, INNOVATION AND DESIGN (PIID)
2021 - Gold
2021 - Silver

EY ENTREPRENEUR OF THE YEAR MALAYSIA
2021 - EY Entrepreneur Of The Year 2021 Malaysia

ASIA INTERNATIONAL INNOVATION EXHIBITION (AIINEX)
2021 - 2 Gold Awards + 2 Special Awards

THE AWS HACKATHON BUILD ON MALAYSIA
2021 - Champion
2021 - 1st Runner Up
2021 - 2nd Runner Up
2020 - Champion
2020 - Best Innovation Award

THE VIRTUAL INNOVATION COMPETITION (VIC) AWARD
2021 - 2 Gold Medal in the Category: Tertiary - Science & Technology
2021 - Best Video Special Award in the Category: Tertiary - Science & Technology

FUSION UX-HACKATHON
2021 - 1st Place & Gold Award
2021 - Silver Award
2021 - Bronze Award

MIFF FURNITURE DESIGN COMPETITION
2021 - Winner
2021 - Best Mentor Award

DIVERSITY AND INCLUSION YOUTH CONFERENCE (DYIC) COVID-19 BUSINESS STARTUP CHALLENGE
2021 - Grand Prize

UPSI'S CONNECT 2021 — DESIGN 2 CONNECT E-POSTER COMPETITION
2021 - 1st Prize
2021 - 2nd Prize
2021 - 3rd Prize

XYLEM REACH STUDENT HACKATHON
2021 - 1st Prize Winner

TUNKU ABDUL RAHMAN UNIVERSITY COLLEGE (TAR UC) CAPTURE-THE-FLAG COMPETITION
2021 - Champion
2021 - 2nd Runner Up

YOUNG EXCELLENCE AWARD (YEA)
2021 - Winner of the Young Excellence Award (YEA) 2021 under category Pandemic Leadership Award

WORLD ENGINEERING, SCIENCE & TECHNOLOGY CONGRESS (ESTCON2020)
2021 - Winner of 'Best Paper Award' in the International Conference on Production, Energy & Reliability (ICPER) category

SUSTAINABLE DEVELOPMENT GOALS (SDG) FILMFEST
2021 - Winner of 'Best Overall Film'
2021 - Winner of 'Dramatization or Re-Enactment Award'
2021 - Winner of 'Best Production Value Award'

MERDEKA AWARD PRESENTATION CEREMONY
2021 - Grantee of the Merdeka Award Grant for International Attachment

THE 3RD INTERNATIONAL ACADEMIC AND RESEARCH EXCELLENCE AWARDS (IARE)
2021 - The Best Academician of the Year Award (Male) (Overseas)

PEKAN RAYA STATISTIKA DATA ANALYSIS COMPETITION
2021 - Best Algorithm Award

28TH NATIONAL MATHEMATICAL SCIENCE SYMPOSIUM
2021 - PERSAMA Award for Best PhD Thesis and Best Academic Article

AIM DATA SCIENCE FACULTY EXCELLENCE AWARD
2021 - Outstanding Graduate Student Teaching Award

ASIA INTERNATIONAL INNOVATION EXHIBITION (AIINEX)
2021 - 2 Gold Awards + 2 Special Awards

THE VIRTUAL INNOVATION COMPETITION (VIC) AWARD
2021 - 2 Gold Medal in the Category: Tertiary - Science & Technology
2021 - Best Video Special Award in the Category: Tertiary - Science & Technology

KARUNA HACKWND
2021 - 1st Place & 3rd Place in the Mobile Application Category

THE GREAT GREEN SUSTAINABILITY CHALLENGE 2021
2021 - 1st Place & 2nd Place

TCS SUSTAINATHON MALAYSIA
2021 - 1st Runner Up

INTERNATIONAL INVENTION, INNOVATION & DESIGN EXPO (INoDEx)
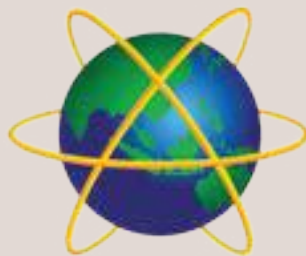2021 - 4 Silver Awards

THE INTERNATIONAL RESEARCH AND SYMPOSIUM AND EXPOSITION (RISE)
2021 - Silver Award

For more awards listing, please visit APU website.

A·P·U
ASIA PACIFIC UNIVERSITY
OF TECHNOLOGY & INNOVATION

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ASIA PACIFIC INSTITUTE
OF INFORMATION TECHNOLOGY

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