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# ENGINEERING

Global.  
Entrepreneurial.  
Trendsetter.

**#GoForIt with MMU**

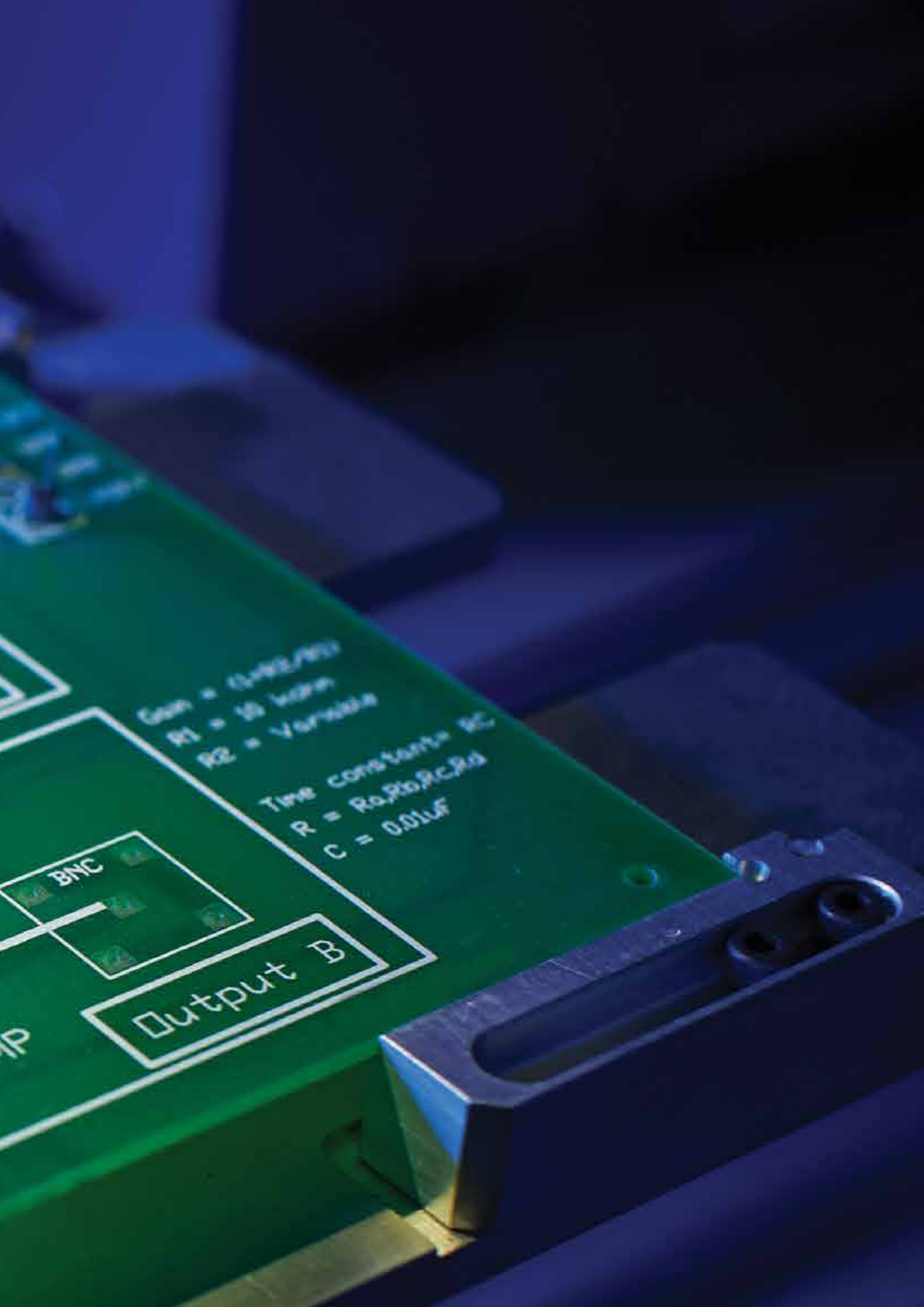
Life  
Made  
Easier™



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A professional portrait of Professor Datuk Dr. Ahmad Rafi Mohamed Eshaq. He is a middle-aged man with dark hair and a goatee, wearing a grey suit jacket, a white shirt, and a striped tie. He is standing outdoors with green foliage in the background, leaning on a dark railing with his hands clasped. The photo is framed by a thin yellow border.

PROFESSOR DATUK DR. AHMAD RAFI  
MOHAMED ESHAQ  
CEO/President, Multimedia University

“Education is the most powerful weapon used to change the world. Our greatest responsibility as educators is to teach our students to think both intensely and critically. By equipping our students with the right tools, knowledge and skills, they can go out into the world and shape their future.

As a Premier Digital Tech University and being a trendsetter of the private higher learning provider in Malaysia, we are steadfast in preparing our graduates for leadership roles in their respective disciplines and professions.”

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PROFESSOR DATUK DR. AHMAD RAFI  
MOHAMED ESHAQ  
CEO/President, Multimedia University

# Engineering at MMU

If you have your heart set on making engineering your career, MMU is the university for you. Listed in the **Top 200 QS World University Rankings** in Electrical and Electronic Engineering for three consecutive years in 2015, 2016 and 2017, MMU offers award-winning, practical and industry-ready degrees that will allow you to make a real and lasting impact as an engineer of the future.

Expertise and knowledge are what we seek to empower our students. We are committed to offer programmes that will enhance your depth and perception as well as employability in the field of Engineering.

With our industry-led curriculum, you will gain not only technical knowledge and skills, but also relevant soft and management skills. Many of your lecturers are professionals and specialists in their fields who will be able to impart real-life experience and solutions to your learning. We also have strong collaborations with global industry leaders who are ready to share their knowledge of cutting-edge innovative technologies to keep you up-to-the-minute with current and future industry needs.

# PROMOTING INNOVATION AND ENTREPRENEURSHIP

MMU was the **first private university approved** by the Malaysian government. We adhere to the strictest requirements for a high quality degree; going beyond academic excellence to offer the best, complete and balanced university experience for our students.

A study by Gartner and MSC Malaysia found that MMU is among the **top five universities** preferred by major ICT players for graduate employment - a testament to the quality of our academicians, curriculum, student development programmes and our solid reputation with the industries.

One of the university's primary objectives is to be able to **inspire and innovate others**. We understand that the future lies in technology, and we are adamant to help shape people who will help make a better tomorrow.







KO CHUAN ZHEN  
Bachelor of Engineering (Hons.)  
(Electrical) 2008

MMU Alumni

“I'm grateful and deeply appreciate the exposure I've received as an MMU student. Without the inspiring opportunities and learning platform that was provided by MMU, I would not have found myself in the shoes of an entrepreneur in the clean energy industry today.”

—  
KO CHUAN ZHEN

Co-founder of +SOLAR (Plus Solar Systems Sdn. Bhd.)



# AN AWARD-WINNING UNIVERSITY WITH A GLOBAL OUTLOOK



- Be part of a globally ranked university that is listed in the **Top 200 QS World University Rankings** and continues to strive with solid breakthrough to be at the 179<sup>th</sup> spot in **QS Asia University Rankings**.
- Study alongside 1,500 **international students** from more than 70 countries.
- Experience the best and latest technologies from our collaborations with **major ICT players** such as ZTE, Nokia, Intel, Microsoft, Cisco and Motorola.
- Get exposure to some of the **best practices of the world's best universities** such as MIT, Stanford, Carnegie Mellon, Harvard, USC and Tokyo University.



**Top 200 in QS Asia  
University Rankings  
2018**



**Top 3 - Most  
Entrepreneurial  
Private University**

MOHE Entrepreneurial Award  
(MEA) 2016



**Awarded Self-  
Accreditation Status, 2017**  
Malaysian Qualifications  
Agency (MQA) 2017



**97% Employability  
within 6 months  
of graduation**

Ministry of Higher Education  
(MoHE) Tracer Study &  
MOE Kemaskini Status  
Pekerjaan 2015



**MMU's IT Graduates  
are most preferred  
by Malaysian Firms**  
Frost & Sullivan Asia Pacific  
(MDEC's Malaysian Digital  
Talent Study 2017 Final  
Findings)



**Premier Digital Tech  
University Status, 2017**

Ministry of Higher Education  
(MoHE) and Malaysia Digital  
Economy Corporation (MDEC)

# AN ENTREPRENEURIAL UNIVERSITY WITH INDUSTRY-READY PROGRAMMES



## **A Well-rounded Education**

Be empowered with the fundamentals of your field of study that also incorporate entrepreneurial skills and expertise which are relevant to your respective industries and job markets.



## **Industry in Campus**

Be connected and gain benefit from our state-of-the-art labs established by our industry collaboration with ZTE, Microsoft, Intel and many more.



## **Ready for Industry**

Be enthused with Start-up Schemes from the Entrepreneur Development Centre (EDC) to encourage innovation and entrepreneurship ventures.



NOOR HELMI NONG HADZMI  
Bachelor of Telecommunication  
Engineering, 2003

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MMU Alumni

“MMU is where I dreamt of having my own business. I built the company together with my roommates in our hostel room and have now managed to expand it to what it is today. The exposure and hands-on experience that MMU graduates have are much better than any other local university graduates.”

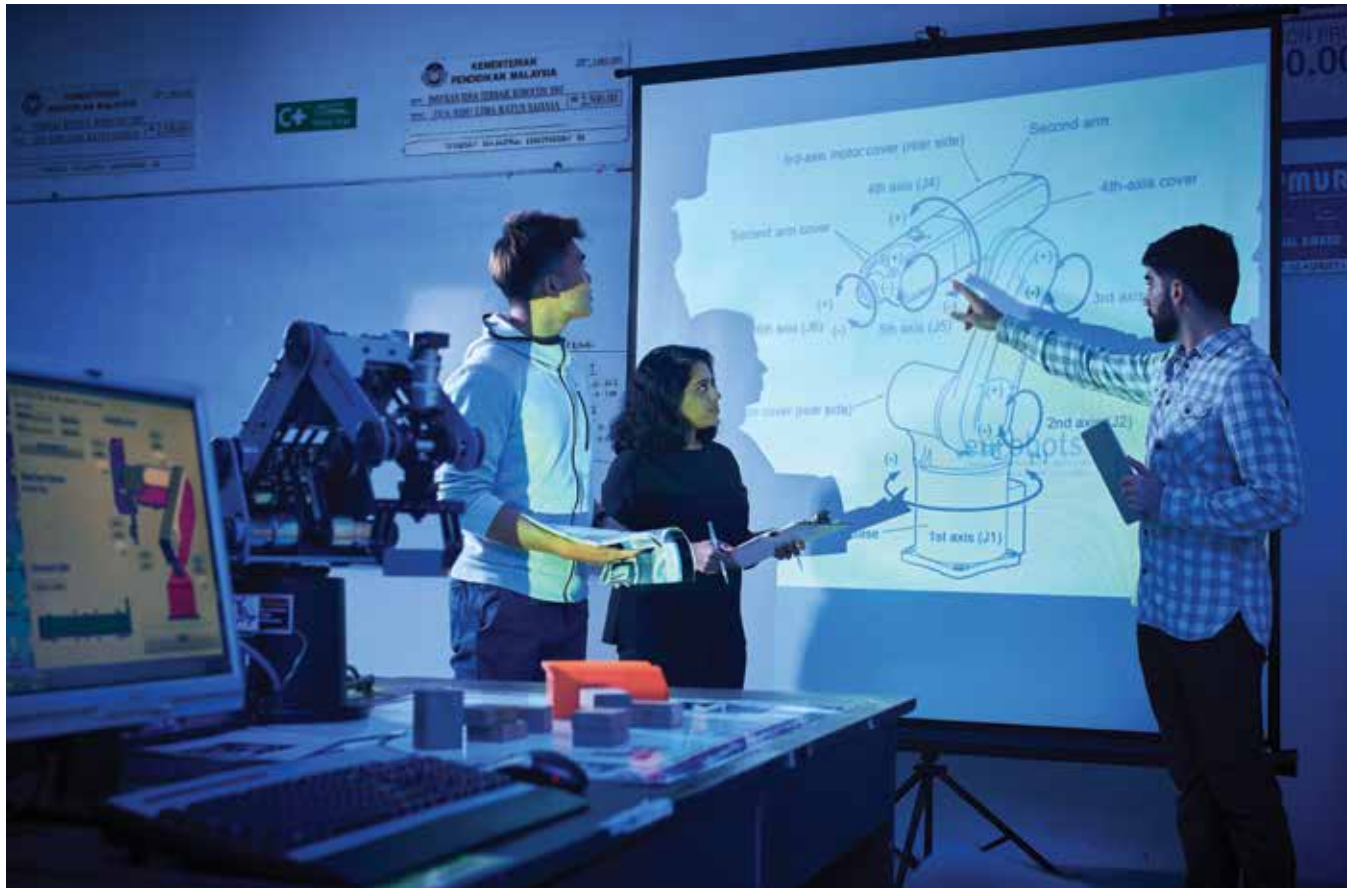
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**NOOR HELMI NONG HADZMI**  
CEO and Founder, IX Telecom Sdn. Bhd.

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# A UNIVERSITY THAT IS AN INDUSTRY TRENDSETTER

- We offer programmes which are tailored to industry's needs.
- Nearly 50% of our programmes are developed for fast growing industries.
- We produce graduates who are setting new standards in Malaysia's industries. Among our successful alumni are Mohd Nizam Abd Razak, the Creator of BoBoiBoy, who has boosted the animation industry in Malaysia and Tan Aik Keong, Director of Agmo Studio, a multi-award winning mobile app development company.



# A VIBRANT AND CONDUCTIVE CAMPUS LIFE

- Convenient and comfortable accommodation – on-campus and off-campus.
- Intelligent and high-tech labs.
- Digital libraries.
- Set studio and post-production suite.
- Over 100 clubs and societies.
- Extensive infrastructure – campus-wide Wi-Fi, health clinics, mosques, 24-hour security, food & beverage outlets and more.
- Comprehensive Sports Centre – track & field, indoor sports arena, gym as well as an olympic-sized swimming pool.



Scan this code  
to view more on  
our facilities.



# TOP MALAYSIAN PRIVATE UNIVERSITY\*



\* Top 3 in QS Asia University Rankings 2018 among private universities in Malaysia.



Ground-breaking developments in engineering have revolutionised our lives. With exciting new areas as diverse as Telecommunications, Microelectronics, Nanotechnology, Multimedia, Optical Technologies and the dynamics of social media, the career prospects for engineering graduates have never been better. Whatever field of interest you may have in engineering, a degree from the MMU will unlock your potential and kickstart your career as an engineer of the future.

*Our mission is to cultivate talents who embrace inquiry, inspiration and innovation via excellent engineering programmes, impactful research and strong industry support.*

# WHY ENGINEERING AT MMU



One of the **BEST teaching labs** in private universities, equipped with world-class research & teaching facilities

Among the **1st in Malaysia** to offer Nanotechnology



**More than 50%** teaching staff are PhD holders and industry professionals



More than 40% MMU Engineering students secure jobs **before** graduation and over 97% are employed within 6 months of graduation

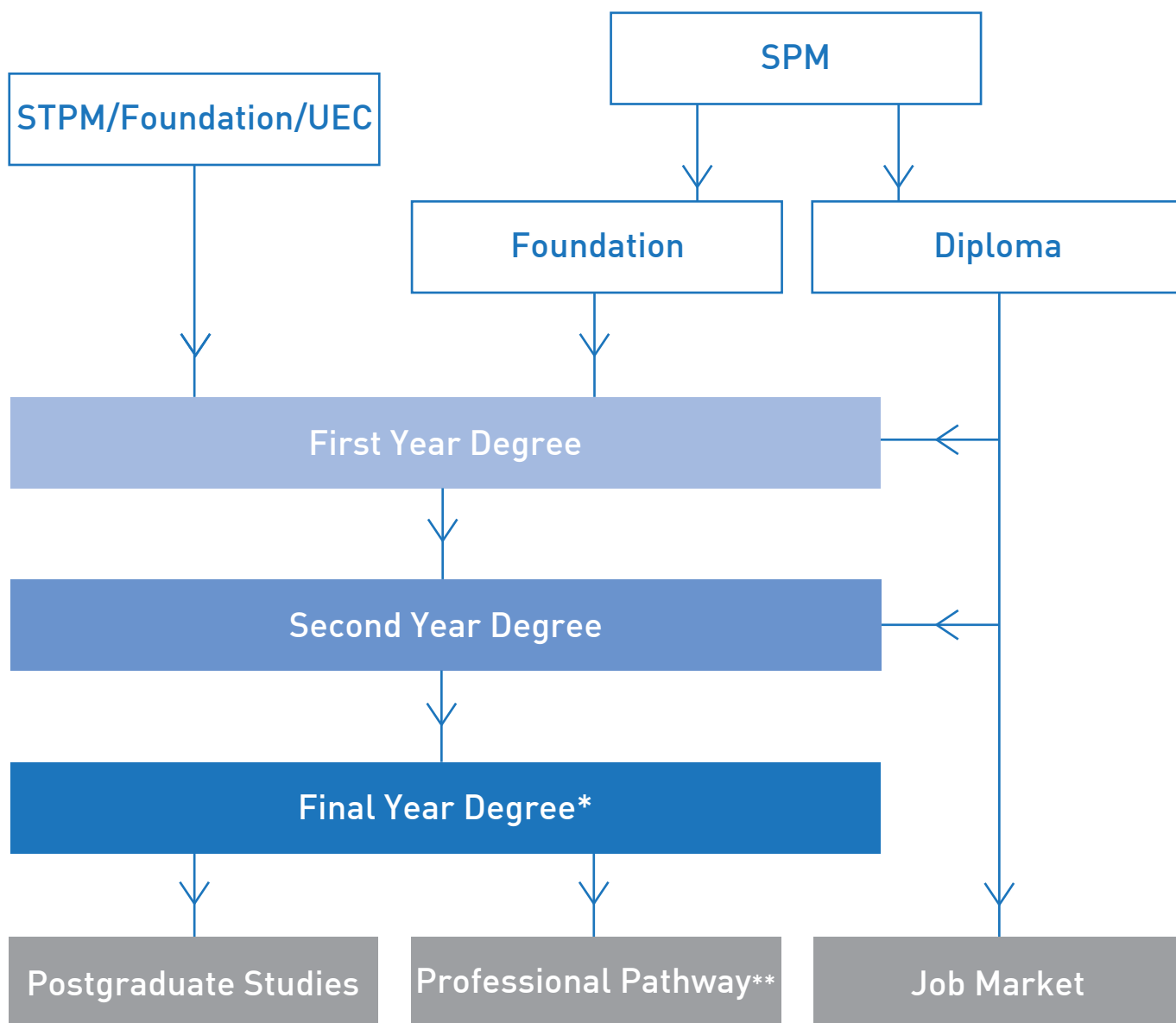


Partnerships with **Global Industry Players** – establishment of Intel Advanced Architecture Lab, Panasonic Computing Lab, Huawei Digital Lifestyle and Innovation Centre, Motorola Wireless Broadband Technology Lab and ZTE-MMU Regional Training Center

**Accreditation & Recognition** by Malaysian Qualification Agency (MQA), Engineering Accreditation Council and Board of Engineers Malaysia (BEM)

# STUDY ROUTE

There isn't just one route to discover and develop your true potential. At MMU, we cater to nearly every possibility.



\* Final year might differ depending on programme

\*\* Applicable only to Engineering courses



# FACULTY OF ENGINEERING

## Cyberjaya Campus

Located within Cyberjaya and built on an 80-hectare plot of land with all the advantages of high technology, MMU Cyberjaya is equipped with various intelligent features such as multimedia learning facilities, intelligent building systems, a digital library, and an integrated campus management system. Over 5,000 local and international students have successfully graduated from our Engineering Faculty.



Scan this code  
to view our  
faculty video.

# Foundation in Engineering

(R/010/3/0087) 12/17 [A8671]

The one-year Foundation in Engineering programme is the preferred route for many Malaysians and international students to access engineering courses in Multimedia University. Set in a campus environment that enriches their preparation for degree studies, the programme's curriculum focuses on delivering preparatory engineering subjects to equip students with strong fundamentals in order to excel with confidence. In addition to analytical and technical knowledge, the programme also focuses on equipping students with critical thinking and interpersonal skills to succeed not only in the undergraduate studies, but more importantly, as independent life-long learners.

After completion of the foundation programme you can opt for a degree programme from either Faculty of Engineering (FOE) or Faculty of Engineering & Technology (FET).

## PROGRAMME STRUCTURE FOR FOUNDATION IN ENGINEERING | FOE

### Trimester 1

- Basic Computing & Programming
- Pre-Calculus
- Trigonometry & Coordinate Geometry
- Mechanics
- Communicative English

### Trimester 2

- Calculus
- Electricity & Magnetism
- Chemistry
- Introduction to Business Management
- Critical Thinking
- Essential English

### Trimester 3

- Introduction to Probability & Statistics
- Modern Physics & Thermodynamics
- Academic English

# Bachelor of Engineering (Hons.) (Electrical)

(R/522/6/0038) 06/19 (MQA/FA4863)

The B.Eng. (Hons.) Electrical programme is a four-year engineering course that prepares students with a broad foundation in a discipline that deals with the generation, transmission, and distribution of electricity. Additionally, electrical engineers are also responsible for the design of related devices such as transformers, generators, power electronics and electric motors.

Students undertake fundamental engineering subjects such as mathematics, computing, electronics and circuit theory before progressing to core electrical subjects such as power generation, transmission and distribution, renewable energy, and energy conversion. Besides that, students are also equipped with knowledge on economics, accounting, management, law, and workplace communication. These subjects are delivered through combined classroom and laboratory work.

**Career Prospects: Design Engineer, Project Engineer, Test Engineer, Protection Engineer, Power Engineer, Sales Engineer, High Voltage Engineer, Service Engineer, Electrical Production Engineer, Product Development Engineer, Electrical and Instrument Engineer, PCB Design Engineer, QC Engineer, Field Service Engineer, Electrical Engineering Manager, M&E Engineer, or Oil & Gas Process Engineer, etc.**

## PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	Year 4
<b>Core</b>			
<ul style="list-style-type: none"> <li>Engineering Mathematics 1</li> <li>Electronics 1</li> <li>Circuit Theory</li> <li>Field Theory</li> <li>Computer &amp; Program Design</li> <li>Engineering Mathematics 2</li> <li>Electronics 2</li> <li>Energy Conversion 1</li> <li>Instrumentation &amp; Measurement Techniques</li> <li>Algorithm &amp; Data Structure</li> <li>Digital Logic Design</li> <li>Electronics 3</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Mathematics 3</li> <li>Microcontroller &amp; Microprocessor Systems</li> <li>Circuits &amp; Signals</li> <li>Electromagnetics Theory</li> <li>Electrical Engineering Materials</li> <li>Power Transmission &amp; Distribution</li> <li>Advanced Microprocessors</li> <li>Energy Conversion 2</li> <li>Engineering Mathematics 4</li> <li>Control Theory</li> </ul>	<ul style="list-style-type: none"> <li>Analog &amp; Digital Communications</li> <li>Power System Analysis</li> <li>Power Electronics</li> <li>Switchgear &amp; Protection</li> <li>Electric Power Utilisation &amp; Installation</li> <li>Renewable Energy Technology</li> <li>Capstone Project</li> <li>Industrial Training</li> </ul>	<ul style="list-style-type: none"> <li>Project</li> <li>Power Stations</li> <li>High Voltage Engineering</li> <li>Electrical Drives</li> <li>Power System Operation &amp; Control</li> </ul>
<b>Electives</b>			
			<ul style="list-style-type: none"> <li>Feedback Control Analysis &amp; Design</li> <li>Robotics &amp; Automation</li> <li>Digital Signal Processing</li> <li>Embedded System Design</li> <li>Parallel Processing &amp; Programming</li> </ul>
<b>University Subjects</b>			
	<ul style="list-style-type: none"> <li>TITAS (Local)/Bahasa Melayu Komunikasi 2 (International)</li> <li>Workplace Communications</li> </ul>	<ul style="list-style-type: none"> <li>Engineer &amp; Society</li> <li>Law for Engineers</li> <li>Hubungan Etnik (Local)/Pengajian Malaysia 3 (International)</li> <li>Project Management</li> </ul>	<ul style="list-style-type: none"> <li>Kebangsaan A/Foreign Language</li> <li>Co-Curriculum</li> <li>Business &amp; Entrepreneurship in Malaysia</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

# Bachelor of Engineering (Hons.) (Electronics)

(R/523/6/0167) 06/19 (MQA/FA4864)

The four-year B.Eng. (Hons.) Electronics programme focuses on applying theory and technology to solve real-world engineering problems. In this programme, students start off with fundamental subjects such as circuit and signal analysis, computer programming, control theory, and microprocessors. These subjects form the bedrock for more advanced and specialised topics ranging from analogue electronics, physical electronics, and semiconductor devices to embedded systems and electromagnetic interference.

Engineering knowledge is further supplemented with professional development modules such as workplace communications, management, accounting and engineering ethics. The programme is also designed to provide students with opportunities to undergo practical training in the electronics industry and to obtain research experience through undergraduate research projects.

**Career Prospects: Application Engineer, Design Solution Engineer, Research & Development Engineer, Firmware/ Embedded Software Engineer, Test Application Developer, Product Engineer, PCB Design Engineer, Process Engineer, System Integration Engineer, Computer System Architect, or Technical Marketing Engineer.**

## PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	Year 4
<b>Core</b>			
<ul style="list-style-type: none"> <li>Engineering Mathematics 1</li> <li>Circuit Theory</li> <li>Electronics 1</li> <li>Computer and Programme Design</li> <li>Field Theory</li> <li>Electronics 2</li> <li>Digital Logic Design</li> <li>Engineering Mathematics 2</li> <li>Electronics 3</li> <li>Algorithms and Data Structures</li> <li>Introduction to Machines &amp; Power Systems</li> <li>Instrumentation and Measurement Techniques</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Mathematics 3</li> <li>Microcontroller and Microprocessor Systems</li> <li>Circuits and Signals</li> <li>Electromagnetic Theory</li> <li>Physical Electronics</li> <li>Computer Organisation and Architecture</li> <li>Engineering Mathematics 4</li> <li>Control Theory</li> <li>Microelectronic Circuit</li> <li>Analysis and Design</li> <li>Electromagnetic Interference</li> </ul>	<ul style="list-style-type: none"> <li>Analog and Digital Communications</li> <li>Power Electronics</li> <li>Digital System</li> <li>Advanced Microprocessors</li> <li>Industrial Training</li> <li>Integrated VLSI Systems</li> <li>Capstone Project</li> </ul>	<ul style="list-style-type: none"> <li>Data Communications and Networking</li> <li>Processing and Fabrication Technology</li> <li>Digital Integrated Circuits</li> <li>Project</li> </ul>
<b>Electives</b>			
		<ul style="list-style-type: none"> <li>Embedded System Design</li> <li>Semiconductor Devices</li> <li>Object Oriented Programming with C++</li> </ul>	<ul style="list-style-type: none"> <li>Analog Integrated Circuits</li> <li>Operating System</li> <li>Advanced Object-oriented Design with Java</li> <li>Software Engineering</li> <li>Mobile Application Development</li> <li>VLSI System Design and Modelling Technique</li> <li>Parallel Processing &amp; Programming</li> <li>Digital Signal Processing</li> </ul>
<b>University Subjects</b>			
	<ul style="list-style-type: none"> <li>TITAS (Local)/Bahasa Melayu Komunikasi 2 (International)</li> <li>Workplace Communications</li> </ul>	<ul style="list-style-type: none"> <li>Engineer and Society Law for Engineers</li> <li>Hubungan Etnik (Local)</li> <li>Pengajian Malaysia (International)</li> <li>Project Management</li> </ul>	<ul style="list-style-type: none"> <li>Bahasa Kebangsaan A/ Foreign language</li> <li>Co-Curriculum</li> <li>Business &amp; Entrepreneurship in Malaysia</li> <li>Pengajian Malaysia 3</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

# Bachelor of Engineering (Hons.) (Electronics majoring in Telecommunications)

(R/523/6/0168) 06/19 (MQA/FA4865)

This four-year programme trains future engineers in the design, implementation and management of communication systems for processing and transmitting information, as well as creation of applications for mobile systems and Internet-based services. Students will be exposed to the technical fields of analogue and digital communications, antenna and propagation, mobile and satellite communications, telephony, information theory, data communications, electromagnetic waves, optical communications, 4G technologies and beyond.

In addition, there will be intensive training in engineering mathematics, electronics, circuit and signals, computer and microprocessor systems, data communications and networking, electromagnetics, control theory, programming and power systems. A good coverage of subjects in management, economics, accounting and law is also emphasised. Students are required to undergo industrial training, implement capstone and graduate projects to cultivate skills and capabilities in practical problem-solving, system design, project implementation and management. By so doing, graduates are better prepared to address the challenges of an increasingly complex and rapidly evolving telecommunications industry.

**Career Prospects: Telecommunications Network Engineer, Telephony Engineer, Switching and Transmission Engineer, Broadcast Engineer, Wireless Hardware Development Engineer, Radio Frequency Design Engineer, Embedded Wireless Software Engineer, Mobile Applications Developer, Telecommunication Equipment Engineer, Project Manager, or Sales & Customer Support Engineer.**

## PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	Year 4
<b>Core</b>			
<ul style="list-style-type: none"> <li>Engineering Mathematics 1</li> <li>Circuit Theory</li> <li>Electronics 1</li> <li>Computer and Program Design</li> <li>Field Theory</li> <li>Electronics 2</li> <li>Engineering Mathematics 2</li> <li>Algorithms and Data Structures</li> <li>Introduction to Machines and Power Systems</li> <li>Instrumentation and Measurement Techniques</li> <li>Digital Logic Design</li> <li>Electronics 3</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Mathematics 3</li> <li>Microcontroller and Microprocessor systems</li> <li>Circuits and Signals</li> <li>Electromagnetics Theory</li> <li>Analog Communications</li> <li>Computer Organisation and Architecture</li> <li>Information Theory and Error Coding</li> <li>Antenna and Propagation</li> <li>Engineering Mathematics 4</li> <li>Data Communications and Networking</li> </ul>	<ul style="list-style-type: none"> <li>Digital Communications</li> <li>Communications Networks</li> <li>Digital Signal Processing</li> <li>Embedded System Design</li> <li>Capstone Project</li> <li>Industrial Training</li> </ul>	<ul style="list-style-type: none"> <li>Project</li> <li>Mobile and Satellite Communications</li> <li>Advanced Networking Techniques</li> <li>Control Theory</li> <li>Optoelectronics and Optical Communications</li> </ul>
<b>Electives</b>			
		<ul style="list-style-type: none"> <li>Java Technology</li> <li>Random Signal and Network Analysis</li> <li>RF Measurement Principles</li> <li>Object Oriented Programming with C++</li> <li>Security and Cryptography</li> <li>Electromagnetic Interference</li> <li>Mobile Application Development</li> </ul>	<ul style="list-style-type: none"> <li>Parallel Processing and Programming</li> <li>VLSI System Design and Modeling Technique</li> <li>RF Circuit Design</li> </ul>
<b>University Subjects</b>			
	<ul style="list-style-type: none"> <li>TITAS (Local)/Bahasa Melayu Komunikasi 2 (International)</li> <li>Workplace Communications</li> </ul>	<ul style="list-style-type: none"> <li>Engineer &amp; Society</li> <li>Law for Engineers</li> <li>Hubungan Etnik (Local)/Pengajian Malaysia 3 (International)</li> <li>Project Management</li> </ul>	<ul style="list-style-type: none"> <li>Kebangsaan A/Foreign Language</li> <li>Co-Curriculum</li> <li>Business &amp; Entrepreneurship in Malaysia</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

# Bachelor of Engineering (Hons.) (Electronics majoring in Computer)

(R/523/6/0166) 06/19 (MQA/FA4866)

For students aiming towards a professional career in computer systems and information technology, this four-year computer engineering programme provides a complete undergraduate training in the design and development of both the hardware and software aspects of computers and digital systems. The curriculum encompasses specialised training in computer organisation and architecture, data science, operating systems, data communications and networking, high-performance computing, artificial intelligence, microprocessor system, computer security, virtual reality and object-oriented programming.

Not neglected are rigorous grounding in engineering fundamentals such as circuit and signal analysis, field theory, electronics, control theory, power systems, machines and engineering mathematics. Courses in basic management, economics, accounting and law are included to ensure that graduates are well rounded and marketable to future employers. Capping off the programme in the third and fourth years are the industrial training, capstone and graduate projects, which serve to cultivate skills and capabilities in research, system design, practical problem solving and project management.

**Career Prospects: Computer Software Engineer, Cybersecurity Engineer, Computer Network Architect, Big data and Cloud-based Computing Engineer, Internet of Things (IoT) Expert, Systems architecture Designer, or Robotics and Automation Engineer.**

## PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	Year 4
<b>Core</b>			
<ul style="list-style-type: none"> <li>Engineering Mathematics 1</li> <li>Electronics 1</li> <li>Circuit Theory</li> <li>Field Theory</li> <li>Computer and Programme Design</li> <li>Engineering Mathematics 2</li> <li>Electronics 2</li> <li>Introduction to Machines and Power Systems</li> <li>Instrumentation and Measurement Techniques</li> <li>Algorithms and Data Structures</li> <li>Digital Logic Design</li> <li>Electronics 3</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Maths 3</li> <li>Microcontroller and Microprocessor Systems</li> <li>Circuits and Signals</li> <li>Electromagnetic Theory</li> <li>Computer Organisation and Architecture</li> <li>Database Systems</li> <li>Object Oriented Programming with C++</li> <li>Digital Signal Processing</li> <li>Engineering Mathematics 4</li> <li>Data Communications and Networking</li> </ul>	<ul style="list-style-type: none"> <li>Analog and Digital Communications</li> <li>Operating Systems</li> <li>Advanced Microprocessors</li> <li>Advanced Computer Architecture and Parallel Computing</li> <li>Security and Cryptography</li> <li>Capstone Project</li> <li>Industrial Training</li> </ul>	<ul style="list-style-type: none"> <li>Multimedia Technology and Applications</li> <li>Control Theory</li> <li>Digital Computer Design</li> <li>Project</li> </ul>
<b>Electives</b>			
		<ul style="list-style-type: none"> <li>Compiler Construction</li> <li>Software Engineering</li> <li>Computer Graphics and Virtual Reality</li> </ul>	<ul style="list-style-type: none"> <li>Digital Image and Video Processing</li> <li>Advanced Object-oriented Design with Java</li> <li>Distributed Information Systems</li> <li>Embedded System Design</li> <li>Mobile Application Development</li> <li>Parallel Processing and Programming</li> </ul>
<b>University Subjects</b>			
	<ul style="list-style-type: none"> <li>TITAS (Local)/Bahasa Melayu Komunikasi 2 (International)</li> <li>Workplace Communications</li> <li>Pengajian Malaysia 3</li> </ul>	<ul style="list-style-type: none"> <li>Engineer &amp; Society Law for Engineers</li> <li>Hubungan Etnik (Local)/Pengajian Malaysia (International)</li> <li>Project Management</li> </ul>	<ul style="list-style-type: none"> <li>Bahasa Kebangsaan A/ Foreign Language</li> <li>Co-Curriculum</li> <li>Business &amp; Entrepreneurship in Malaysia</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.



# Bachelor of Engineering (Hons.) (Electronics majoring in Optical Engineering)

(R2/523/6/0296) 05/22 (MQA/FA4862)

The Bachelor of Engineering (Hons.) Electronics degree majoring in Optical Engineering programme is accredited by the Engineering Accreditation Council (EAC) and recognised by the Board of Engineers (BEM) Malaysia. This four-year undergraduate programme is designed to support industry needs specifically in the area of electronics, photonics, laser technology, photovoltaic systems, optical fibre technology, optical communication systems, solid-state (LED) lighting technology, display technology, electronics and optoelectronics packaging technology.

In view of that, students will undertake subjects related to basic electronics, digital logic design, circuit and signal analysis, computer programming, power systems and machines, microprocessor systems and interfacing, and computer networking and data communications. Students of this major will also take specialised subjects exclusive to this programme such as laser technology, optical waveguides, optoelectronics devices, optical communications systems, optical metrology and testing, fabrication and packaging technology and optical signal processing.

**Career Prospects: Technical or managerial leadership role in electronics engineering specialised in optical engineering or in any field benefiting from their engineering knowledge, such as electronics, computer engineering, semiconductors, optical communications, optoelectronics, laser technology, photovoltaic, solid-state lighting, research and academics.**

## PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	Year 4
<b>Core</b>			
<ul style="list-style-type: none"> <li>• Engineering Mathematics 1</li> <li>• Electronics 1</li> <li>• Circuit Theory</li> <li>• Field Theory</li> <li>• Computer and Programme Design</li> <li>• Engineering Mathematics 2</li> <li>• Electronics 2</li> <li>• Introduction to Machines and Power Systems</li> <li>• Algorithm and Data Structure</li> <li>• Instrumentation and Measurement Techniques</li> <li>• Digital Logic Design</li> <li>• Electronics 3</li> </ul>	<ul style="list-style-type: none"> <li>• Engineering Mathematics 3</li> <li>• Microcontroller and Microprocessor Systems</li> <li>• Circuits and Signals</li> <li>• Electromagnetic Theory</li> <li>• Computer Organisation and Architecture</li> <li>• Advanced Microprocessors</li> <li>• Fundamental of Optics</li> <li>• Physical Electronics</li> <li>• Engineering Mathematics 4</li> <li>• Control Theory</li> </ul>	<ul style="list-style-type: none"> <li>• Analog and Digital Communications</li> <li>• Optoelectronic Devices</li> <li>• Fabrication and Packaging Technology</li> <li>• Digital Signal Processing</li> <li>• Optical Metrology and Testing</li> <li>• Capstone Project</li> <li>• Industrial Training</li> </ul>	<ul style="list-style-type: none"> <li>• Optical Communication Systems</li> <li>• Optical Waveguide and Devices</li> <li>• Laser Technology and Applications</li> <li>• Data Communications and Computer Networking</li> <li>• Optical Signal Processing</li> <li>• Project</li> </ul>
<b>Electives</b>			
			<ul style="list-style-type: none"> <li>• Photovoltaic Devices and Systems</li> <li>• Solid State Lighting</li> <li>• Multimedia Technology and Applications</li> </ul>
<b>University Subjects</b>			
	<ul style="list-style-type: none"> <li>• TITAS (Local)/Bahasa Melayu Komunikasi 2 (International)</li> <li>• Workplace Communications</li> </ul>	<ul style="list-style-type: none"> <li>• Engineer &amp; Society</li> <li>• Law for Engineers</li> <li>• Hubungan Etnik (Local)/Pengajian Malaysia 3 (International)</li> <li>• Project Management</li> </ul>	<ul style="list-style-type: none"> <li>• Kebangsaan A/Foreign Language</li> <li>• Co-Curriculum</li> <li>• Business &amp; Entrepreneurship in Malaysia</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

# Bachelor of Engineering (Hons.) (Electronics majoring in Nanotechnology)

(R2/523/6/0010) 05/20 (MQA/FA3563)

For students planning for professional careers in the fields of microelectronics and nanoelectronics, the four-year nanotechnology programme provides a complete undergraduate training in electronics and nanoelectronics-related fields, such as nanomaterials, nanosciences, nanofabrication technology, nanoelectronic devices, MEMS/NEMS, and diagnostic technology.

In addition, students are also exposed to basic engineering training in circuit and signal analysis, field theory, electronics, control theory, digital logic, communications and engineering mathematics. To better prepare the students for a professional career in engineering, courses in basic management, economics, accounting and law are also included. This programme also provides students with industrial experience and research training by requiring them to complete industrial training and graduate projects.

**Career Prospects: Research Engineer/Scientist, Test and Characterisation Engineer, Process and Device Engineer, Product Reliability Engineer, Electronics Engineer, Process Engineer, Quality Control/Assurance Engineer, Failure Analysis Engineer, Field Application Engineer, Telecommunications Engineer, or R&D Engineer.**

## PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	Year 4
<b>Core</b>			
<ul style="list-style-type: none"> <li>Engineering Mathematics 1</li> <li>Electronics 1</li> <li>Circuit Theory</li> <li>Field Theory</li> <li>Computer and Programme Design</li> <li>Engineering Mathematics 2</li> <li>Electronics 2</li> <li>Introduction to Machines and Power Systems</li> <li>Instrumentation and Measurement Techniques</li> <li>Algorithms and Data Structures</li> <li>Digital Logic Design</li> <li>Electronics 3</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Mathematics 3</li> <li>Microcontroller and Microprocessor Systems</li> <li>Circuits and Signals</li> <li>Electromagnetic Theory</li> <li>Computer Organisation and Architecture</li> <li>Microelectronic Circuit Analysis and Design</li> <li>Advanced Microprocessors</li> <li>Solid State Electronics</li> <li>Engineering Mathematics 4</li> <li>Control Theory</li> </ul>	<ul style="list-style-type: none"> <li>Analog and Digital Communications</li> <li>Optoelectronic Devices</li> <li>Semiconductor Devices</li> <li>Advanced Fabrication Technology</li> <li>Nano-Science</li> <li>Capstone Project</li> </ul>	<ul style="list-style-type: none"> <li>Digital Integrated Circuits</li> <li>Diagnostic Technologies</li> <li>Project</li> <li>N/MEMS</li> <li>Data Communications and Computer Networking</li> <li>Nanoelectronic Materials and Devices</li> </ul>
<b>Electives</b>			
		<ul style="list-style-type: none"> <li>Multimedia Technology and Applications</li> <li>Power Electronics</li> </ul>	
<b>University Subjects</b>			
	<ul style="list-style-type: none"> <li>TITAS (Local)/Bahasa Melayu Komunikasi 2 (International)</li> <li>Workplace Communications</li> </ul>	<ul style="list-style-type: none"> <li>Engineer &amp; Society</li> <li>Law for Engineers</li> <li>Hubungan Etnik (Local)/Pengajian Malaysia 3 (International)</li> <li>Project Management</li> </ul>	<ul style="list-style-type: none"> <li>Kebangsaan A/Foreign Language</li> <li>Co-Curriculum</li> <li>Business &amp; Entrepreneurship in Malaysia</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.



# FACULTY OF ENGINEERING & TECHNOLOGY

## Melaka Campus

At the Faculty of Engineering & Technology, we inculcate a strong research culture and promote R&D collaborations with internal and external parties to enable learning innovation.



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# Foundation in Engineering

(R2/010/3/0450) 03/22 (A7857)

The one-year Foundation in Engineering programme is the preferred route for many Malaysians and international students to access engineering courses in Multimedia University. Set in a campus environment that enriches their preparation for degree studies, the programme’s curriculum focuses on delivering preparatory engineering subjects to equip students with strong fundamentals in order to excel with confidence. In addition to analytical and technical knowledge, the programme also focuses on equipping students with critical thinking and interpersonal skills to succeed not only in the undergraduate studies, but more importantly, as independent life-long learners.

After completion of the foundation programme, you can opt for a degree programme from either Faculty of Engineering (FOE) or Faculty of Engineering and Technology (FET).



## PROGRAMME STRUCTURE FOR FOUNDATION IN ENGINEERING | FET

Trimester 1	Trimester 2	Trimester 3
<ul style="list-style-type: none"> <li>• Communicative English</li> <li>• Algebra</li> <li>• Mechanics</li> <li>• Physics Lab 1</li> <li>• Computer Applications &amp; Programming</li> <li>• General Chemistry</li> <li>• Trigonometry &amp; Geometry</li> </ul>	<ul style="list-style-type: none"> <li>• Essential English</li> <li>• Electricity &amp; Magnetism</li> <li>• Physics Lab 2</li> <li>• Fundamentals of Business Management</li> <li>• Critical Thinking</li> <li>• Calculus</li> </ul>	<ul style="list-style-type: none"> <li>• Academic English</li> <li>• Modern Physics &amp; Thermodynamics</li> <li>• Introduction to Probability &amp; Statistics</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

# Bachelor of Engineering (Hons.) (Electronics majoring in Telecommunications)

(R/523/6/0100) 12/17 (MQA/FA8758)

This four-year programme trains future engineers in the design, implementation and management of communication systems for processing and transmitting information, as well as creation of applications for mobile systems and Internet-based services. Students will be exposed to the technical fields of analogue and digital communications, antenna and propagation, mobile and satellite communications, telephony, information theory, data communications, electromagnetic waves, optical communications, 4G technologies and beyond.

In addition, there will be intensive training in engineering mathematics, electronics, circuit and signals, computer and microprocessor systems, data communications and networking, electromagnetics, control theory, programming and power systems. A good coverage of subjects in management, economics, accounting and law is also emphasised.

**Career Prospects: Telecommunications Network Engineer, Telephony Engineer, Switching and Transmission Engineer, Broadcast Engineer, Wireless Hardware Development Engineer, Radio Frequency Design Engineer, Embedded Wireless Software Engineer, Mobile Applications Developer, Telecommunication Equipment Engineer, Project Manager, or Sales & Customer Support Engineer.**

## PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	Year 4
<b>Core</b>			
<ul style="list-style-type: none"> <li>Computer and Program Design</li> <li>Algorithm &amp; Data Structure</li> <li>Circuit Theory</li> <li>Field Theory</li> <li>Engineering Mathematics I</li> <li>Engineering Mathematics II</li> <li>Electronics I</li> <li>Electronics II</li> <li>Digital Logic Design</li> <li>Electronics III</li> <li>Instrumentation &amp; Measurement Techniques</li> <li>Introduction to Machines &amp; Power Systems</li> </ul>	<ul style="list-style-type: none"> <li>Computer Organisation &amp; Architecture</li> <li>Data Communications &amp; Computer Networking</li> <li>Microcontroller &amp; Microprocessor Systems</li> <li>Circuits &amp; Signals</li> <li>Engineering Mathematics III</li> <li>Electromagnetics Theory</li> <li>Control Theory</li> <li>Analog Communications</li> <li>Information Theory &amp; Error Coding</li> </ul>	<ul style="list-style-type: none"> <li>Communications Electronics</li> <li>Project Management for Engineers</li> <li>Antenna &amp; Propagation</li> <li>Electromagnetic Interference</li> <li>Design Project</li> <li>Multimedia &amp; Communications Networks</li> <li>Digital Communications</li> <li>Industrial Training</li> </ul>	<ul style="list-style-type: none"> <li>Mobile &amp; Satellite Communications</li> <li>Digital Signal Processing</li> <li>Project</li> </ul>
<b>Elective Modules (Choose 3 Subjects)</b>			
<ul style="list-style-type: none"> <li>Knowledge-based Systems</li> <li>Advanced Microprocessors</li> <li>Embedded System Design</li> <li>Practical FPGA Design &amp; Interfacing</li> <li>Optoelectronics &amp; Optical Communications</li> </ul>	<ul style="list-style-type: none"> <li>Telemedicine Technology</li> <li>Java Technology</li> <li>Object Oriented Programming with C++</li> <li>Random Processes &amp; Queueing Theory</li> <li>Semiconductor Packaging &amp; Test</li> <li>Imaging Radar System</li> <li>Digital Wireless Communications</li> </ul>	<ul style="list-style-type: none"> <li>Parallel Processing &amp; Programming</li> <li>Radar System Design &amp; Analysis</li> <li>Data &amp; Multimedia Networking</li> </ul>	
<b>University Subjects and Mata Pelajaran Umum (MPU)</b>			
<b>Communication Skills/Law/Ethics</b> <ul style="list-style-type: none"> <li>Workplace Communications</li> <li>Law for Engineers</li> <li>Engineer and Society</li> </ul>	<b>MPU U1</b> <ul style="list-style-type: none"> <li>Tamadun Islam &amp; Tamadun Asia (Local)</li> <li>Hubungan Etnik (Local)</li> <li>Bahasa Komunikasi 2 (International)</li> <li>Pengajian Malaysia 3 (International)</li> </ul>	<b>MPU U2</b> <ul style="list-style-type: none"> <li>Bahasa Kebangsaan A / Any subjects in U2 (Local)</li> <li>Any subjects in U2 (International)</li> </ul>	<b>MPU U3</b> <ul style="list-style-type: none"> <li>Business and Entrepreneurship in Malaysia</li> </ul> <b>MPU U4</b> <ul style="list-style-type: none"> <li>Co-Curriculum</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

# Bachelor of Engineering (Hons.) (Electronics majoring in Robotics & Automation)

(R2/523/6/0035) 11/21 (MQA/FA4749)

The Faculty of Engineering and Technology offers an undergraduate programme leading to the Bachelor of Engineering (Electronics) degree majoring in Robotics and Automation. For students planning on professional careers in the fields of industry automation, this four-year engineering programme provides complete undergraduate training in robotics and automation fields such as advanced robotics, machine vision, applied dynamics, knowledge system and neural computing, digital control system, microprocessor system, automation and power technology.

In addition, the students are also exposed to basic engineering training in circuit and signal analysis, field theory, electronics, control theory, power systems, machines, communications and engineering mathematics. To better prepare the students for the engineering professional career, courses in basic management, economics, accounting and law are also included. This programme also provides students with industrial experience and research training by requiring students to complete industrial training and graduation projects.

**Career Prospects: Robotics Engineer, Industrial Automation, Control Engineer, Automotive Engineer, Manufacturing Engineer, Production Engineer, Mechatronics Engineer, Engineering Academician or Researcher.**

## PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	Year 4
<b>Core</b>			
<ul style="list-style-type: none"> <li>• Computer and Programme Design</li> <li>• Algorithm &amp; Data Structure</li> <li>• Circuit Theory</li> <li>• Field Theory</li> <li>• Engineering Mathematics I</li> <li>• Engineering Mathematics II</li> <li>• Electronics I</li> <li>• Electronics II</li> <li>• Electronics III</li> <li>• Digital Logic Design</li> <li>• Instrumentation &amp; Measurement Techniques</li> <li>• Introduction to Machines &amp; Power Systems</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Organisation &amp; Architecture</li> <li>• Microcontroller &amp; Microprocessor Systems</li> <li>• Circuits &amp; Signals</li> <li>• Engineering Mathematics III</li> <li>• Power Technology</li> <li>• Electromagnetic Theory</li> <li>• Control Theory</li> <li>• Engineering Mechanics</li> <li>• Analog &amp; Digital Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Multimedia Technology &amp; Applications</li> <li>• Project Management for Engineers</li> <li>• Design Project</li> <li>• Robotics</li> <li>• Automation</li> <li>• Machine Vision</li> <li>• Industrial Training</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing &amp; Operation Management</li> <li>• Advanced Robotics</li> <li>• Project</li> </ul>
<b>Elective Modules (Choose 4 Subjects)</b>			
Elective 1 <ul style="list-style-type: none"> <li>• Data Communications &amp; Computer Networking</li> <li>• Knowledge-based Systems</li> <li>• Communications Electronics</li> <li>• Semiconductor Packaging &amp; Test</li> <li>• Theory of Machines</li> <li>• Electromagnetic Interference</li> <li>• Introduction to CIM</li> <li>• Digital Signal Processing</li> </ul>		Elective 2 <ul style="list-style-type: none"> <li>• Java Technology</li> <li>• Advanced Microprocessors</li> <li>• Embedded System Design</li> <li>• Object Oriented Programming with C++</li> <li>• Practical FPGA Design and Interfacing</li> <li>• Quality Engineering</li> <li>• Digital Control Systems</li> </ul>	
<b>University Subjects and Mata Pelajaran Umum (MPU)</b>			
<i>Communication Skills/Law/Ethics</i> <ul style="list-style-type: none"> <li>• Workplace Communications</li> <li>• Law for Engineers</li> <li>• Engineer and Society</li> </ul>	<i>MPU U1</i> <ul style="list-style-type: none"> <li>• Tamadun Islam &amp; Tamadun Asia (Local)</li> <li>• Hubungan Etnik (Local)</li> <li>• Bahasa Komunikasi 2 (International)</li> <li>• Pengajian Malaysia 3 (International)</li> </ul>	<i>MPU U2</i> <ul style="list-style-type: none"> <li>• Bahasa Kebangsaan A / Any subjects in U2 (Local)</li> <li>• Any subjects in U2 (International)</li> </ul>	<i>MPU U3</i> <ul style="list-style-type: none"> <li>• Business and Entrepreneurship in Malaysia</li> </ul> <i>MPU U4 (FET)</i> <ul style="list-style-type: none"> <li>• Co-Curriculum</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

# Bachelor of Engineering (Hons.) (Mechanical)

(R2/521/6/0027) 10/20 (MQA/FA8758)

B.Eng (Hons.) Mechanical is one of the top in-demand disciplines of engineering. Mechanical engineers are relatively versatile and knowledgeable in various fields (both technical and managerial), which increase their value and demand in the job market. Students enrolling in this course will be equipped with the knowledge and skills to apply principles and fundamentals in Engineering Mathematics, Applied Mechanics, Thermal/Fluid Sciences, and Material Science to solve complex engineering problems.

**Career Prospects: Mechanical Engineer, Manufacturing/Operations Engineer, Equipment Engineer, Oil & Gas Engineer, Energy Engineer, Researcher Engineer, Project Engineer.**

## PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	Year 4
<b>Core</b>			
<ul style="list-style-type: none"> <li>• Computer &amp; Programme Design</li> <li>• Engineering Mathematics I</li> <li>• Engineering Mathematics II</li> <li>• Basic Electrical Technology</li> <li>• Applied Statics</li> <li>• Principles of Thermodynamics</li> <li>• Strength of Materials</li> <li>• Applied Dynamics</li> <li>• Materials Sciences</li> <li>• Workshop Technology</li> <li>• Engineering Drawing I</li> <li>• Measurement and Instrumentation</li> </ul>	<ul style="list-style-type: none"> <li>• Engineering Mathematics III</li> <li>• Introduction to Electrical Power and Machines</li> <li>• Fluid Mechanics</li> <li>• Manufacturing and Operations Management</li> <li>• Applied Thermodynamics</li> <li>• Engineering Drawing II</li> <li>• Mechanical Design I</li> <li>• Mechanics of Materials</li> <li>• Control Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Microprocessor Systems &amp; Interfacing</li> <li>• Fluid Dynamics</li> <li>• CAD/CAM</li> <li>• Computational Method for Mechanical Engineering</li> <li>• Mechanical Design II</li> <li>• Heat Transfer</li> <li>• Integrated Design Project</li> <li>• Industrial Training</li> </ul>	<ul style="list-style-type: none"> <li>• Theory of Machines</li> <li>• Industrial Management</li> <li>• Mechanical Vibrations</li> <li>• Project</li> </ul>
<b>Elective Modules (Choose 3 Subjects)</b>			
<ul style="list-style-type: none"> <li>• Semiconductor Packaging &amp; Test</li> <li>• Energy Technologies</li> <li>• Finite Element Method</li> <li>• Quality Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Tribology</li> <li>• Operations Research</li> <li>• Computational Fluid Dynamics</li> <li>• Robotics and Automation</li> </ul>	<ul style="list-style-type: none"> <li>• Materials Engineering</li> <li>• Ergonomic and Human Factor</li> <li>• Heating, Ventilation and Air Conditioning Systems</li> <li>• Internal Combustion Engines</li> <li>• Quality Management</li> </ul>	
<b>University Subjects and Mata Pelajaran Umum (MPU)</b>			
<p><i>Communication Skills/Law/Ethics</i></p> <ul style="list-style-type: none"> <li>• Workplace Communications</li> <li>• Law for Engineers</li> <li>• Engineer and Society</li> </ul>	<p><i>MPU U1</i></p> <ul style="list-style-type: none"> <li>• Tamadun Islam &amp; Tamadun Asia (Local)</li> <li>• Hubungan Etnik (Local)</li> <li>• Bahasa Komunikasi 2 (International)</li> <li>• Pengajian Malaysia 3 (International)</li> </ul>	<p><i>MPU U2</i></p> <ul style="list-style-type: none"> <li>• Bahasa Kebangsaan A / Any subjects in U2 (Local)</li> <li>• Any subjects in U2 (International)</li> </ul>	<p><i>MPU U3</i></p> <ul style="list-style-type: none"> <li>• Business and Entrepreneurship in Malaysia</li> </ul> <p><i>MPU U4 (FET)</i></p> <ul style="list-style-type: none"> <li>• Co-Curriculum</li> </ul>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

# Diploma in Electronic Engineering

(R/523/4/0203) 01/20 [A5832]

This course suits those who are interested in mainstream electronic design and support. The diploma programme is designed to provide students with a good understanding of the electronics-related fields as well as offer opportunities to undergo practical training in the industry to obtain hands-on experience in the final year projects.

After completion of the diploma programme, you can opt for a related degree programme from either Faculty of Engineering (FOE) or Faculty of Engineering and Technology (FET).

## PROGRAMME STRUCTURE

### Trimester 1

- Engineering Mathematics 1
- Electric Circuit
- Computer Applications for Engineering
- English
- Analog Electronics 1

### Trimester 2

- Engineering Mathematics 2
- Digital Electronics
- Analog Electronics 2
- Contemporary Management & Entrepreneurship
- U4

### Trimester 3

- Analog Electronics 3
- Field Theory
- U2

### Trimester 4

- Computer Programming
- Electrical Measurement and Instrumentation Technique
- Network Analysis
- Industrial Electronics
- U3

### Trimester 5

- Microcontroller Technology
- Power Electronics
- Project - Part 1
- Effective Communication Skills
- U1

### Trimester 6

- Industrial Training

### Trimester 7

- Analog and Digital Communication System
- Electrical Machines and Power Systems
- Project - Part 2
- Elective

### University Subjects

U1 – Pengajian Malaysia 2 (Local) / Bahasa Melayu Komunikasi 1 (International)

U2 – Basic Academic Writing / Grooming and Professional Etiquette / Chinese for Basic Communication / Korean for Basic Communication / French for Basic Communication / Bahasa Kebangsaan A

U3 – Introduction to Cultural Practices in Malaysia / Fundamental of Islamic

Leadership in Malaysia / Family and Society in Malaysia

U4 – Personal Social Responsibility



# MINIMUM ENTRY REQUIREMENTS

## Foundation in Engineering

- Pass SPM / O-level or its equivalent with minimum grade C in at least five (5) subjects, inclusive of English, Mathematics and one Engineering-related subjects; OR
- Pass UEC with minimum grade B in at least four (4) subjects inclusive of Mathematics, English and one Engineering-related subjects; OR
- Other equivalent qualification recognised by the Malaysian Government.

## Diploma in Electronic Engineering

- Pass SPM / O-level or its equivalent with minimum grade C in at least four (4) subjects, inclusive of Mathematics and one Science / Engineering subject and a pass in English; OR
- Pass UEC with minimum grade B in at least three (3) subjects inclusive of Mathematics and one Science subject; OR
- Pass Certificate in a related field from a recognised institution.

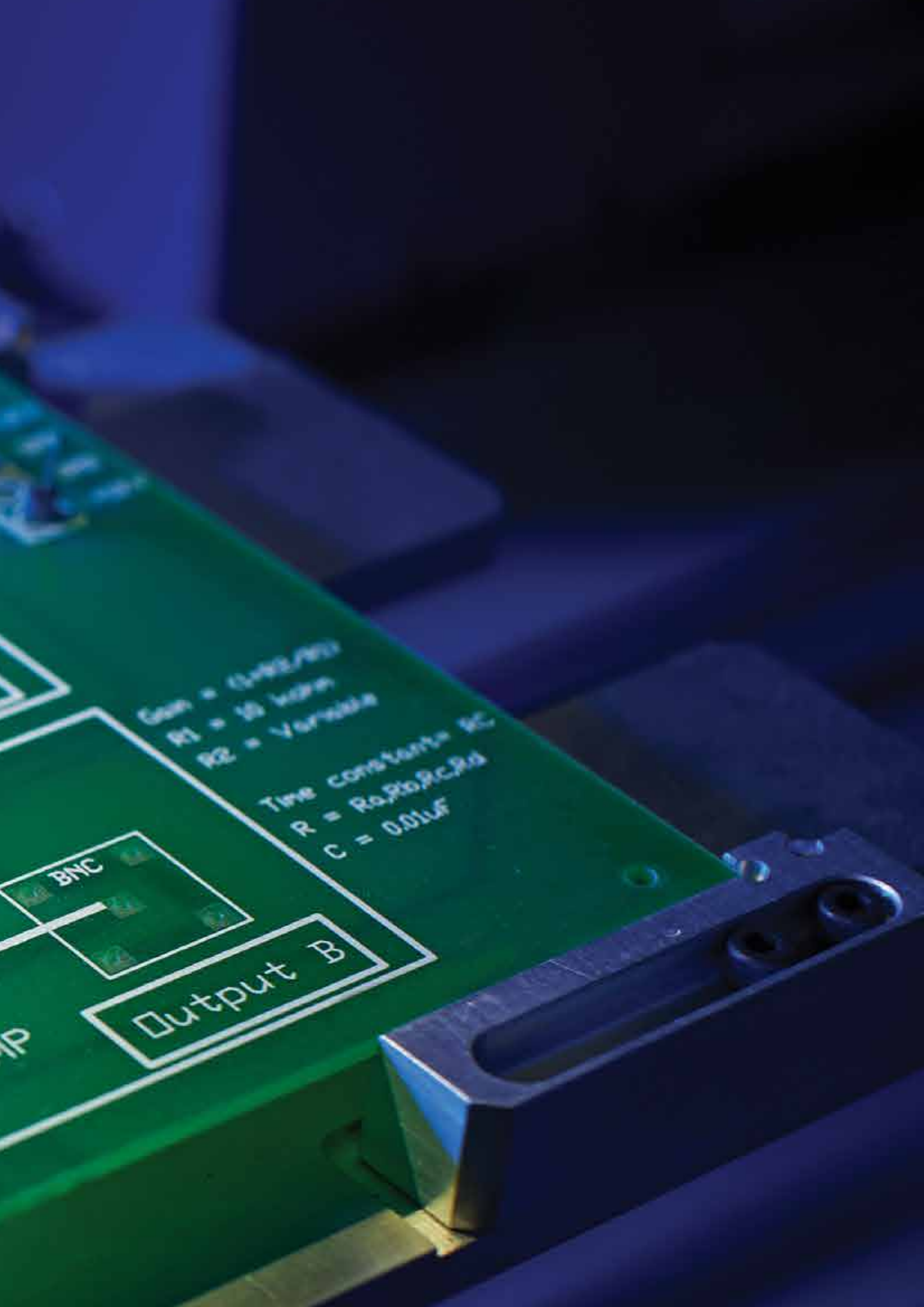
## Bachelor of Electrical (Hons.) / Electronics (Hons.) / Mechanical Engineering (Hons.)

- Pass Foundation / Matriculation in a related field from a recognised institution; OR
- Pass STPM / A-Level or its equivalent with three (3) Principals inclusive of Mathematics and Physics; OR
- Pass UEC with minimum grade B in at least five (5) subjects inclusive of Mathematics and Physics; OR
- Pass Diploma in a related field from a recognised institution.

### English Entry Requirement for International Students:

- All programmes offered by Faculty of Engineering and Faculty of Engineering & Technology require a minimum score of 5.0 in IELTS or its equivalent.





Gain =  $1 + R_2/R_1$   
 $R_1 = 10 \text{ k}\Omega$   
 $R_2 = \text{Variable}$

Time constants  $\tau_c$   
 $R = R_a, R_b, R_c, R_d$   
 $C = 0.01 \mu\text{F}$

BNC

Output B

IP

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