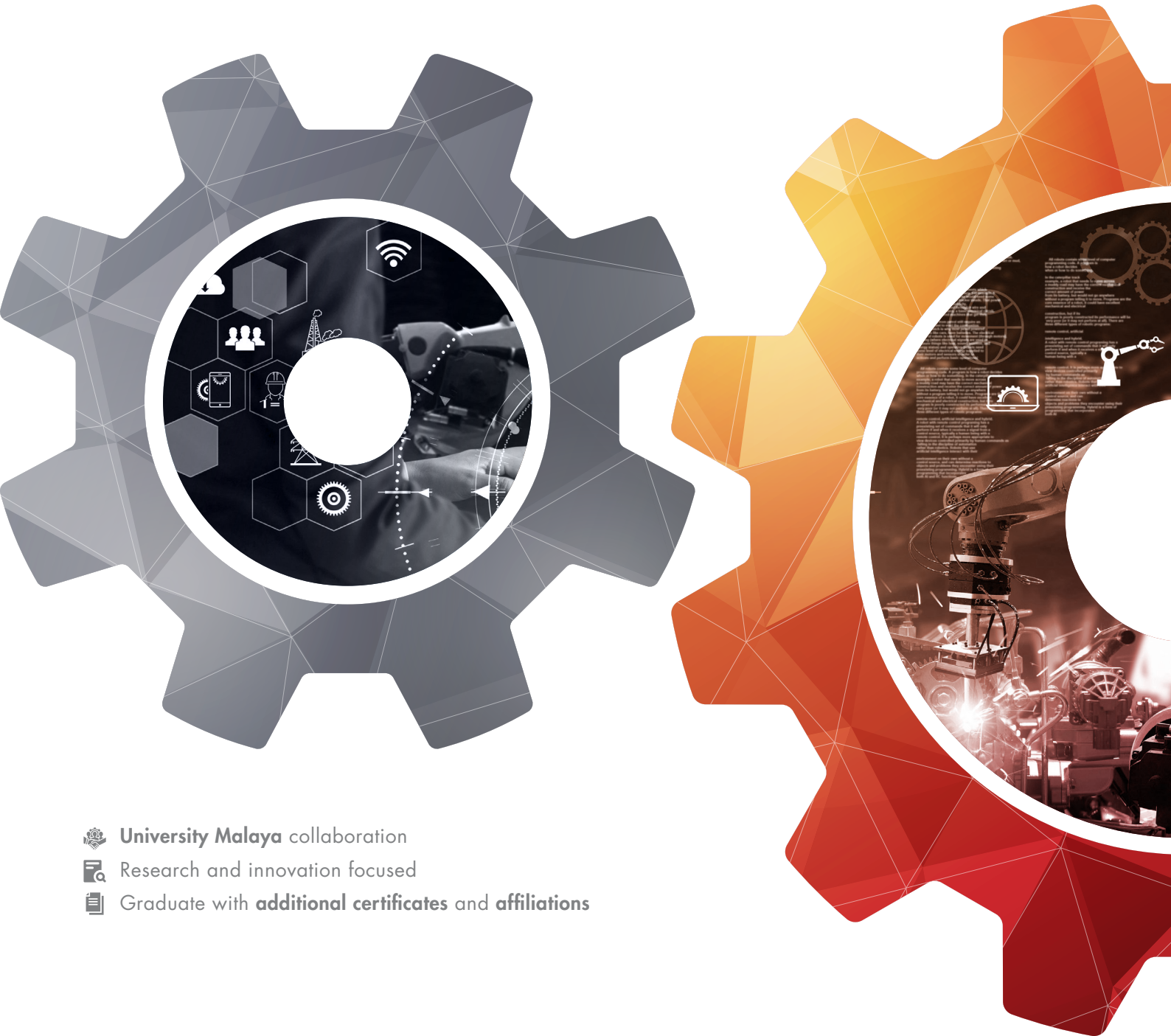







SEGi
Group of
Colleges

Towards
R4.0

ENGINEERING



-  **University Malaya** collaboration
-  Research and innovation focused
-  Graduate with **additional certificates** and **affiliations**

in collaboration with



CHAMPIONING 3H TRANSFORMATIVE LEARNING

At SEGi, we champion the 3H Transformative Learning to cultivate future-proof graduates. The education of the Head, the Heart and the Hands is a holistic learning approach in transforming future leaders:



HEAD (Knowledge)

Providing the latest curriculum co-designed with international partner universities, local industry practitioners and experts. Our proven teaching and learning process has seen over 130,000 graduates working in over 90 countries - ranging from successful entrepreneurs to high level executives and policymakers.



HEART (Attitude)

Being civic-minded and nurturing our students' heart have always been a big part of our curriculum. Throughout the programme, students are encouraged to organise and participate in Corporate Social Responsibility (CSR) projects to use what they have learnt to give back to the community.



HANDS (Skills)

Having the right technical skills will give our students an advantageous edge over their peers. We work hand-in-hand with industry partners to offer professional certifications so that our students have the right academic knowhow, and the relevant technical abilities to put what they have learnt into practice.

EXPLORE THE WORLD OF ENGINEERING



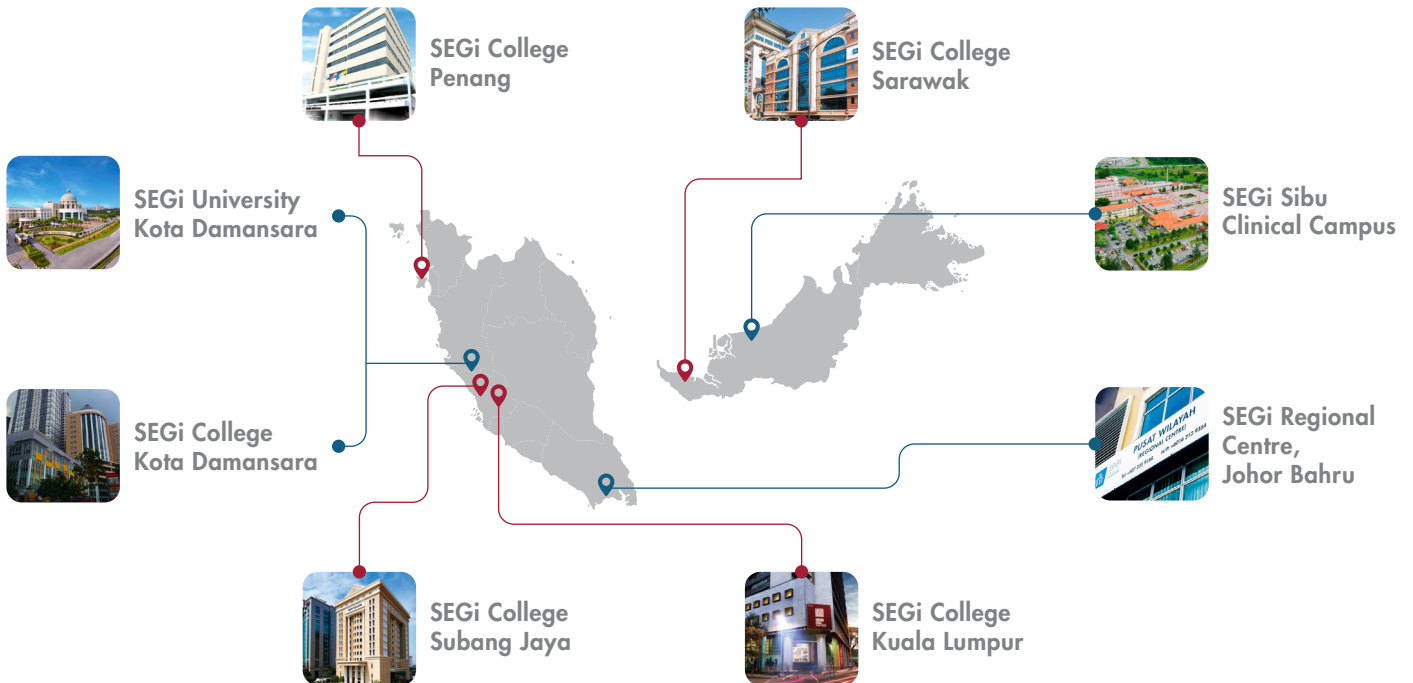
The Faculty of Engineering focuses on a student-centred environment, allowing student-teacher interaction in Malaysia and our partner universities worldwide. You have access to work in advanced laboratories and workshops with essential tools to develop your engineering skills. The programmes are delivered using applied methodologies and state-of-the-art engineering facilities.

CONTENTS

Championing 3H Transformative Learning	2
SEGi University & Colleges	4
Towards IR4.0	5
Beyond Education - Learning with SEGi	6
Bringing the World to You - Partner Universities	7
Achieve More in Less Time! - Engineering Degree + Masters all in 4 Years!	8
Learn from the Best - Bringing Industry Into the Classroom	9
A Pathway for Everyone	10 - 12
Your Work Experience Counts - APEL(A)	13
Programme Matrix	14
Programme List	15 - 20
Elective Courses	22 - 23
Scholarships Available	24



SEGi UNIVERSITY & COLLEGES



20,000 Students



778 Academics

10% foreign faculty staff

614 Management & support staff

Quality education accredited and assured by Ministry of Education, Malaysia



Internal processes in compliance with international standards

ISO 9001:2015 Certified

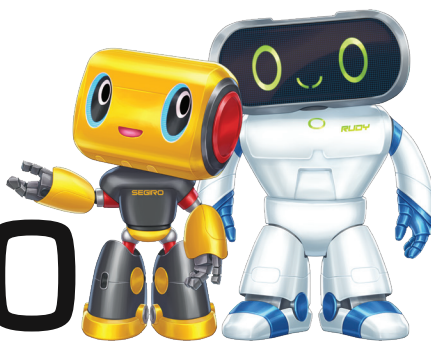


Cert no: MY14/05009



Cert no: MY14/01588

Towards R4.0



REIMAGINE possibilities

Increasing the employability and marketability of graduates through the creation of new jobs and roles to meet tomorrow's industry needs.

RECOGNISE your potential

Unleashing the true nature of graduates and their ability to touch lives and make a significant touch lives and make a significant.

REDEFINE your future

Imbibing the idea of change as the only constant and creating a sustainable future through qualifications that matter.

REVOLUTIONISE the market

Introducing innovative programmes that are in tandem with the market's growth and direction.



Every student learns coding & IR4.0 relevant subjects



Inter-faculty assignments to develop cross-disciplinary skills



Cyber physical classrooms & learning



Multi-million Ringgit learning management software



Over 600 corporate partners & collaborations





WELL-BEING

- On-campus counsellors
- 24/7 accessibility to counselling services
- International office & student accommodation office



LEARN WHILE HAVING FUN

- Student Affairs Office
- Gym, E-Sports studio and extended facilities



PERSONAL DEVELOPMENT & GROWTH

- Personal Professional Development Programme
- Career Development Centre



STUDENT MOBILITY PROGRAMME

- Cross-campus experiences
- Option to transfer overseas

BEYOND EDUCATION

LEARNING WITH SEGi



ACADEMIC SUCCESS

- Student Success Centre
- 24/7 Online learning portal (Blackboard & E-libraries)
- Free applications & tools (Microsoft 365, Adobe, AutoCount)



BRINGING THE WORLD TO YOU

PARTNER UNIVERSITIES



University of Sunderland (UoS), UK

Established in 1901 as Sunderland Technical College, the University of Sunderland (UoS) is greatly praised as a prescient and innovative University with exemplary standards of teaching, research and support. Located in Sunderland in the North East of England, it gained its university status in 1992 and has since gained a reputation as a research-active university.

The University of Sunderland prides itself on holistic academic programmes as integral to its commitment of excellence to its students and to producing well-rounded graduates. The Guardian ranks its Hospitality, Event Management and Tourism programme as the 4th best in the country, while Nursing is ranked 5th best. Other highly ranked majors in the Guardian league tables are Business, Management and Marketing, Accounting and Finance, Mechanical Engineering, and Fashion and Textiles. Also, it was named University of the Year for Social Inclusion by The Times and Sunday Times Good University Guide 2021.

- **QS 5 Stars** (2019) in Teaching, Employability, Internationalisation, Inclusiveness & Outstanding Facilities
- Awarded **SILVER STATUS** by Teaching Excellence Framework (TEF)
- Recognised by the UK Government and the British Council for **innovative international activity**
- **UK's top 5** providers of transnational education
- Shortlisted for the **Times Higher Education University of the Year Award**



University Malaya (UM), Malaysia

University Malaya (UM) was the first university established in Malaya on 8 October 1949 with the merger of the King Edward VII College of Medicine (established in 1905) and the Raffles College (established in 1928). Its establishment accelerated the advancement of education in Malaya and led to the founding of two autonomous branches in Singapore and Kuala Lumpur in 1959. In order to enhance higher education in both countries, there was a need to upgrade the branches to national university status. Thus, with the passing of the Parliament Act in 1961, the University of Malaya, Kuala Lumpur became a national university.

The University of Malaya, as it is known today, was officially recognised as a national university on 1 January 1962. Its initial objective to provide tertiary education to the people of Malaysia has successfully produced leaders and intellectuals in a range of disciplines. In line with the myriad of educational transformations that Malaysia has been undergoing, UM has continually stepped up its efforts to meet its vision of becoming an internationally renowned institution of higher learning in research, innovation, publication, and teaching.

- Ranked **59th** among the world's top 1,000 universities in the **Quacquarelli Symonds World University Rankings (QS-WUR)**
- **91st** in the **Academic Reputation** indicator which measures the opinions of over 94,000 faculty across the world
- Shortlisted for the **1st Most Sustainable University in Asia & 6th in the World** out of 113 institutions



ACHIEVE MORE IN LESS TIME!

ENGINEERING DEGREE + MASTERS ALL IN 4 YEARS!

SEGi Group of Colleges and the nation's top university, Universiti Malaya (UM) entered into a course and research collaboration for their engineering programmes. The tie-up offers an articulation pathway for SEGi-Sunderland Engineering undergraduates to obtain a UK-degree from the University of Sunderland (UoS), and complete their Master's programme at UM, all within 4 years of study.

SEGi Group of Colleges' Engineering programmes awarded by UoS is in a class of its own, in terms of ranking and research assessments as the colleges share the UK syllabus. The UoS Engineering programmes are ranked among the top 20 in the UK whereas UM's Engineering and Technology programmes are ranked 55th in the world (QS World University Rankings 2020 by Subject). UM also holds the 59th spot in the QS World University Rankings 2020.



Articulation pathway for SEGi-Sunderland Engineering Graduates to University Malaya Engineering Masters' programme



Shared resources and staff and student exchange



Assignment projects co-supervised or co-mentored by UM academics/researchers



Opportunities to partner with UM researchers in Joint Engineering research and innovation projects



LEARN FROM THE BEST!



BRINGING INDUSTRY INTO THE CLASSROOM



Internet of Things (IoT) Course with MBOT

As the core technology in the fourth industrial revolution, IoT embodies an unprecedented proliferation of sensors and connectedness with other technologies to facilitate the communication and cooperation processes of cyber-physical systems. Without IoT, there would be no smart home, smart factory, autonomous farming, autonomous vehicle, and no fourth industrial revolution!

SEGi is working together with our industry partner, Tekmark Group to provide IoT training program that is recognised by Malaysia Board of Technologist (MBOT) as Continuing Professional Development (CPD) training programme.



Six Sigma and SolidWorks

Six Sigma seeks to improve the quality of process outputs by identifying and removing the causes of defects (errors) and minimising variability in (manufacturing and business) processes. Lean Six Sigma is well recognised and highly demand industry certification, particularly in manufacturing industry.

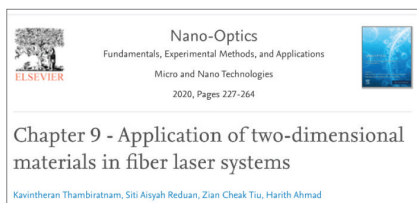
SolidWorks is a solid modelling computer-aided design (CAD) and computer aided engineering (CAE) software that widely used for engineering design. SolidWorks is one of the most recognised 3-dimensional CAD software that widely used in 3D printing design.



SEGi College IET Student Chapter

The Institution of Engineering and Technology (IET) is a multidisciplinary professional engineering institution. IET is one of the professional organisation that has the authority to establish professional registration for the titles of Chartered Engineering.

SEGi college has established IET students chapter. This is to allow our current students to establish a strong linkage with industry, professional body and academicians. More importantly, SEGi IET student chapter is paving a pathway for our graduates toward Chartered Engineer recognition.



SEGi Partners University Malaya in Nano-Optics Book

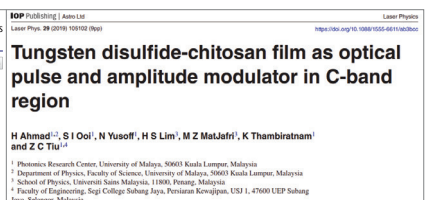
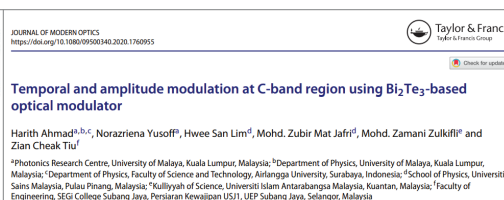
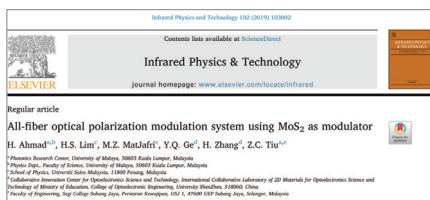
SEGi has worked with academicians from the University of Malaya to contribute in a chapter of a book titled 'Nano-Optics: Fundamentals, Experimental Methods, and Applications' published by world-renowned publisher Elsevier.

This book serves as a reference, offering an overview of existing research, with a particular focus on industrial applications. Nano-optics is the branch of nanoscience and nanotechnology that deals with the interaction of light with nanoscale objects. This book explores the materials, structure, manufacturing techniques, and industrial applications of nano-optics. The applications discussed include healthcare, communication, astronomy, and satellites.



Putting Knowledge into Application

SEGi engineering students wins big in World Invention Competition and Exhibition (WICE) organised by the Indonesian Young Scientist Association (IYSA) in 2019.



SEGi Partners University Malaya in Leading Engineering Research

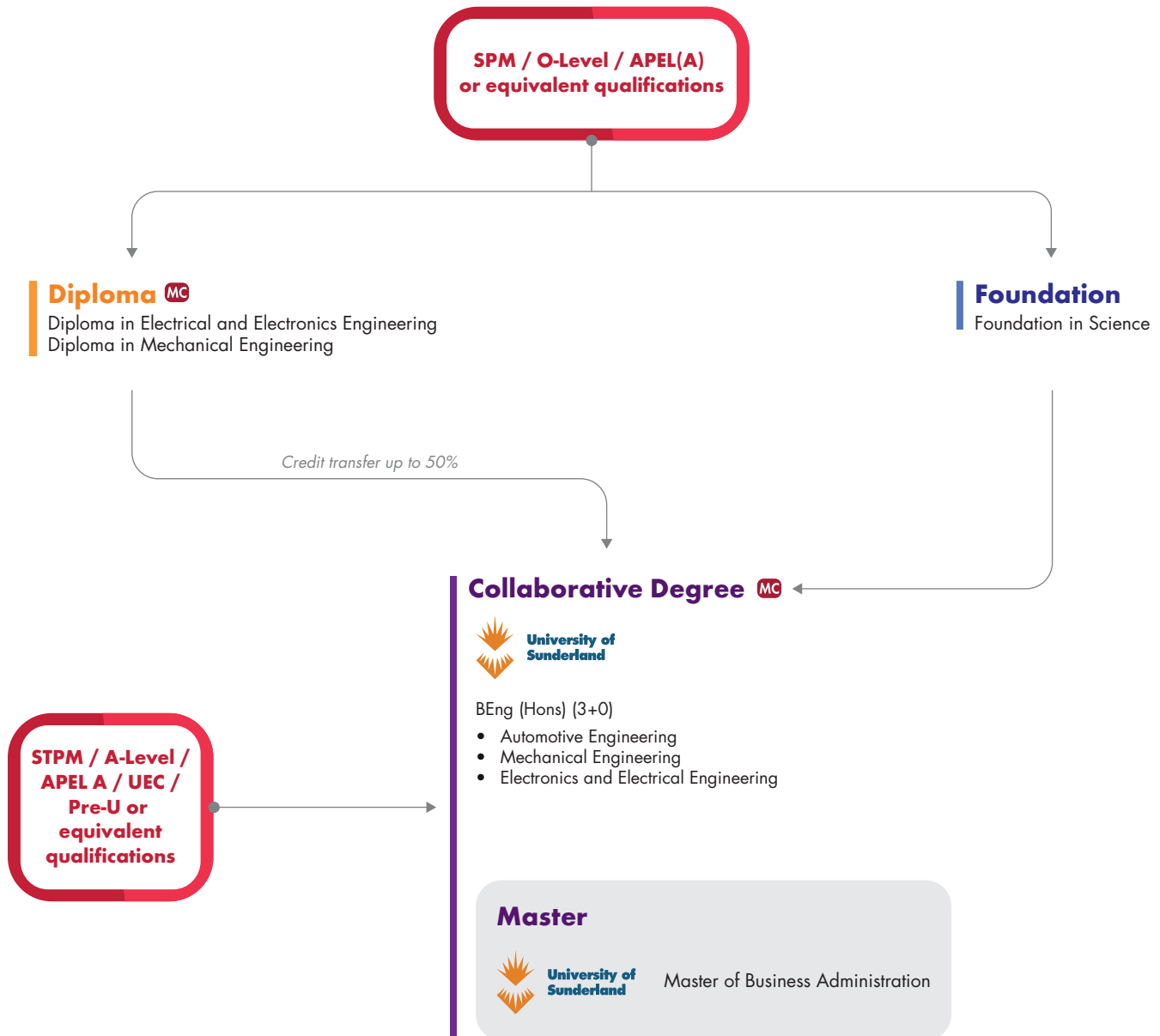
SEGi is proud to announce that Dr Tiu Zian Cheak, Associate Dean, Joint-Faculty of Engineering co-published a leading research in Photonics Engineering in the Journal of Modern Optics (ISI indexed) with researchers from University Malaya, University Sains Malaysia, University Islam Antarabangsa Malaysia and Airlangga University, Indonesia.

This joint research is a materialisation of the recent Memorandum of Understanding signed between SEGi Group of Colleges and University Malaya to partner (amongst other terms) in research, innovation and development programmes.



A PATHWAY FOR EVERYONE

STUDY ROUTE



Credit Transfer

Your previous studies and qualifications may earn credits towards your diploma or degree. The award of credits is given on the basis of subject mapping and grades achieved. The maximum transferrable credits you may earn for a previous academic qualification could be 50% of the total credits at the Bachelor's degree. Work experience, MOOCs and other training certifications may earn you credit transfers of up to 30%. All credit transfers are subject to approvals by the Senate or College Academic Board.

^{MC} Micro-credential

We break it down to build you up. SEGI's Micro-credentials are unbundled from accredited qualifications, offering the modern learners a tempting, tantalising buffet-style learning model. While traditional diplomas or degrees are well-structured and solid, SEGI's Micro-credentials offer learners the choice of ultimate flexibility and customisation, empowering learners to select only what they want to consume, experience and learn. Through our innovative curriculum framework, these unbundled courses delivered through micro-credentials can then be easily re-bundled into accredited and recognised qualifications.

YOUR WORK EXPERIENCE COUNTS



APEL(A)

Get admission into our SEGi programme through Accreditation of Prior Experiential Learning or APEL, which is a systematic process that involves the identification, documentation and assessment of prior experiential learning to determine the extent to which an individual has achieved the desired learning outcomes, for access to a programme of study and/or award of credits.

APEL provides an opportunity for individual with working experience but lack of formal academic qualifications to pursue their studies in Higher Education Institutions (HEIs). In general, knowledge obtained through formal education and working experience will be both assessed in APEL's assessment.

At the moment, APEL in Malaysia can only be used as entry requirement to HEIs for the following level of qualification:

- Level 3 (Certificate);
- Level 4 (Diploma);
- Level 6 (Bachelor's Degree); and
- Level 7 (Master's Degree)

Candidates are required to submit the application for APEL(A) certification to MQA directly.

Basic requirements to apply APEL(A):

- Only applicable to Malaysian
- Pass the Aptitude Test and Portfolio
- Minimum age requirements:
 - a) Certificate - 19 years of age
 - b) Diploma - 20 years of age
 - c) Bachelor's Degree - 21 years of age
 - d) Master's Degree - 30 years of age
 - e) Doctoral Degree - 35 years of age





PROGRAMME MATRIX

Programme	Awarding Institution	Entry Requirements	
Master of Business Administration SJ (R2/340/7/0753) (04/23) (A8624) KL (R2/340/7/0268) (11/23) (A9419) PG (R2/345/6/0303) (02/23) (A8848) SWK (R/340/7/0569) (02/21) (FA0310)	University of Sunderland, UK	<ul style="list-style-type: none"> A recognised Degree A recognised Diploma with at least 5 years of management experience with MQA-APEL T7 	Subang Jaya Kuala Lumpur Penang Sarawak
BEng (Hons) Automotive Engineering (3+0) SJ (R/523/6/0114) (05/23) (FA2376)		<ul style="list-style-type: none"> UEC with 5 credits STPM with Grade C in 2 subjects A-Level with passes in 2 subjects Matriculation / Foundation or equivalent SAM / AUSMAT with min ATAR 60 Related SKM Level 5 Related Diploma MQA-APEL T6 	Subang Jaya
BEng (Hons) Mechanical Engineering (3+0) SJ (R2/521/6/0013) (05/22) (A7814) PG (R/521/6/0044) (12/22) (FA2642)		Additional Requirements Credit in Maths at SPM / O-Level or equivalent and min CGPA 2.50	Subang Jaya Penang
BEng (Hons) Electronics and Electrical Engineering (3+0) SJ (R2/523/6/0290) (05/22) (A7813) PG (R/523/6/0097) (12/22) (FA2482)			
Diploma in Electrical and Electronics Engineering SJ (R2/520/4/0091) (11/22) (FA2829) PG (R/523/4/0103) (01/23) (FA2301)	SEGi College	<ul style="list-style-type: none"> SPM / O-Level or equivalent with 3 credits UEC with 3 credits Related SKM Level 3 Related Certificate or equivalent MQA-APEL T4 	Subang Jaya Penang
Diploma in Mechanical Engineering SJ (R2/521/4/0014) (03/22) (A7749)		Additional Requirements Credit in Maths at SPM / O-Level or equivalent	Subang Jaya
Foundation in Science SJ (R2/000/3/0021) (04/23) (A7755)		<ul style="list-style-type: none"> SPM / O-Level or equivalent with any 5 credits UEC with any 3 credits 	Subang Jaya
		Additional Requirements Credit in Maths at SPM / O-Level or equivalent	

PROGRAMME MATRIX



ENGLISH REQUIREMENTS*

Types of Exam	Diploma	Degree	Master
IELTS	Band 5	Band 5	Band 6.5
TOEFL iBT	42	46	60
Cambridge English	154	160	169
Pearson Test	47	51	59
Linguaskill Cambridge	154 - 161	162 - 168	169 - 175
MUET	Band 2	Band 3	-

**The English requirement serves as a guideline and it is subject to change. The weightage requirement may vary for different programmes.*

ENTRY REQUIREMENTS FOR INTERNATIONAL STUDENTS



bit.ly/isentryreq

A pathway for everyone

Your prior-qualifications were not mentioned?
Did not meet the entry requirements?

When there is a will, there's always a way. Contact us and schedule a FREE one-on-one consultation session to plot out a customised pathway that will fit your needs.



MASTER OF BUSINESS ADMINISTRATION

SJ (R2/340/7/0753) (04/23) (A8624) • KL (R2/340/7/0268) (11/23) (A9419) • PG (R2/345/6/0303) (02/23) (A8848) • SWK (R2/340/7/0569) (02/26) (MQA/FA0310)

Our internationally acclaimed MBA programme is designed for enterprising minds seeking to combine their expertise with general management skills. You'll learn decision-making and problem solving skills in an international business environment and strategies to manage globalisation issues.

The MBA will assimilate work-based learning that will improve your ability to bring many productive changes within your current organisation.



**University of
Sunderland**

Programme Modules (100% Assignment Based)

- Financial Management and Control
- Strategic Management in an International Context
- Value Creation in Organisations - Managing Operations and Marketing
- Professional Management and Leadership Development
- Innovation, Entrepreneurship and Technology Transfer
- MBA Project

Financial Aid / Funding Available*

- EPF
- HRDF
- SEGi Monthly Installment
- Low Initial Payment

*terms & conditions apply.


ATLASSIAN


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100% Fully Accredited

R4.0 IR4.0 Enhanced Syllabus

 Further Studies Overseas

 UK Lecturers / Tutors

 Sunderland Library

 Earn up to 12 Digital Badges

Career Opportunities

An MBA will take your teaching career to strategic leadership and management positions within the education sector, in both private and public settings.

Recognition / Accreditation



Agensi Kelayakan Malaysia
Malaysian Qualifications Agency

JPA

QS STARS
RATING SYSTEM

B.ENG (HONS) AUTOMOTIVE ENGINEERING (3+0)

SJ (R/523/6/0114) (05/23) (FA2376)



The Bachelor of Engineering (Hons) in Automotive Engineering programme is designed to prepare student for professional career as an engineer in automotive & manufacturing industries.

In first and second year, this programme covers topics such as electrical principles, mechanics, manufacturing & materials. The final year of this program is specialising in vehicle systems and industry automotive design. Besides, this programme is conducted in learner centric basis, which encourages dual directional interaction between students and lecturers. Moreover, the learning activities are not confined in a classroom, but involving practical laboratories, industry visits, participation in international competitions and community service activities. Automotive Engineering is one of the most demanding expertise in current Malaysia manufacturing industries. According to Industry 4WRD published by MITI, Automotive Engineering one of the Focus Sectors of Industry 4.0 in Malaysia.

Programme Modules

Year 1

- Applied Mechanics
- Manufacturing and Materials
- Engineering Mathematics
- Introduction to Automotive Engineering
- Design, Drawing and Practical Skills
- Energy Conversion **EB**
- Electronics and Electrical Principals
- English 2
- Malaysian Studies 3 (International students)
- Hubungan Etnik (Local Students)
- Bahasa Melayu Komunikasi 2 (International students)
- Tamadun Islam & Tamadun Asia (Local students)

Year 2

- Design Methods and Application
- Computer Aided Engineering Application
- Microprocessor and PLCs
- Vehicle Chassis Engineering **EB**
- Engineering Mechanics
- Thermofluids and Engines **EB**
- Automotive Electrical and Electronics System
- Steering and Suspension System
- Design Thinking **(NEW)** **4.0** / Bahasa Kebangsaan A*
- Theory of Machines **EB**
- Malaysia Society 5.0 **(NEW)** **4.0**

Year 3

- Automotive Dynamics and Control System **EB**
- Project
- Automotive Design and Material Selection **EB**
- Manufacturing System Design
- Community Engagement
- Professional Engineering Management Techniques
- Entrepreneurship
- Internship

*For Malaysian students who do not have a credit in SPM BM



**University of
Sunderland**

Financial Aid / Funding Available*

- PTPTN
- EPF
- HRDF
- SEGi Monthly Installment
- Low Initial Payment


*terms & conditions apply.


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 Student Mobility (MY & UK)

 IR4.0 Enhanced Syllabus

 Further Studies Overseas

 UK Lecturers / Tutors

 Sunderland Library

 Earn up to 47 Digital Badges

EB **Executive Bachelor (EB) Module**
(Complete 6 modules to earn each award)

- EB in Automotive Engineering

Career Opportunities

This programme prepares you for a career in research, design, development, advanced engineering and production of various types of heavy or light vehicles. As graduates of this programme, you can create the latest design for vehicles, utilising knowledge in engine and transmission, vehicle dynamics, analysis of vehicle structure and electronics.



B.ENG (HONS) MECHANICAL ENGINEERING (3+0)

SJ (R2/521/6/0013) (05/22) (A7814) • PG (R/521/6/0044) (12/22) (FA2642)

The Bachelor of Engineering (Hons) in Mechanical Engineering program is designed to prepare student for professional career as an engineer in mechanical & manufacturing industries. This programme covers topics such as electrical principles, mechanics, manufacturing & materials, microprocessors and thermofluids. Staffs use their real-world experience to enhance the already excellent teaching and support, which is enriched by research into areas such as manufacturing systems and advanced maintenance. Besides, this programme is conducting in learner centric basis, which encourages dual directional interaction between students and lecturers. Moreover, the learning activities are not confined in a classroom, but involving practical laboratories, industry visits, participation in international competitions and community service activities. Mechanical Engineering is one of the most demanding expertise in current Malaysia manufacturing industries. According to Industry 4WRD published by MITI, Mechanical Engineering one of the Focus Sectors of Industry 4.0 in Malaysia.



**University of
Sunderland**

Programme Modules

Year 1

- Applied Mechanics
- Manufacturing and Materials
- Engineering Mathematics
- Design Drawing and Practical Skills
- Energy Conversion **EB**
- Electronic & Electrical Principles
- Programme Methodology & Problem Solving
- English 2
- Malaysian Studies 3 (International students)
- Hubungan Etnik (Local Students)
- Bahasa Melayu Komunikasi 2 (International students)
- Tamadun Islam & Tamadun Asia (Local students)

Year 2

- Design Methods and Applications
- Computer Aided Engineering **EB**
- Automation for Manufacturing
- Thermofluids and Engines **EB**
- Engineering Mechanics **EB**
- Manufacturing Processes
- Numerical Analysis
- Engineers and Society
- Design Thinking **(NEW)** **IR4.0** / Bahasa Kebangsaan A*
- Malaysia Society 5.0 **(NEW)** **IR4.0**

Year 3

- Mechanical Design & Material Selection **EB**
- Engineering Dynamics & Thermofluids
- Professional Engineering Management Techniques
- Manufacturing Systems Design **EB**
- Project
- Entrepreneurship
- Community Engagement

Financial Aid / Funding Available*

- PTPTN
- EPF
- HRDF
- SEGi Monthly Installment
- Low Initial Payment

*terms & conditions apply.

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Student Mobility (MY & UK)

IR4.0 Enhanced Syllabus

Further Studies Overseas

UK Lecturers / Tutors

Sunderland Library

Earn up to 47 Digital Badges

EB Executive Bachelor (EB) Module
(Complete 6 modules to earn each award)

- EB in Mechanical Engineering

Career Opportunities

As graduates of the BEng (Hons) Mechanical Engineering, you will have the necessary skills and knowledge to play a major role in design, management and manufacturing in a wide range of industries.

*For Malaysian students who do not have a credit in SPM BM

B.ENG (HONS) ELECTRONICS AND ELECTRICAL ENGINEERING (3+0)

SJ (R2/523/6/0290) (05/22) (A7813) • PG (R/523/6/0097) (12/22) (FA2482)



The Bachelor of Engineering (Hons) in Electrical & Electronics Engineering programme is designed to prepare student for professional career as an engineer in electrical & electronics industries. This program is closely linked to the needs of the automotive, aerospace, medical and power generation industries. Besides, this programme is conducted in learner centric basis, which encourages dual directional interaction between students and lecturers. Moreover, the learning activities are not confined in a classroom, but involving practical laboratories, industry visits, participation in international competitions and community service activities. Electrical & Electronics Engineering is one of the most demanding expertise in current Malaysia manufacturing industries. According to Industry 4WRD published by MITI, Electrical & Electronics Engineering one of the Focus Sectors of Industry 4.0 in Malaysia.



**University of
Sunderland**

Programme Modules

Year 1

- Applied Mechanics
- Manufacturing and Materials
- Engineering Mathematics
- Design Drawing and Practical Skills
- Energy Conversion **EB**
- Electronic & Electrical Principles **EB**
- Magnetism Theory
- English 2
- Malaysian Studies 3 (International students)
- Hubungan Etnik (Local Students)
- Bahasa Melayu Komunikasi 2 (International students)
- Tamadun Islam & Tamadun Asia (Local students)

Year 2

- Mathematics, Statistics and Simulation
- Control and Instrumentation **EB**
- Microprocessor and PLCs **EB**
- Electronics **EB**
- Electrical Power Systems and Machines **EB**
- Manufacturing Processes
- Programme Methodology & Problem Solving
- Communication System
- Design Thinking **(NEW)** **IR4.0** / Bahasa Kebangsaan A*
- Malaysia Society 5.0 **(NEW)** **IR4.0**

Year 3

- Electrical Power **EB**
- Electronic Systems Design **EB**
- Manufacturing Systems Design
- Professional Engineering Management Techniques
- Project
- Entrepreneurship
- Community Engagement

Financial Aid / Funding Available*

- PTPTN
- EPF
- HRDF
- SEGi Monthly Installment
- Low Initial Payment


*terms & conditions apply.


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 Student Mobility (MY & UK)

 IR4.0 Enhanced Syllabus

 Further Studies Overseas

 UK Lecturers / Tutors

 Sunderland Library

 Earn up to 47 Digital Badges

EB **Executive Bachelor (EB) Module**
(Complete 6 modules to earn each award)

- EB in Electronic Engineering
- EB in Power Engineering

Career Opportunities

As graduates of the BEng (Hons) Electronics and Electrical programme, you will have a wide choice of career in diverse sectors such as: Automotive industry, Aerospace, Power generation and Communications.

*For Malaysian students who do not have a credit in SPM BM



DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING

SJ (R2/520/4/0091) (11/22) (FA2829) • PG (R/523/4/0103) (01/23) (FA2301)

The Diploma in Electrical and Electronics Engineering programme is designed to prepare student for professional career in engineering industries and to articulate to Bachelor in Electronics & Electrical Engineering fields. This programme is conducted in learner centric basis, which encourages dual directional interaction between students and lecturers. Moreover, the learning activities are not confined in a classroom, but involving practical laboratories, industry visits, participation in international competitions and community service activities. Electrical and Electronics Engineering is one of the most demanding expertise in current Malaysia manufacturing industries. According to Industry 4WRD published by MITI, Electrical and Electronics Engineering one of the Focus Sectors of Industry 4.0 in Malaysia.



Programme Modules

Year 1

- Engineering Mathematics 1
- Foundation Physics
- Engineering Drawing
- Principle of Electronics & Electrical Engineering **PD**
- Applied Digital Skills **(NEW)**
- Academic English
- Malaysian Studies 2 (Local students)
- Bahasa Melayu Komunikasi 1 (International students)
- Growth Mindset **(NEW)** / Bahasa Kebangsaan A*
- Programming Methodology & Problem Solving
- Engineering Mathematics 2
- Digital Electronics **PD**
- Circuit Theory & Electro-Magnetic Field **PD**
- Analogue Electronics **PD**
- Instrumentation & Measurement **PD**
- Microprocessors & Microcontrollers

Year 2

- Applied Mathematics
- Co-curriculum Management
- Control System **PD**
- Introduction to Robotics & Industrial Simulation **PD**
- Electrical Machines **PD**
- Microelectronics **PD**
- Elective **(NEW)**
- Industry Revolution 4.0 in Malaysia **(NEW)**
- Final Year Project 1
- Communication System
- Power System **PD**
- Industrial Management
- Final Year Project 2

Year 3

- Internship

Financial Aid / Funding Available*

- PTPTN
- EPF
- HRDF
- SEGi Monthly Installment
- Low Initial Payment

*terms & conditions apply.

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Student Mobility (MY)

IR4.0 Enhanced Syllabus

Further Studies Overseas

Earn up to 62 Digital Badges

PD Professional Diploma (PD) Module
(Complete 6 modules to earn each award)

- PD in Electronic Engineering
- PD in Power Engineering

Career Opportunities

As graduates of the Diploma in Electronic and Electrical Engineering, you are able to pursue a variety of job roles. Possible job titles relevant to this qualification include: Electrical Engineering Technical Officer, Technologist, Design Specialist, Assistant Engineer.

*For Malaysian students who do not have a credit in SPM BM

DIPLOMA IN MECHANICAL ENGINEERING

SJ (R2/521/4/0014) (03/22) (A7749)







The Diploma in Mechanical Engineering programme is designed to prepare student for a professional career in engineering industries and to articulate to Bachelor in Mechanical / Automotive Engineering fields. This programme is conducted in learner-centric basis, which encourages dual directional interaction between students and lecturers. Moreover, the learning activities are not confined in a classroom, but involving practical laboratories, industry visits, participation in international competitions and community service activities. Mechanical engineering is one of the most demanding expertise in current Malaysia manufacturing industries. According to Industry 4WRD published by MITI, mechanical engineering one of the Focus Sectors of Industry 4.0 in Malaysia.



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Programme Modules

Year 1

- Engineering Mathematics 1
- Foundation Physics
- Engineering Drawing
- Principle of Electronics & Electrical Engineering
- Applied Digital Skills (NEW) 
- Academic English
- Malaysian Studies 2 (Local students)
- Bahasa Melayu Komunikasi 1 (International students)
- Growth Mindset (NEW)  / Bahasa Kebangsaan A*
- Programming Methodology & Problem Solving
- Engineering Mathematics 2
- Engineering Statics 
- Material Engineering 
- Thermodynamics
- Mechanics of Fluids 1

Year 2

- Co-curriculum Management
- Mechanics of Material 1
- Manufacturing Technology 
- Applied Thermodynamics
- Mechanics of Fluids 2
- Elective (NEW)
- Industry Revolution 4.0 in Malaysia (NEW) 
- Final Year Project 1
- Mechanics of Material 2
- Engineering Dynamics 
- Heat Transfer 
- Industrial Management
- Machine Design 
- Final Year Project 2

Year 3

- Internship

Financial Aid / Funding Available*

- PTPTN
- EPF
- HRDF
- SEGi Monthly Installment
- Low Initial Payment


*terms & conditions apply.


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 Student Mobility (MY)

 IR4.0 Enhanced Syllabus

 Further Studies Overseas

 Earn up to 62 Digital Badges

 **Professional Diploma (PD) Module**
(Complete 6 modules to earn each award)

- PD in Mechanical Engineering

Career Opportunities

Possible job titles relevant to this qualification include: CAD Application Engineer, Trainee Engineer, Trainee Design Engineer, Mechanical, Design Engineer, Draughts Person and Structural Engineer.

*For Malaysian students who do not have a credit in SPM BM



FOUNDATION IN SCIENCE

SJ (R2/000/3/0021) (04/23) (A7755)

The foundation programme is shaped to equip you with the knowledge, skills and practice needed to bridge you from secondary studies to tertiary level.

We cover the subject of applied sciences, providing a strong foundation for those intending to pursue programmes in Health Sciences, Engineering and Computing. The foundation will guarantee your entry into above par degree programmes with SEGi as well as UK universities in collaboration with SEGi. The foundation programme enables you to gain direct entry into the respective degree programmes.

Programme Modules

- Chemistry I
- Mathematics I
- Physics I
- Biology I
- English I
- Chemistry II
- Mathematics II
- Physics II
- Basic Information and Communication Technologies (ICT)
- English III
- Chemistry III
- Engineering Mathematics
- Physics III
- Biology III
- Biochemistry
- Thinking skills



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Financial Aid / Funding Available*

- PTPTN
- EPF
- HRDF
- SEGi Monthly Installment
- Low Initial Payment

*terms & conditions apply.

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Student Mobility (MY)



IR4.0 Enhanced Syllabus



Further Studies Overseas



Earn up to 32 Digital Badges

Career Opportunities

This qualification is specially designed for students with SPM, O-Level or equivalent qualifications. Upon successful completion of this programme, students may enrol in a range of health science, engineering or computing degree programmes.

ELECTIVE COURSES



DIPLOMA LEVEL

No	Name of Course / Module	School	Credit Value	No	Name of Course / Module	School	Credit Value	
1	Business and Company Law	Business and Accounting	3	27	CyberPsychology	Psychology	3	
2	Business Communication		3	28	Positive Psychology		3	
3	Business Management		3	29	Social Psychology		3	
4	Cost Accounting		3	30	Understanding the Child's Growth and Development	Early Childhood Education	3	
5	Data Analysis		3	31	Play & Learning for Young Children		3	
6	Financial Accounting 1		3	32	Physical Education & Health Care for Young Children		3	
7	Introduction to Business		3	33	Safety & Well-being of Young Children		3	
8	Introduction to Finance		3	34	Global Citizenship for Young Children		3	
9	Introduction to Management Accounting		3	35	An Introduction to Montessori Pedagogy	3		
10	Introduction to Marketing		3	36	Music for Children	Music	3	
11	Principles of Management		3	37	Music Appreciation 1: Aesthetic & Style		3	
12	Social Media Marketing		3	38	Music Appreciation 5: World Music		3	
13	Technopreneurship		Business and Accounting	3	39	Print Production	Hospitality & Tourism / Creative Arts & Design	3
14	Consumer Behaviour			4	40	Advertising Creativity		3
15	Corporate Audit			4	41	Wedding Planning and Management	Hospitality & Tourism	3
16	Digital and Service Marketing			4	42	Wine Management		3
17	Digital Marketing			4	43	Introductory to French		3
18	Finance			4	44	Food & Its Culture		3
19	Human Resource Management			4	45	Principles of Electronics & Electrical Engineering		Engineering
20	Integrated Marketing Communication			4	46	Engineering Drawing	3	
21	International Business			4	47	Fundamental of Photography	Creative Arts & Design	
22	Marketing Management			4	48	Digital Graphics		3
23	Operations Management			4	49	Introduction to Multimedia & Animation		4
24	Organisational Behaviour			4	50	Interactive Web Design		4
25	Personal Selling			4	51	Videography		4
26	Industrial and Organisational Psychology	Psychology	3	52	Presentation Skills		3	

CERTIFICATE LEVEL

No	Name of Course / Module	School	Credit Value	No	Name of Course / Module	School	Credit Value
1	Basic Financial Accounting	Business and Accounting	3	7	Basic Management	Business and Accounting	3
2	Introduction to Human Resource Management		3	8	Basic Marketing		3
3	Business Ethics		3	9	Business Communication and Writing		3
4	Basic Statistics		3	10	Basic Finance		3
5	Basic Business Principles		3	11	The Basics of Physical Education and Health Care in Early Childhood	Early Childhood Education	3
6	Introduction to Cost Accounting		3	12	Fundamental Photography	Creative Arts & Design	4



SCHOLARSHIPS AVAILABLE*

*subject to change



Scholarship Name	Priority Courses	
Program Graduan Cemerlang (GrEP MARA)	All Programmes	
Program Penajaan Pengajian Tertiar (TESP MARA)		
Bantuan Zakat MAIDAM		
Hong Leong Foundation Scholarship		
Keysight Malaysia Scholarship		
Lembaga Zakat Selangor		
Zakat Kelantan		
Karangkraf		
Sin Chew Media Corporation Bhd		
STAR Media Group Bhd		
SEGi High Achiever's Scholarship		
SEGi Ace Scholarship		
SEGi Unified Examination Certificate (UEC) Scholarship	<ul style="list-style-type: none"> • Education 	
Yayasan Kemanusiaan Da Sheng		
Sony Scholarship		<ul style="list-style-type: none"> • Electrical and Electronics Engineering • Mechanical Engineering • Marketing <ul style="list-style-type: none"> • Human Resources • Administration • Computer Science
Gamuda Scholarship		<ul style="list-style-type: none"> • Engineering • Accounting <ul style="list-style-type: none"> • Human Resource • Psychology
PETRONAS Education Sponsorship Programme		<ul style="list-style-type: none"> • Accounting & Business • Arts & Communication • Computer & Multimedia <ul style="list-style-type: none"> • Education • Engineering & Architecture
Bank Negara Scholarship		<ul style="list-style-type: none"> • Computer Science <ul style="list-style-type: none"> • Accounting
Tunku Abdul Rahman (BTAR) Scholarship		<ul style="list-style-type: none"> • Accounting & Business • Arts & Communication • Computer & Multimedia <ul style="list-style-type: none"> • Education • Engineering & Architecture
Genting Malaysia Scholarship Award		<ul style="list-style-type: none"> • Culinary Arts • Hospitality Management
OCBC Bank		<ul style="list-style-type: none"> • Accountancy • Business Administration • Computer Science • Engineering <ul style="list-style-type: none"> • Accounting & Business • Arts & Communication • Computer & Multimedia
Elena Cooke Education Fund		<ul style="list-style-type: none"> • Accounting & Business • Arts & Communications • Computer & Multimedia <ul style="list-style-type: none"> • Engineering & Architecture • Hospitality & Tourism



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**SEGi Covid-19
Readiness Guide**



bit.ly/c19readinessguide