



SEGi
University
& Colleges

ENGINEERING, ARCHITECTURE & QUANTITY SURVEYING

/,en.dʒɪˈnɪə.rɪŋ//ˈɑːkɪtektʃə(r)//ænd//ˈkwɒntəti//səˈveɪ/ **noun**

1. Recognised by Board of Engineers Malaysia, Board of Architects Malaysia and the Board of Quantity Surveyors Malaysia
2. Research and innovation focused
3. Graduate with additional certificates and affiliations
4. Strong industrial collaboration



Collaboration with





ONE OF THE LARGEST & LEADING HIGHER EDUCATION GROUP IN MALAYSIA

49 YEARS AT THE FOREFRONT

OF EDUCATION

KOTA DAMANSARA | KUALA LUMPUR | PETALING JAYA | SUBANG JAYA | PENANG | KUCHING | JOHOR BAHRU | SIBU





>90
NATIONALITIES
ON CAMPUS

>600
INDUSTRY
PARTNERS

100%
EMPLOYABILITY
RATE

#731-740 **>** #701-710
2026 2027

RISING STEADILY

TOP 1.5% UNIVERSITY IN THE WORLD

INTERNATIONAL STUDENTS

#21 IN THE WORLD #3 IN MALAYSIA

FACULTY-STUDENT RATIO

#81 IN THE WORLD #3 IN MALAYSIA

INTERNATIONAL FACULTY

#273 IN THE WORLD #6 IN MALAYSIA

QS The Quacquarelli Symonds (QS) World University Rankings are among the most trusted global benchmarks for university excellence.

There are an estimated 50,000 universities in the world. Of these, QS evaluates over 8,467 institutions worldwide based on academic reputation, employer reputation, faculty-to-student ratio, research impact, and international diversity.

Being ranked means a university has proven its quality, impact, and global relevance — and by joining SEGi, you become part of the world's best.



THE UNIVERSITY WHERE AI IS INFRASTRUCTURE, NOT A BUZZ WORD



Established in 2019, SEGi's Centre of Excellence in AI & Innovation prepares students, professionals and organisations for an AI-driven future. Through industry certifications, practical training, collaborations and applied research, the Centre builds the skills to use AI responsibly, confidently and effectively.

GRADUATE FUTURE-READY WITH AI CERTIFICATIONS

Graduate with more than academic knowledge! On top of your degree, you will also gain additional AI capabilities and certifications to boost your employability.



CERTIFIED AI ANALYTICS

Use AI-powered tools to analyse data, identify patterns and generate meaningful insights for informed decision-making.



CERTIFIED AI PRACTITIONER

Certified competency in AI concepts, applications, ethics and responsible use, with the confidence to apply AI effectively in the workplace.



CERTIFIED AI AGENT DEVELOPER

Design and develop AI agents that automate tasks, process information and support real-world workflows.



EARN ANOTHER DEGREE FROM UNIVERSITY OF CHICHESTER

*via credit transfer, upon fulfilling requirements



#25 IN UK
TEACHING QUALITY
National Student Survey 2026



GOLD
HIGHEST AWARD FOR
TEACHING EXCELLENCE
Teaching Excellence Framework



TOP 10
MODERN UNIVERSITY
Times and Sunday Times Good
University Guide 2026



11 IN UK
Complete University
Guide 2027



BEST UNIVERSITY
FOR TEACHING QUALITY 2026
The Daily Mail 2026



THE GUARDIAN
UNIVERSITY GUIDE 2026

LEARN WITH THE WORLD'S TOP BRANDS

#SEGiIndustryIntoClassroom

What if your studies revolved around **real-world business challenges**, taught by leading global brands and led to actual industry impact instead of just hypothetical assignments?

At SEGi, **industry integration** is fundamental to your learning experience, woven into your program from day one—not just an afterthought or a final internship.

OUR BOLD PROMISE

Work with
10
BRANDS
during Your Studies

Earn
10
CERTIFICATIONS
from the Industry

Graduate with
3
JOB OFFERS



Winner of the
Talentbank Employer
Choice Award
FOR 4 CONSECUTIVE YEARS

CONSORTIUM OF INDUSTRY PARTNERS



ENGINEERING IS NO LONGER
JUST ABOUT MACHINES

IT'S ABOUT BUILDING THE FUTURE

Industrial Revolution 5.0 (IR 5.0) marks the evolution of engineering towards smarter, human-centred and sustainable solutions for the future.

ENGINEERING FOR IR5.0

Building future-ready engineers powered by AI, data and advanced technologies today.

ENGINEERING + DIGITAL INTELLIGENCE

Enhancing engineering through technology intelligence, digital and computational capabilities.

ESG & SUSTAINABILITY

Engineering solutions for sustainability, responsibility and long-term environmental impact goals.

VALUE ENGINEERING

Creating smarter value through efficiency, innovation and continuous improvement practices.

INDUSTRY INTO CLASSROOM

Bringing industry practice, real-world exposure and career support into learning.

PROFESSIONAL ENGINEERING BODY SUPPORT

Providing industry insights, professional guidance and engineering knowledge development.





WHERE DESIGN, TECHNOLOGY AND VALUE CONVERGE BETTER PLACES. LASTING VALUE.

Architecture, Interior Architecture and Quantity Surveying come together to shape spaces that are human-centred, technically sound, sustainable and commercially viable. Through design intelligence, digital workflows and professional practice, students learn to transform ideas into environments that perform, inspire and create lasting value.

HUMAN-CENTRED DESIGN

Creating inclusive, functional and meaningful spaces that improve everyday life and human experience.

CLIMATE- RESPONSIVE DESIGN

Designing healthier and more sustainable places that respond to climate, context and community.

DIGITAL DESIGN + BIM

Using Building Information Modelling, digital visualization and smart technologies to enhance design and project delivery.

VALUE + COST INTELLIGENCE

Balancing design quality, cost efficiency and long-term performance through value engineering and informed decisions.

Future Built World Visionaries

Future-ready expertise in design, construction, digital innovation and sustainability prepares students to shape the built environment through professional practice, leadership and entrepreneurship.

ENGINEERING INTELLIGENCE FOR A BETTER TOMORROW

Future-ready engineering capabilities are shaped through AI, digital technologies, sustainability and value-driven innovation—empowering students to solve complex challenges and create intelligent solutions with lasting impact across tomorrow’s industries.

Engineering Excellence Guided by Industry Leadership

Ir. Prof. Dr. Jeffrey Chiang Choong Luin is a Professor of Civil Engineering at SEGi University and an accomplished structural engineer with extensive experience in academia, professional practice and engineering leadership. He served as President of The Institution of Engineers, Malaysia (IEM) for the 2024–2026 session and has contributed significantly to the development of Malaysian engineering standards.

His areas of expertise include concrete structural analysis and design, earthquake engineering, energy conservation and sustainable structures. Through his involvement in academia, industry and professional engineering bodies, Prof. Jeffrey brings valuable real-world perspectives into the learning environment.

FOREWORD: MESSAGE FROM THE DEAN

“Engineering is not simply about designing buildings, machines or systems but it is about shaping a safer, smarter and more sustainable future for society. The solutions you create may one day protect communities, transform industries and improve the lives of generations.”

“At SEGi University, we aim to develop more than technically competent graduates. We nurture critical thinkers, responsible professionals and courageous innovators who can respond to real-world challenges with knowledge, integrity and purpose.”

“Your engineering journey begins in the classroom, but its impact can reach far beyond it. Be curious, embrace challenges and never stop learning. With the right foundation, determination and professional values, you have the potential to become an engineer who does not merely adapt to the future but helps to build it.”

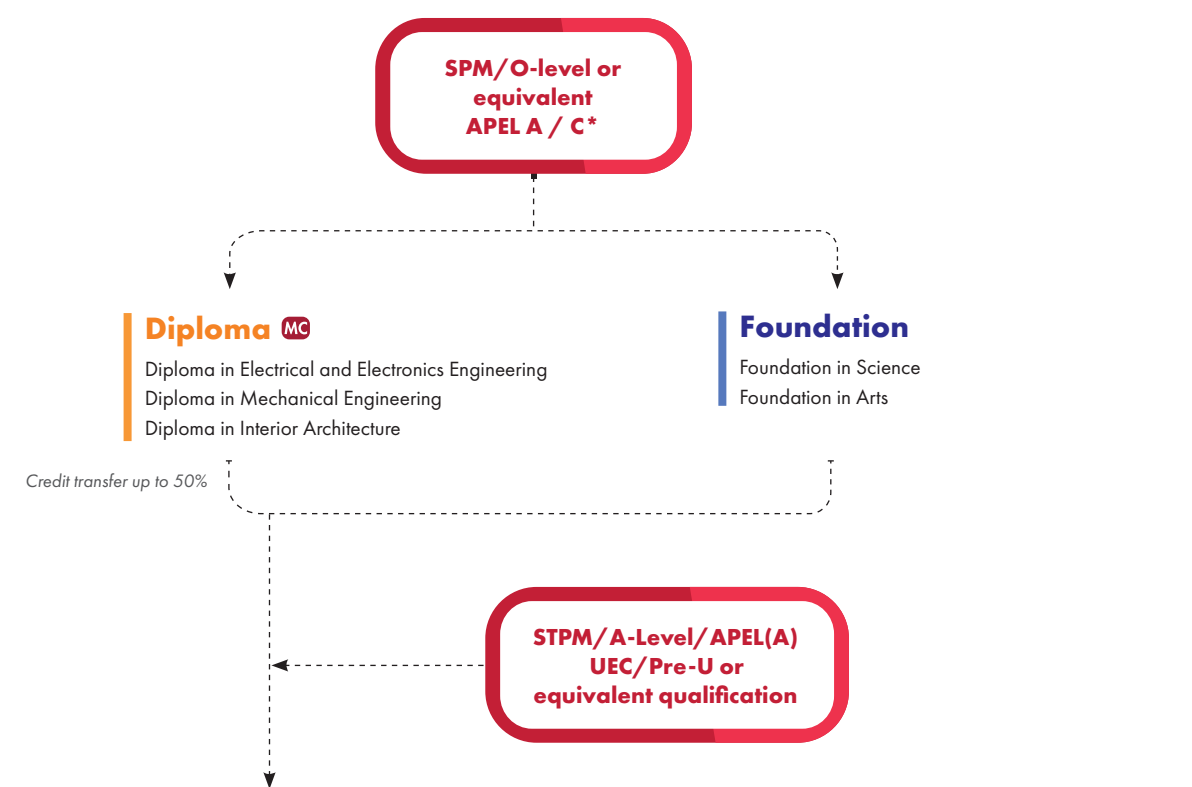
IR. PROF. DR. JEFFREY CHIANG CHOONG LUIN
*Dean, Professor of Civil Engineering, SEGi University ,
Immediate Past President,
The Institution of Engineers, Malaysia (IEM)*



QUALITY EDUCATION WITHIN REACH PROGRAMMES THAT SUITS YOUR NEEDS

Mode of Study	Full time	Programme is offered in full time mode
Micro-credentials	MC	Micro-credentials are designed for students who wish to ‘ala carte’ their education. Subjects are offered on a singular basis and are stackable over time to convert into a full-fledged qualification
APEL	APEL.A/C	Developed by the Malaysian Qualifications Agency (MQA), the Accreditation of Prior Experiential Learning (APEL) programme enables students to access multiple pathways into a recognised programme
Mobility	Mobility	Students are eligible to study in another SEGi campus for 1 semester without additional cost to their tuition fee
	Global Mobility	Students are eligible to transfer to our partnering universities for mobility programmes
Funding	PTPTN Assistance	A dedicated PTPTN Assistance office to help students secure PTPTN fundings
	EPF-Claimable	Students/guardians can withdraw from the EPF to fund their/their children’s studies
	PTPTNX'tra	PTPTNX'tra helps cover the remaining shortfall that is not covered by PTPTN. Students can effectively pay nothing until they graduate and enjoy an education loan with a minimal interest rate of 1%
	EduFlex	Designed for Adult Learners, students can leverage on our education loan with a minimal 4% interest
	0% Installment	We offer a 0% interest monthly instalment plan, so that you don't have to break the bank.

STUDY ROUTE



Degree



Bachelor of Civil Engineering with Honours | Master of Engineering (Hons) Civil Engineering *
Bachelor of Chemical Engineering with Honours | Master of Engineering (Hons) Chemical Engineering *
Bachelor of Electrical & Electronics Engineering with Honours | Master of Engineering (Hons) Electrical & Electronics Engineering *
Bachelor of Mechanical Engineering with Honours | Master of Engineering (Hons) Mechanical Engineering *
Bachelor of Mechatronics Engineering with Honours | Master of Engineering (Hons) Mechatronics Engineering *

Degree



Bachelor of Science (Hons) Architecture
Bachelor of Arts (Honours) in Interior Architecture
Bachelor in Quantity Surveying

Master/PhD



Doctor of Philosophy (Engineering)
Master of Science (Engineering) by Research

*via credit transfer, upon fulfilling requirements

ENTRY REQUIREMENTS FOR INTERNATIONAL STUDENTS



PROGRAMME MATRIX

Programme	Awarding Institution	Entry Requirements	Campus
Bachelor of Civil Engineering with Honours KD [R3/0716/6/0016][06/33][MQA/FA9354]	SEGi University & University of Chichester, UK * *via credit transfer, upon fulfilling requirements	• STPM - 2 principal passes including Mathematics and 1 relevant Natural Science subject • A-Level - 2 principal passes including Mathematics and 1 relevant Natural Science subject • UEC - 5 Bs MUST include Mathematics and 1 relevant Natural Science subject • Foundation Studies - CGPA of at least 2.00 in a relevant field from an institute of higher education recognised by the Malaysian Government • Diploma or other relevant fields with a minimum of CGPA 2.00 from a higher education institute recognised by the Malaysian Government • Other - Equivalent qualification recognised by Malaysian Government * Note: Natural Sciences subjects are Physics, Biology, Chemistry, etc. Students who do not meet the above criteria can undertake remedial programmes to attain the equivalent entry qualification.	Kota Damansara
Bachelor of Mechanical Engineering with Honours KD [R2/521/6/0146][10/27][MQA/FA12419]			
Bachelor of Electrical and Electronics Engineering with Honours KD [R2/0716/6/0007][10/28][MQA/FA1882]			
Bachelor of Chemical Engineering with Honours KD [R2/524/6/0011][06/29][MQA/FA1275]			
Bachelor of Mechatronics Engineering with Honours KD [N/0788/6/0007][03/31][MQA/PA17306]			
Bachelor of Science (Hons) Architecture KD [R2/0731/6/0015][11/31][MQA/FA8425]	SEGi University	• STPM - Minimum Grade C (NGMP 2.00) in any two subjects, with a credit in General Studies • Foundation - Minimum CGPA of 2.00 in a Foundation programme, with a credit in Mathematics. • Diploma or other relevant field with minimum of CGPA 2.00 from higher education institute recognised by the Malaysia Government • NSW Higher Certificate - Minimum Grade C in any two subjects under the New South Wales Higher Certificate. • SACE - Minimum of two Grade C passes in the South Australian Certificate of Education (SACE). • Canadian Pre-U / OSSD – Minimum score of 60 in any two subjects under the Canadian Pre-University (CPU) or Ontario Secondary School Diploma (OSSD).	
Bachelor in Quantity Surveying KD [R2/0734/6/0016][03/30][MQA/FA1239]		• STPM with a minimum of Grade C (CGPA 2.00) in any three (3) subjects; or • Matriculation/Foundation programmes (offered by HEPs recognised by the Government of Malaysia, or equivalent) with a minimum CGPA of 2.50; or • A-Levels with a minimum of Grade D in any three (3) subjects; or • Diploma (with respect to MQF level 4) in Quantity Surveying or related disciplines, with a minimum CGPA of 2.67 or not less than 60% overall marks. For applicants with a CGPA or overall marks less than 2.67 or 60%, respectively, their working experiences can be taken into consideration when assessing their applications. For applications with qualifications other than those listed above, applications will be assessed on a case-by-case basis, in accordance with the latest guidelines established by MOHE and MQA, and shall comply with BQSM's requirements	

Programme	Awarding Institution	Entry Requirements	Campus
Bachelor of Arts (Hons) in Interior Architecture KD (R2/0731/6/0008)(05/32)(MQA/FA1340)	SEGi University	• STPM - 2 principal passes • A-Level - 2 principal passes • UEC - 5 Bs • Foundation Studies - CGPA at least 2.00 in relevant field from institute of higher education recognised by the Malaysian Government • Diploma or other relevant field with minimum of CGPA 2.00 from higher education institute recognised by the Malaysian Government • Other - Equivalent qualification recognised by Malaysia Government Additional Requirements • Passed in Art/ Technical Drawing subject in SPM or equivalent OR Passed portfolio assessment interview for those who failed or did not take Art subject	Kota Damansara
Diploma in Electrical and Electronics Engineering SJ (R3/0712/4/0006)(11/27)(MQA/FA2829)	SEGi College	• SPM/SPMV/O-level or equivalent: At least 3 credits, including Mathematics and a Science/Technical/Vocational subject, and passed English. • UEC/STPM/STAM or equivalent: Specific requirements include at least grade B in UEC subjects, a pass and credit in STPM subjects, or Pangkat Maqbul in STAM, with required passes in Mathematics, English, and a Science/Technical/Vocational subject. • Vocational/Technical Certificates: Sijil Kemahiran Malaysia (Tahap 3 KKM) or equivalent with relevant experience or bridging program completion. • International Students: TOEFL score of 500 or IELTS score of 5.0 or equivalent. If not met, an English course will be provided to ensure proficiency. • MQA APEL (Accreditation of Prior Experiential Learning): Admission to the Diploma programme based on APEL T-4 requirements.	Subang Jaya
Diploma in Mechanical Engineering SJ (R3/521/4/0014) (03/27) (A 7749)			
Diploma in Interior Architecture SJ (R3-TVET/0731/4/0013)(11/27)(TVET/QF14618)			
Foundation in Science KD (R3/0011/3/0195)(07/32)(MQA/A4432) SJ (R3/0011/3/0083)(04/28)(A7755) ODL (R-DL/0011/3/0233)(02/33)(02/33)(MQA/PA14176)	SEGi	• SPM/O-Level - min. 5 credits including Mathematics and 2 Science subjects • UEC – min. B in 3 subjects including Mathematics & 2 Science subjects Additional Requirements • Credit in Maths and 2 Sciences at SPM / O-Level or equivalent	Kota Damansara Subang Jaya
Foundation in Arts KD (R3/0011/3/0208)(07/33)(MQA/FA0193) SJ (R3/0011/3/0082)(07/31)(MQA/FA0452) ODL (R-DL/0011/3/0234)(02/31)(MQA/PA14175)		• SPM/O-Level or equivalent – min. 5 credits • UEC – min. B in 3 subjects	

* English Language Requirements for Diploma and Degree programmes:
The applicants must have a minimum of
• IELTS 5.0 • MUET Band 3.5 • TOEFL 40(iBT)/7.5(Essentials) • PEARSON (PTE) 47 • Cambridge English 154 • ELS CIEP Level 107 or equivalent.

BACHELOR OF ELECTRICAL & ELECTRONICS ENGINEERING WITH HONOURS

KD (R2/0716/6/0007)(10/28)(MQA/FA1882)

FULLY ACCREDITED MOBILITY

Programme Modules

Year 1

- Analogue Electronics I **H**
- Circuits and Signals I **C**
- Circuits and Signals II **C**
- Communication System
- Digital Electronics I **G**
- Digital Electronics II **H**
- Engineering Drawing **A**
- Engineering Mathematics I
- Engineering Mathematics II
- Laboratory Investigations I

Year 2

- Analogue Electronics II **I**
- Computational and Numerical Analysis with Python **E**
- Control Systems
- Electrical Power Generation **D**
- Electromagnetic Fields and Waves
- Engineering Statistics
- Environmental Management & Technology
- Laboratory Investigations II
- Measurement and Instrumentation
- Microprocessor
- Power Electronics **D**
- Programming for Engineers **F**

Year 3

- Computer Architecture
- Design of Electrical and Protection System
- Digital Signal Processing
- Electrical Machines & Drives **D**
- Embedded System **B**
- Engineers and Society
- Industrial Training
- Integrated Design Project I **B**
- Integrated Design Project II **B**
- Laboratory Investigations III
- Laboratory Investigations IV
- Power System Analysis **J**
- Project Management, Planning and Control

Year 4

- Big Data Analytics
- Electrical Energy Utilisation **D**
- Electronic Drives & Application **D**
- Electronics System Analysis and Design
- Final Year Project 1
- Final Year Project 2 **B**
- High Voltage Engineering **D**
- Elective 1 **
- Elective 2 **

Elective (Choose any 2) **

- Energy Conversion **D**
- Advanced Microprocessor
- Electrical Installation and Practices
- PLC & SCADA **K**

Digital Technology & Software

A AutoCAD	E Python	I Multisim
B Arduino IDE	F Dev C++	J Power world Simulator
C LTspice	G Proteus	K Omron PLC
D MATLAB	H PSpice	

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.

POWERING A SMARTER, SUSTAINABLE FUTURE

- SDG & ESG Integration for sustainable energy, innovation and responsible engineering.
- Flexible Electives in Energy Conversion, Electrical Installation, AI, PLC & SCADA, and Advanced Microprocessors.
- Practical Industry Exposure in power systems, automation, control, AI and Industry 4.0.
- Accredited by BEM

Bachelor of Electrical & Electronics Engineering with Honours



Master of Engineering (Hons) Electrical & Electronics Engineering



* via credit transfer, upon fulfilling requirements



1. No Poverty
4. Quality Education
6. Clean Water And Sanitation
7. Affordable And Clean Energy
8. Decent Work And Economic Growth
9. Industry, Innovation And Infrastructure
11. Sustainable Cities And Communities
12. Responsible Consumption And Production
13. Climate Action
14. Life Below Water
15. Life On Land

Mode of Study

- Full time

Career Opportunities

As graduates of the Bachelor of Electrical & Electronics Engineering with Honours programme, you will have a wide choice of careers in sectors including IoT, robotics & Automation, Control & Instrumentation, Electric Power utilities, and Renewable Energy industry.



BACHELOR OF CHEMICAL ENGINEERING WITH HONOURS

KD (R2/524/6/0011)(06/29)(MQA/FA1275)

FULLY ACCREDITED MOBILITY

Programme Modules

Year 1

- Chemical Engineering Laboratory I
- Engineering Drawing **A**
- Engineering Mathematics 1
- Engineering Mathematics 2
- Fluid Mechanics
- Mass and Energy Balances
- Materials Science
- Physical and Organic Chemistry
- Thermodynamics

Year 2

- Chemical Engineering Laboratory II
- Chemical Engineering Laboratory III
- Chemical Engineering Laboratory IV
- Chemical Engineering Thermodynamics
- Computational and Numerical Analysis with Python **B**
- Computer Aided Chemical Engineering **C**
- Electrical Technology
- Engineering Statistics
- Heat and Mass Transfer
- Particle Technology
- Project Year I
- Project Year II **C**
- Separation Processes II
- Separation Processes I
- Strength of Materials

Digital Technology & Software

- A** AutoCAD
- B** Python
- C** Aspen HYSYS
- D** MATLAB

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.

Year 3

- Biochemical Engineering Principle
- Chemical Engineering Laboratory V
- Chemical Reaction Engineering
- Engineers and Society
- Environmental Management and Technology
- Industrial Training
- Process Control and Instrumentation
- Project Management and Economics
- Project Year III **A**
- Separation Processes III
- Transport Phenomena

Year 4

- Big Data Analytics
- Chemical Process Safety
- Design Project I **C**
- Design Project II **C**
- Entrepreneurship
- Fuel Energy and Utilization
- Process and Plant Design
- Research Methodology **D**
- Research Project **D**
- Elective 1 **
- Elective 2 **

Elective (Choose any 2) **

- Artificial Intelligence
- Bioreactor Engineering Design
- Solid Waste Engineering
- Water and Wastewater Engineering

Bachelor of
Chemical Engineering with Honours



Master of Engineering (Hons)
Chemical Engineering



* via credit transfer,
upon fulfilling requirements



- 6. Clean Water And Sanitation
- 7. Affordable And Clean Energy
- 8. Decent Work And Economic Growth
- 9. Industry, Innovation And Infrastructure
- 11. Sustainable Cities And Communities
- 12. Responsible Consumption And Production
- 13. Climate Action

Mode of Study

- Full time

Career Opportunities

Chemical engineering offers a broad range of career opportunities in a variety of sectors: Oil & Gas, Chemical Industries, Food & Beverages, Environmental & Sustainable Development, Energy Management, Manufacturing, Pharmaceutical/healthcare and Semiconductor industries.

SUSTAINABLE INNOVATIONS FOR A BETTER TOMORROW THROUGH CHEMICAL ENGINEERING

- Incorporation of SDGs & ESG focused principles in chemical engineering syllabus, which includes SDG 6, 7, 8, 9, 11, 12 & 13.
- Comprehensive exposure to industrial and IR4.0 driven projects, guided by external industry professional engineers
- Accredited by BEM

DESIGNED & DELIVERED BY ENGINEERS FOR ENGINEERS

- Taught by professional engineers registered with BEM
- Lecturers with consultancy & research experience
- Accredited by BEM

BACHELOR OF CIVIL ENGINEERING WITH HONOURS

KD (R3/0716/6/0016) (06/33) (MQA/FA9354)

FULLY ACCREDITED MOBILITY

Programme Modules

Year 1

- Construction Materials
- Engineering Drawing **A**
- Engineering Mathematics I
- Engineering Mathematics II
- Engineering Surveying
- Fluid Mechanics
- Mechanics of Materials
- Programming for Engineers **B**
- Soil Mechanics I
- Statics And Dynamics

Year 2

- Building Information Modelling (BIM) **C**
- Computational and Numerical Analysis with Python
- Construction Project Management
- Construction Technology
- Engineering Statistics
- Estimating & Costing of Buildings
- Hydraulics
- Hydrology
- Soil Mechanics II
- Structural Analysis I

Digital Technology & Software

- A** AutoCAD
- B** Dev C++
- C** AutoDesk Revit
- D** ProtaStructure
- E** Python

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.

Year 3

- Conceptual Design **C**
- Design of Reinforced Concrete Structures I
- Design of Reinforced Concrete Structures II
- Design of Steel and Timber Structures **D**
- Engineering Applications and Analysis **D**
- Engineers & Society
- Environmental Management & Technology
- Geotechnics
- Highway Engineering
- Structural Analysis II
- Water Resources & Supply Engineering

Year 4

- Big Data Analytics
- Foundation Design
- Industrial Training
- Integrated Project **D**
- Project and Research Methods
- Project and Research Methods
- Traffic and Transportation Engineering
- Elective 1 **
- Elective 2 **

Elective (Choose any 2) **

- Artificial Intelligence **E**
- Advanced Reinforced concrete
- Concrete Technology
- Design of Steel Structures II **D**
- Hydraulics Structures

Bachelor of
Civil Engineering with Honours



Master of Engineering (Hons)
Civil Engineering



* via credit transfer,
upon fulfilling requirements



- 6. Clean Water And Sanitation
- 8. Decent Work And Economic Growth
- 9. Industry, Innovation And Infrastructure
- 11. Sustainable Cities And Communities
- 12. Responsible Consumption And Production
- 13. Climate Action

Mode of Study

- Full time

Career Opportunities

As civil engineers, your career opportunities are vast and varied, depending on your area of specialisation and interest. Your potential employers include local and international consulting firms, construction companies and research institutions, as well as all levels in government.

BACHELOR OF MECHANICAL ENGINEERING WITH HONOURS

KD [R2/S21/6/0146](10/27)(MQA/FA12419)

FULLY ACCREDITED MOBILITY

Programme Modules

Year 1

- Advanced Engineering Drawing **A**
- Electrical and Electronic Circuits and Applications
- Engineering Drawing **A**
- Engineering Materials
- Engineering Mathematics 1
- Engineering Mathematics 2
- Fundamental Engineering Mechanics
- Manufacturing Processing & Technology
- Programming for Engineers **B**
- Thermodynamics

Year 2

- 3D Engineering Design & Modelling **D**
- 3D Engineering Design Analysis **D**
- Computational and Numerical Analysis with Python **C**
- Electrical Machines
- Engineering Mechanics
- Fluid Mechanics
- Heat Transfer
- Introductory Six Sigma
- Measurement and Instrumentation
- Solid Mechanics

Digital Technology & Software

- A** AutoCAD **C** Python **E** Ansys FEA
- B** Dev C++ **D** Autodesk Inventor **F** Autodesk Fusion 360

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.

BE AT THE FOREFRONT OF IR4.0 AND BEYOND

- Lecturers with consultancy & research experience
- World-class facilities
- Accredited by BEM

Year 3

- Advanced Fluid Mechanics
- Control and System Engineering
- Design of Machine Elements **D**
- Engineers and Society
- Environmental Management and Technology
- Industrial Training
- Integrated Design Project I **D**
- Integrated Design Project II
- Project Management, Planning and Control

Year 4

- Advanced Engineering Materials
- Advanced Solid Mechanics
- Advanced Thermodynamics
- Big Data Analytics
- Final Year Project 1
- Final Year Project 2
- Finite Element Analysis **E**
- Vibrations
- Elective 1 **
- Elective 2 **

Elective (Choose any 2) **

- Artificial Intelligence
- 3D Printing Technology **F**
- Advanced Manufacturing Technology
- Computational Fluid Dynamics
- Heat, Ventilation & Air Conditioning (HVAC)
- PLC & SCADA

Bachelor of Mechanical Engineering with Honours



Master of Engineering (Hons) Mechanical Engineering



*via credit transfer, upon fulfilling requirements



- 6. Clean Water And Sanitation
- 7. Affordable And Clean Energy
- 8. Decent Work And Economic Growth
- 9. Industry, Innovation And Infrastructure
- 11. Sustainable Cities And Communities
- 12. Responsible Consumption And Production
- 13. Climate Action

Mode of Study

- Full time

Career Opportunities

As graduates of the Mechanical Engineering, you will have the necessary knowledge and skills to play a major role in design, consultancy, management, and manufacturing in developing sustainable energy solutions and fighting climate change. Mechanical engineers are highly demanded in industries such as aerospace, automotive, renewable energy, and more.

AI & IoT: ENGINEERING A CONNECTED FUTURE

- Real-World Application
- Career Versatility & Global Opportunities
- Cutting-Edge Research

BACHELOR OF MECHATRONICS ENGINEERING WITH HONOURS

KD [N/0788/6/0007](03/31)(MQA/PA17306)

FULLY ACCREDITED MOBILITY

Programme Modules

Year 1

- Advanced Engineering Drawing **A**
- Analogue Electronics I **B**
- Digital Electronics I
- Electrical and Electronic Circuits and Applications
- Engineering Drawing **A**
- Engineering Materials **A**
- Engineering Mathematics 1
- Engineering Mathematics 2
- Fundamental Engineering Mechanics
- Programming for Engineers

Year 2

- 3D Engineering Design Analysis **C**
- 3D Engineering Design and Modelling **C**
- Computational and Numerical Analysis with Python **D**
- Engineering Mechanics
- Engineering Statistics
- Manufacturing Processing & Technology
- Measurement and Instrumentation
- Microprocessor
- Power Electronics
- Solid Mechanics
- Thermodynamics

Year 3

- Control Systems **E**
- Design of Machine Elements **C**
- Electrical Machines & Drives
- Embedded System
- Engineers and Society
- Industrial Training
- Integrated Design Project I **C**
- Integrated Design Project II **C**
- Introductory Six Sigma **D**

Digital Technology & Software

- A** AutoCAD **D** Python
- B** PSpice **E** MATLAB
- C** Autodesk Inventor

Year 4

- Big Data Analytics
- Electronic Drives & Application
- Environmental Management and Technology
- Final Year Project 1
- Final Year Project 2
- Fluid Mechanics
- Project Management, Planning and Control
- Vibration
- Elective 1 **
- Elective 2 **

Elective (Choose any 2) **

- Artificial Intelligence **D**
- Automation and Robotics
- Finite Element Analysis
- Introduction to IoT
- Machine Vision and Image Processing
- PLC & SCADA

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.

Mode of Study

- Full time

Career Opportunities

SEGi's Mechatronics Engineering graduates are prepared for diverse careers like Mechatronics Engineer, Automation Engineer, Robotics Engineer, IoT Systems Engineer, Automotive Engineer, Aerospace Engineer, Consumer Electronics Engineer, Research Engineer, Academic/Lecturer, Entrepreneur/Startup Founder, and Sustainability/Environmental Engineer. With expertise in IoT, AI, and digital technologies, they can take on leadership roles, drive innovation, pursue design, development, research, establish startups, and contribute to sustainable solutions.

Bachelor of Mechatronics Engineering with Honours



Master of Engineering (Hons) Mechatronics Engineering



*via credit transfer, upon fulfilling requirements



- 1. No Poverty
- 4. Quality Education
- 7. Affordable And Clean Energy
- 8. Decent Work And Economic Growth
- 9. Industry, Innovation And Infrastructure
- 10.Reduced Inequalities
- 11. Sustainable Cities And Communities
- 12. Responsible Consumption And Production
- 13. Climate Action
- 15. Life On Land
- 16. Peace, Justice And Strong Institutions
- 17. Partnerships For The Goals



PRECISION, VALUE & INDUSTRY EXCELLENCE

- Fully accredited by the Board of Quantity Surveyors Malaysia (BQSM), Royal Institution of Chartered Surveyors (RICS) & Pacific Association of Quantity Surveyors (PAQS)
- Focused on critical analytical skills & value engineering
- Taught by lecturers with industry experience

BACHELOR IN QUANTITY SURVEYING

KD [R2/0734/6/0016][03/30][MQA/FA1239]

FULLY ACCREDITED MOBILITY

Programme Modules

- Year 1**
- Basic Architectural and Engineering Design
 - Basic Drawing and AutoCAD **A**
 - Building Construction I
 - Building Construction II
 - Building Services I
 - Construction Economics I
 - Construction Materials
 - Geomatic Engineering
 - Introduction To Measurement of Building Works
 - Principle of Economics
 - Quantity Surveying Practice I

- Year 2**
- Building Services II
 - Civil and Infrastructures Construction Works
 - Construction and Project Management **B**
 - Information Communication Technology (ICT)
 - Legal Studies I
 - Legal Studies II
 - Measurement of Building Works I
 - Measurement of Building Works II
 - Quantity Surveying Practice II
 - Tendering and Estimating

Digital Technology & Software

- A** AutoCAD **C** SPSS
B MICROSOFT PROJECT **D** GLODON

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.

- Year 3**
- Measurement of Civil Engineering Works
 - Construction Economics II
 - Data Analysis and Statistic **C**
 - Dissertation I
 - Dissertation II
 - Financial Commercial Management
 - Industrial Training
 - Integrated Project **D**
 - Legal Studies III
 - Quantification & Computerisation **D**
 - Quantity Surveying Practice III
 - Value Engineering and Management



1. No Poverty
4. Quality Education
6. Clean Water And Sanitation
7. Affordable And Clean Energy
8. Decent Work And Economic Growth
9. Industry, Innovation And Infrastructure
10. Reduced Inequalities
11. Sustainable Cities And Communities
12. Responsible Consumption And Production
13. Climate Action
14. Life Below Water
15. Life On Land
16. Peace, Justice And Strong Institutions
17. Partnerships For The Goals

Mode of Study

- Full time

Career Opportunities

Quantity Surveyor, Contract and Cost Administrator, Property and Commercial Executive, Procurement Advisor & Contract Executive/Project Executive are some of the possible employment prospects for QS graduates.

BACHELOR OF ARTS (HONS) IN INTERIOR ARCHITECTURE

KD [R2/0731/6/0008][05/32][MQA/FA1340]

FULLY ACCREDITED MOBILITY

Programme Modules

- Year 1**
- Architecture Graphic
 - Architecture History 1
 - Architecture Principle and Communication
 - AutoCAD in Interior Design **A**
 - Building Construction 1
 - Building Construction 2
 - Building Services 1
 - Fundamental of Interior Architecture
 - Interior Materials and Furnishing
 - Residential Design

- Year 2**
- Advanced Interior Design 1
 - Advanced Computer Modelling **B**
 - Architecture History 2
 - Building Services 2
 - Commercial Design
 - Construction Contract Law
 - Furniture Design Workshop **C**
 - Lighting Design
 - Research Methods
 - Specification and Contract Documentation
 - Elective 1 **

- Year 3**
- Internship / Industrial Training
 - Advanced Interior Design 2
 - Professional Practice for Interior Designer
 - Project and Construction Management (3)

- Year 4**
- Design Project
 - Thesis

Elective (Choose any 1) **

- Building Information Modelling
- Environmental Psychology
- Software Application for Design

Digital Technology & Software

- A** AutoCAD
B AutoDesk 3Ds Max
C Sketchup

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.



3. Good Health And Well-Being
4. Quality Education
7. Affordable And Clean Energy
9. Industry, Innovation And Infrastructure
11. Sustainable Cities And Communities
12. Responsible Consumption And Production
13. Climate Action

Mode of Study

- Full time

Career Opportunities

A degree in interior architecture and design will equip you with the specific creative and technical skills you'll need to succeed in the field. Career opportunities are vast and varies from Technical Assistant, Junior Designer, Interior Designer, Interior Architect, Interior and Spatial Designer, Furniture Designer, Set & Exhibition Designer to Lighting and Colour Consultant and Project Manager.

INTERIOR ARCHITECTURE

TRANSFORMING SPACES, SHAPING THE FUTURE

- Taught by lecturers with industry experience
- Recognised by Board of Architects, Malaysia
- Subjects for the future: Sustainability & Green Technology



FUTURE-READY SUSTAINABLE ARCHITECTURE

- Accredited by Board of Architects, Malaysia
- Subjects for the future: Sustainability & Green Technology
- Led By Lecturers With Real-World Industry Experience
- Programme Shaped With Market Driven Skills, Industry Focused Experience

BACHELOR OF SCIENCE (HONS) ARCHITECTURE

KD (R3/0716/6/0016) (06/33) (MQA/FA9354)

FULLY ACCREDITED MOBILITY

Programme Modules

Year 1

- Design Studio 1
- Architectural Communication
- Architectural Graphics
- Architecture History 1
- Architecture History 2
- Building Construction 1
- Building Materials
- Design Studio 2
- Environmental Science 1
- Environmental Science 2

Year 2

- Advanced CAD **C**
- Asian Architecture
- Basic CAD **A**
- Building Construction 2
- Building Services 1
- Business Ethics
- Design Studio 3 **B**
- Design Studio 4 **B**
- Structure 1
- Structure 2
- Working Drawing **A**

Digital Technology & Software

- A** AutoCAD
- B** Sketchup
- C** D5 Render
- D** Autodesk Revit

Year 3

- Building Information Modelling **D**
- Building Services 2
- Construction Project Management
- Design Studio 5 **D**
- Design Studio 6 **D**
- Industrial Training
- Measured Drawing **A**
- Professional Studies
- Sustainable Building Design

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.



- 3. Good Health And Well-Being
- 7. Affordable And Clean Energy
- 9. Industry, Innovation And Infrastructure
- 11. Sustainable Cities And Communities
- 13. Climate Action
- 14. Life Below Water
- 15. Life On Land

Mode of Study

- Full time

Career Opportunities

Assistant Architect, Technical Assistant, CAD Operator, Construction Supervisor, 3D Visualiser, Graphic Artist, Creative Designer, BIM Coordinator, Model Maker.

DIPLOMA IN MECHANICAL ENGINEERING

SJ (R3/521/4/0014) (03/27) (A 7749)

FULLY ACCREDITED MICRO-CREDENTIALS APEL A/C MOBILITY

Programme Modules

Year 1

- Engineering Drawing
- Statics
- Engineering Mathematics 1
- Advanced Engineering Drawing
- Material Engineering
- Principle of Electronics and Electrical Engineering
- Engineering Mathematics 2
- Thermodynamics
- Fluid Mechanics
- Programming Fundamentals

Year 2

- Mechanics of Material 1
- Manufacturing Technology
- Instrumentation and Measurement
- Engineering Statistics
- 3D Design Modelling
- Final Year Project 1
- Mechanics of Material 2
- Engineering Dynamics
- Heat Transfer
- Industrial Management
- Machine Design
- Final Year Project 2

Year 3

- Internship

Mode of Study

- Full time

Career Opportunities

Graduates of the Diploma in Mechanical Engineering may pursue careers as mechanical engineers, mechanical technicians, maintenance technicians or engineers, production supervisors, quality control or quality assurance inspectors, CAD drafters, mechanical designers, field service technicians or engineers, HVAC technicians, CNC programmers, and manufacturing technicians.

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.

BUILDING A STRONG FOUNDATION TO A MECHANICAL ENGINEERING DEGREE

- Taught by lecturers with industry experience
- World-class facilities





BUILDING A
STRONG FOUNDATION
TO AN E&E DEGREE

- Taught by lecturers with industry experience
- E&E labs and simulation equipment

DIPLOMA IN ELECTRICAL AND ELECTRONIC ENGINEERING

SJ [R3/0712/4/0006](11/27)(MQA/FA2829)

FULLY ACCREDITED MICRO-CREDENTIALS APEL A/C MOBILITY

Programme Modules

Year 1

- Engineering Mathematics 1
- Foundation Physics
- Engineering Drawing
- Principle of Electronics and Electrical Engineering
- Digital Electronics
- Lab Investigations I
- Engineering Mathematics 2
- Circuit Theory
- Analogue Electronics
- Lab Investigations II
- Programming Fundamentals

Year 2

- Instrumentation and Measurement
- Electromagnetic Fields and Waves
- Microprocessors and Microcontrollers
- Control System
- Introduction to Robotics and Industrial Simulation
- Electrical Machines
- Communication System
- Final Year Project 1
- Introduction to IoT
- Power Electronics
- Power System
- Final Year Project 2

Year 3

- Internship



* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.

DIPLOMA IN INTERIOR ARCHITECTURE

SJ [R3-TVET/0731/4/0013](11/27)(TVET/GF14618)

FULLY ACCREDITED MICRO-CREDENTIALS APEL A/C MOBILITY

Programme Modules

Year 1

- 2&3 Dimensional Design
- Colour Studies
- Fundamental Photography
- Architectural Drafting
- Interior Architecture 1
- Material & Finishes
- Digital Graphic
- General Language Training
- Interior Architecture 2
- AutoCAD Studies
- Building Construction
- Workshop Practice

Year 2

- Computer 3D Modelling
- History of Architecture
- Lighting Design
- Academic English
- Interior Architecture 3
- Furniture Design
- Design Methods
- Portfolio Preparation
- Interior Architecture 4

Year 3

- Industrial Training

Mode of Study

- Full time

Career Opportunities

Graduates of the Diploma in Interior Architecture may pursue careers as interior designers, junior interior designers, interior design consultants, space planners, CAD or interior design drafters, 3D visualisers, architectural visualisation artists, interior design coordinators, exhibition and retail designers, and furniture designers.

* Students are also required to undertake 3 courses from the Centre of Excellence in AI and Mata Pelajaran Umum (MPU) as required by the Ministry of Higher Education, Malaysia.

DESIGNED FOR VERSATILE SPACE DESIGNERS OF THE FUTURE

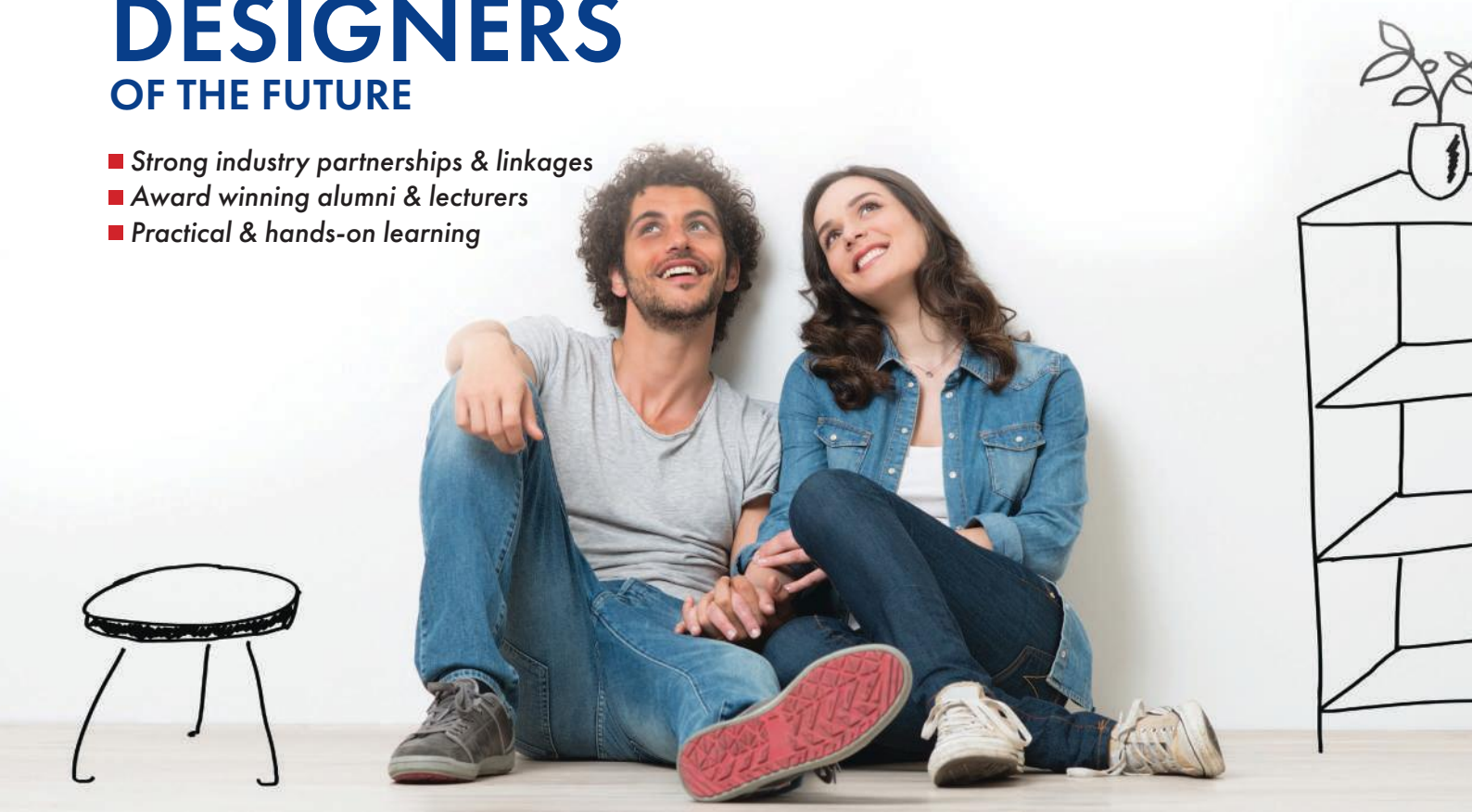
- Strong industry partnerships & linkages
- Award winning alumni & lecturers
- Practical & hands-on learning

Mode of Study

- Full time

Career Opportunities

Graduates of the Diploma in Electrical and Electronic Engineering may pursue careers as electrical technicians, electronics technicians, maintenance technicians, automation technicians, power plant technicians, electrical design technicians, telecommunications technicians, solar PV technicians, quality control technicians, and field service engineers or technicians.





DISCOVER YOUR PASSION IN SCIENCE

WHILE KEEPING YOUR OPTIONS OPEN

- Fastest pathway into a wide variety of Degree Programmes
- Build a strong foundation in Science

FOUNDATION IN SCIENCE

KD [R3/0011/3/0195][07/32][MQA/A4432] • ODL [R-DL/0011/3/0235][02/33][MQA/PA14176]

Programme Modules

Year 1

- Chemistry 1
- Mathematics 1
- Chemistry 3
- Mathematics 3
- Academic English
- Computer Application
- Chemistry 2
- Mathematics 2
- Elective 1*
- Elective 2*
- Elective 3*
- Elective 4*
- Elective 5*

Pathways (Each pathways consists of 5 Electives)

General

- Biology 1
- Physics 1
- Biology 2
- Physics 2
- Physics 3

Health Sciences

- Biology 1
- Public Speaking
- Biology 2
- Information Technology
- Introduction to Patient Care

Engineering

- Physics 1
- Public Speaking
- Physics 2
- Information Technology
- Physics 3

* Electives are subject to change without prior notice.
* Students intending to articulate into the Health Sciences degree programmes will have a choice to take either General or Health Sciences Pathway.
* Students intending to articulate into Engineering degree programmes will have a choice to take either General or Engineering Pathway.

FOUNDATION IN SCIENCE

SJ [R3/0011/3/0083][04/28][A7755]

Programme Modules

- | | | |
|--|---|---|
| <ul style="list-style-type: none">• Chemistry I• Mathematics I• Physics I• Biology I• English I• Chemistry II | <ul style="list-style-type: none">• Mathematics II• Physics II• Basic Information and Communication Technologies (ICT)• English II• Chemistry III | <ul style="list-style-type: none">• Engineering Mathematics• Physics III• Biology II• Biochemistry• Thinking Skills |
|--|---|---|

Why study this programme?

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 sciences or degree programmes engineering.

FOUNDATION IN ARTS

KD [R3/0011/3/0208][07/33][MQA/FA0193] • SJ [R3/0011/3/0082][07/31][MQA/FA0452] • ODL [R-DL/0011/3/0234][02/31][MQA/PA14175]

Programme Modules

Year 1

- General Language Training
- Computer Application
- Introduction to Business
- Mathematics
- Statistics
- Academic English
- Public Speaking
- Critical Thinking Skills
- Principles of Economics
- Elective 1
- Elective 2
- Elective 3
- Elective 4
- Elective 5

Pathways (Each pathways consists of 3 Electives)

Business & Accounting

- Introduction to Financial Accounting
- Fundamental of Management
- Intercultural Communication
- Information Technology
- Introduction to Marketing

Communication Studies/English & PR

- Interpersonal Communication
- Intercultural Communication
- Fundamental Photography
- Information Technology
- Introduction to Marketing

Information Technology

- Programming Methodology
- Interpersonal Communication
- Fundamental of Management
- Intercultural Communication
- Information Technology

Quantity Survey/Hospitality/Education/Psychology

- Information Technology
- Interpersonal Communication
- Fundamentals of Management
- Introduction to Marketing
- Intercultural Communication

Creative Design/Architecture/Interior Architecture

- Colour & Form
- Drawing Fundamentals
- Fundamental Photography
- Intercultural Communication
- Interpersonal Communication

Why study this programme?

This qualification is specially designed for students with SPM, O-Level or equivalent qualifications and who would like to pursue a bachelor's degree at the university. Upon successful completion of the Foundation in Arts programme, students may further their studies in a wide range of degree programmes depending on units completed during their studies. Students may be eligible to apply for advanced standing.

A FOUNDATION WITH THE WIDEST PATHWAYS

- Fastest pathway into a wide variety of Degree Programmes
- 14 electives to choose from





SEGi University (100589-U)

☎ 603 6145 1777 ☎ 011 1501 8838

SEGi College Kuala Lumpur (42114-V)

☎ 603 2070 2078 ☎ 012 988 7482 ☎ 1800 88 8028

SEGi College Subang Jaya (284515-V)

☎ 603 8600 1777 ☎ 010 313 0303

SEGi College Petaling Jaya (DK250-01W)

☎ 603 6145 1777 ☎ 011 1501 8838

SEGi College Penang (187620-W)

☎ 604 263 3888 ☎ 013 629 4880

SEGi College Sarawak (172726-T)

☎ 6082 252 566 ☎ 017 859 2566 ☎ 1300 88 7344

SEGi University Regional Centre, Johor Bahru

☎ 607 235 9188

The best in you, made

POSSIBLE

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