



**SEGi**  
University  
& Colleges

---

# INFORMATION TECHNOLOGY

/,ɪn.fə'meɪ.ʃən/ /tek'nɒl.ə.dʒi/ **noun**

---

1. Specialisations in AI, Digital Transformation, Cybersecurity and Data Analytic
2. State-of-the-art facilities that inspires innovation
3. Collaboration with leading industry partners
4. Academic experts with industry experience

Collaboration with



### Programme accreditations and recognitions



MINISTRY OF HIGHER EDUCATION



# ONE OF THE LARGEST & LEADING 48 YEARS AT

ONE OF THE ONLY 24 QS 5-Stars Rated University in the World



Teaching



Internationalisation



Online Learning



Arts & Culture



Employability



Academic Development



Bachelor of Medicine and  
Bachelor of Surgery (MBBS)



Inclusiveness



# NG HIGHER EDUCATION GROUP IN MALAYSIA T THE FOREFRONT OF EDUCATION

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

Quality education accredited and assured by the Malaysian Ministry of Education and other organisations



Partner Universities and Institutions

# YOUR GATEWAY TO LEADING GLOBAL INSTITUTIONS

Consortium of Global Research and Mobility Partners



# OUR PARTNER UNIVERSITY



University of Greenwich (UoG), UK  
2024 - 2025



**691 - 700<sup>th</sup>** WORLD UNIVERSITY RANKINGS

**97<sup>th</sup>** EUROPE UNIVERSITY RANKINGS NORTHERN EUROPE



**501 - 600<sup>th</sup>** WORLD UNIVERSITY RANKINGS

**89<sup>th</sup>** IMPACT RANKINGS

**97%** INTERNATIONAL OUTLOOK SCORING

**301 - 400<sup>th</sup>** BUSINESS & ECONOMICS SUBJECT RANKING

**401 - 500<sup>th</sup>** SOCIAL SCIENCES SUBJECT RANKING

**501 - 600<sup>th</sup>** EDUCATION SUBJECT RANKING

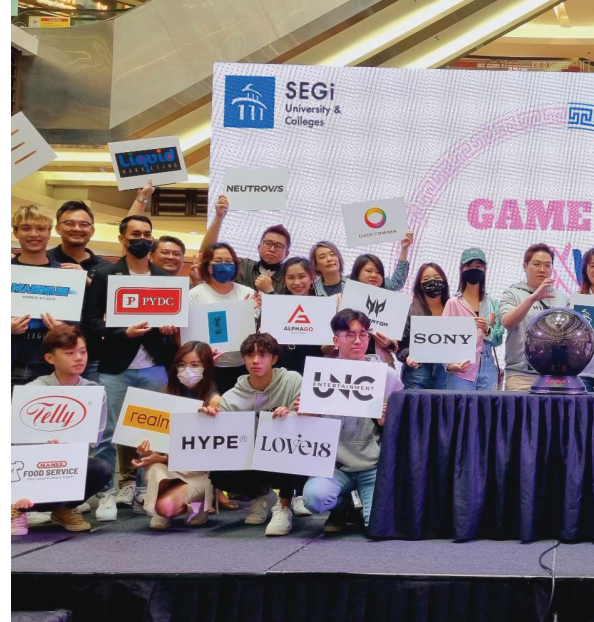
**601 - 800<sup>th</sup>** COMPUTER SCIENCE SUBJECT RANKING



# LEARN UNDER THE BIGGEST & BRIGHTEST FROM THE INDUSTRY

To excel in your career from day one, you need cross-disciplinary skills, industry insights, and technical know-how. These are often not adequately provided by traditional education methods like written assignments, industry visits, or internships.

Our programmes integrate industry expertise directly into the classroom experience. Co-designed, co-delivered, and co-assessed by industry professionals, our programmes offer hands-on learning opportunities with over 300 partner brands. The aim is to ensure you have real-world experience and secure job or business opportunities before graduation.



Winner of the  
**Employers' Choice Award**  
by Talentbank for  
**TWO CONSECUTIVE YEARS**





# YOUR WORK EXPERIENCE COUNTS!

SHORTEST & FASTEST PATHWAY FOR ADULT LEARNERS



### SKIP ENTRY REQUIREMENTS: DIRECT ENTRY PATHWAY

Can't meet the entry requirements? APEL.A is the preferred alternative pathway to qualify yourself for a programme.



### STUDY FIRST AND GET AUTOMATICALLY QUALIFIED LATER

Start studying first and you will automatically be qualified once you pass more than 50% of the subjects.



### SHORTEN YOUR STUDY DURATION

Cut your studying duration up to 50% using your experience from work & training!



### GET A QUALIFICATION WITHOUT STUDYING

Convert your work experience into a fully recognised qualification.

CANNOT COMMIT FOR A FULL-FLEDGED PROGRAMME?

# "ALA-CARTE" YOUR EDUCATION

### BUILD YOUR QUALIFICATION SUBJECT BY SUBJECT

Not ready to take on a full-fledged programme? Enrol in 1 subject as a micro-credential first. Accumulate the subjects over time and stack them up to become a full-fledged qualification.

PROFESSIONAL PROGRAMMES

4 MICRO-CREDENTIAL SUBJECTS

DEGREE/DIPLOMA

6 PROFESSIONAL PROGRAMMES



# QUALITY EDUCATION WITHIN REACH

## PROGRAMMES THAT SUITS YOUR NEEDS

Mode of Study	Full time	Programme is offered in full time mode
	Weekend	The weekend programme is also designed to suit adult learners to complete within the shortest timeframe possible
	ODL	Open and Distance Learning (ODL) mode is a fully-online learning mode suited to students who wishes to study off-campus
	WBL	Work-Based Learning (WBL) is an innovative mode of delivery where SEGi partners with a renowned brand to deliver the programme. Students get the best of both worlds in their studies – theoretical know-how from SEGi and practical learning from the industry
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/M/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
	APEL Q	The APEL.Q programme enables students to convert work experience into a recognised qualification without going through the conventional teaching and learning of a 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.
	HRDC-Claimable	All our programmes are claimable under HRD Corp

# WHY STUDY COMPUTING OR INFORMATION TECHNOLOGY?

Do you see yourself designing and creating software systems? Information Technology (IT) or computing might be the right course of study for you if you are thinking of becoming a manager or administrator to a technical enterprise, a degree in computer science or information technology and computer sciences could provide you with the background needed to achieve your goals. Here are 9 reasons why a computing or IT course is right for you!



## It is a fast-growing sector

According to OpenGovAsia.com, the Information and Communication Technology (ICT) market in Malaysia is set to grow at a compound annual growth rate of 8.9% between 2019 to 2023 (ie. US\$16.5 billion to US\$25.2 billion in 2023). The sector has also seen a steady increase in its contribution towards Malaysia's GDP from 18.1% (RM213 billion) in 2015 to 19.1% (RM289 billion) in 2019.



## Raising need for cloud computing and outsourcing services

Mobility, cloud computing, data analytics, storage, and business process outsourcing have been forecasted to be the 5 leading IT solution areas in terms of growth rate. Accelerated by the Pandemic, the Asia Pacific region has become one of the fastest-growing regions in terms of cloud computing. Countries like Singapore, Australia, India, Japan, China, and South Korea are consistently recording higher growth rates in cloud computing.

## Government propelled growth

The Malaysian Government's Industry4WRD national policy aims to transform and digitalise the manufacturing sector and related services between 2018 to 2025. The 2020 Malaysian Economic Stimulus Package also provides strong incentives in digital transformation, connectivity and digital infrastructures for buildings. These policies are expected to lead to a mature digitalisation of the Malaysian market - do you see the opportunities awaiting?



## The rise of Asia

China now hosts 26% of the world's unicorn startups, however, the country still relies heavily on imported core technologies from countries like Japan and South Korea. Meanwhile, Singapore intends to position itself as the "Silicon Valley of Asia" for IT and computing professionals seeking international career and entrepreneurial opportunities, which means there are opportunities virtually everywhere in Asia.



## Asia towards Industrial Automation and AI

Deloitte consulting China believes that industrial automation and industrial AI are entering a fast development period in Asia. Companies have begun adopting AI and big data to generate fast, adaptive, and long-term strategies to maximise competitiveness.



## High starting pay

Over the years, Malaysia has moved towards a highly sophisticated digital era where opportunities for online businesses that promise lucrative returns and career development have multiplied. No wonder the starting pay for Computer and Software Specialists averages between RM4,500 to RM6,000 per month, to put it into perspective, a fresh-grad doctor earns between RM3,000 to RM5,500!



## Develop transferable skills

Critical thinking and problem-solving go hand in hand and will help you whether you work on debugging a programme. Analytical skills are especially useful for professionals who work with big data or algorithms and are looking for patterns or creating instructions. These soft skills are easily transferable and highly demanded in other sectors as well if you're looking for a career shift in the future!



## High paying career

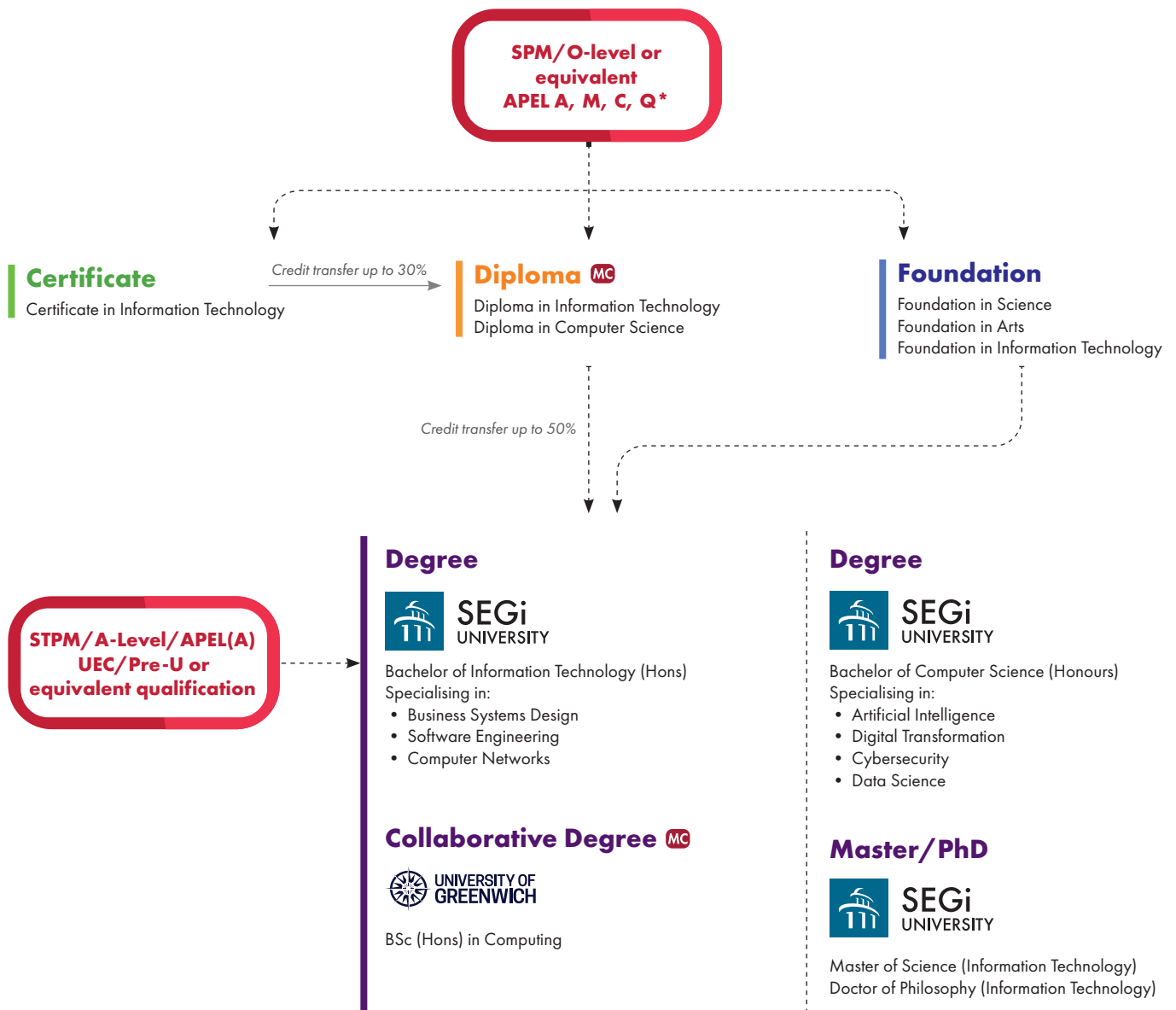
IT managers are among the top-paying jobs in the world. Responsible for protecting and securing a company's IT infrastructure and networks, they're among the most in-demand talents in the world with an average salary of USD142,000 per year.



## Change the world

IT and Computing drives innovation in the sciences (human genome project, AIDS vaccine research, environmental monitoring, and protection just to mention a few), and also in engineering, business, entertainment, and education. Who knows one day, you'll be a part of the team that changes the world.

# STUDY ROUTE



## Credit Transfer

Your previous studies and qualifications may earn you credits towards your diploma or degree. The award of credits is given on the basis of subject mapping and grades achieved. The maximum transferable credits you may earn for a previous academic qualification could be 50% of the total credits for 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 approval by the Senate or 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 rebundled into accredited and recognised qualifications.

# PROGRAMME MATRIX

Programme	Awarding Institution	Entry Requirements	Campus
Bachelor of Information Technology (Hons) Specialising in: <ul style="list-style-type: none"> <li>• Computer Networks</li> <li>• Software Engineering</li> <li>• Business Systems Design</li> </ul> <small>KD [R2/482/6/0195][12/24][MQA/A10376]</small>	SEGi University	<ul style="list-style-type: none"> <li>• A-Level – pass with 2 principals and credit in Mathematics for O-Level</li> <li>• UEC – pass with Grade B in 5 subjects (including Mathematics)</li> <li>• Pass in STPM with a minimum Grade of C (GP 2.00) in any TWO (2) subjects</li> <li>• Matriculation or Foundation - min. CGPA of 2.0 AND credit in Mathematics at SPM level</li> <li>• STPM – minimum grade of C (GP 2.00) in any TWO (2) subjects AND credit in Mathematics at SPM level</li> <li>• Diploma in Computing fields (Level 4, MQF) or equivalent with a minimum CGPA of 2.50. Candidates with a CGPA below 2.50 but more than 2.00 may be admitted subject to a thorough rigorous assessment</li> <li>• Diploma (Level 4, MQF) in Non-Computing with a minimum CGPA of 2.75. Candidates with a CGPA below 2.75 but more than 2.50 can be admitted subject to a thorough rigorous assessment AND credit in Mathematics at SPM level</li> <li>• Other relevant Diploma - with min. CGPA of 2.5 and a credit in Mathematics for SPM</li> <li>• International Students - minimum of Band 3.5 in MUET or equivalent to CEFR (High B1) (International Students)</li> </ul>	Kota Damansara
Bachelor of Computer Science (Honours) specialising in: <ul style="list-style-type: none"> <li>• Artificial Intelligence</li> <li>• Cybersecurity</li> <li>• Data Analytic</li> <li>• Digital Transformation</li> </ul> <small>KD [N/0613/6/0009][12/27][MQA/PA16019]</small>	SEGi University	<ul style="list-style-type: none"> <li>• Pass Matriculation or Foundation - min. CGPA of 2.0 AND credit in Add Math at SPM level or equivalent</li> <li>• Pass in STPM (Art Stream) with a minimum Grade of C (GP 2.00) in any TWO (2) subjects AND credit in Add Math at SPM level or equivalent</li> <li>• A pass in STPM (Science Stream) or its equivalent with a minimum Grade of C (GP 2.00) in Mathematics subject and ONE (1) Science / ICT subject</li> <li>• Any Diploma in Science and Technology (Level 4, MQF) with a minimum CGPA of 2.75. Candidates with a CGPA below 2.75 but more than 2.50 may be admitted subject to a thorough rigorous assessment AND credit in Add Math at SPM level or equivalent</li> <li>• Diploma in Computing fields (Level 4, MQF) or its equivalent with a minimum CGPA of 2.50 Candidates with a CGPA below 2.50 but more than 2.00 may be admitted subject to a thorough rigorous assessment</li> <li>• A-Level – pass with 2 principals and credit in Add Maths for O-Level</li> <li>• UEC - pass with Grade B in 5 subjects (including Add Maths)</li> <li>• International Students - minimum of Band 3.5 in MUE</li> </ul>	Kota Damansara
BSc in Computing <small>SI [R2/0611/6/0049][06/28][A9203]            KI [R3/0613/6/0062][05/29][A10000]            PG [R2/0614/6/0002][07/28][MQA/A9199]</small>	University of Greenwich, UK	<ul style="list-style-type: none"> <li>• UEC with 5 credits</li> <li>• STPM with Grade C in 2 subjects</li> <li>• A-Level with passes in 2 subjects</li> <li>• Matriculation / Foundation or equivalent with min. CGPA of 2.0</li> <li>• SAM / AUSMAT with min ATAR 60</li> <li>• Related SKM Level 5</li> <li>• Related Diploma</li> <li>• MQA-APEL T6</li> </ul> <p>Additional Requirements            Credit in Maths at SPM / O-Level or equivalent and min. CGPA 2.50</p>	Subang Jaya Kuala Lumpur Penang

Programme	Awarding Institution	Entry Requirements	Campus
<b>Diploma in Information Technology</b> KD (R3/0611/4/0051)(04/29)(A10294) KL (R3/0611/4/0224)(09/28)(A9341) SJ (R3/0611/4/0088)(04/27)(A7756) PG (R3/481/4/0264)(10/28)(A9340) SWK (R3/483/4/0408)(01/29)(A9765)	SEGi College	<ul style="list-style-type: none"> <li>• SPM/O-Level with 3 credits (including Mathematics); OR</li> <li>• Any equivalent qualification with 3 credits (including Mathematics); OR</li> <li>• UEC with Grade B in subjects (including Mathematics)</li> <li>• Other equivalent qualifications that recognised by the Malaysian Government.</li> </ul>	Kota Damansara Kuala Lumpur Subang Jaya Penang Sarawak
<b>Diploma in Computer Science</b> KD(N/481/4/0834)(11/28) (MQA/PA15040) KL (R/0613/4/0042)(08/28)(PA9727)		English Requirement for International Students <ul style="list-style-type: none"> <li>• IELTS (5.0) OR its equivalent</li> </ul> Additional Requirements Credit in Maths at SPM / O-Level or equivalent	Kota Damansara Kuala Lumpur
<b>Certificate in Information Technology</b> KD (N/0611/3/0012)(10/28)(MQA/PA16941) SJ (R2/481/3/0860)(02/26)(MQA/FA0295) KL (R3/0611/3/0008)(01/29)(A9473) PG (N/0611/3/0016)(03/29)(MQA/PA16294)		<ul style="list-style-type: none"> <li>• SPM / O-Level or equivalent with 1 credit</li> <li>• UEC with 1 credit</li> <li>• SKM Level 2</li> <li>• MQA-APEL T3</li> </ul> Additional Requirements Pass in Maths at SPM / O-Level or equivalent	Kota Damansara Kuala Lumpur Subang Jaya Penang
<b>Foundation in Science</b> KD (R2/010/3/0356)(07/25)(MQA/A4432) SJ (R3/0011/3/0083)(04/28)(A7755)	SEGi University / SEGi College	<ul style="list-style-type: none"> <li>• SPM/O-Level - min. 5 credits including Mathematics and 2 Science subjects</li> <li>• UEC – min. B in 3 subjects including Mathematics &amp; 2 Science subjects</li> </ul>	Kota Damansara Subang Jaya
<b>Foundation in Information Technology</b> KL (R3/0611/3/0219) (02/28) (A8609)		<ul style="list-style-type: none"> <li>• SPM/O-Level or equivalent – min 5 credits, including Mathematics</li> <li>• UEC – min 3 credits</li> </ul>	Kuala Lumpur
<b>Foundation in Arts</b> KD (R2/010/3/0406)(07/26)(MQA/FA0193) SJ (R2/0011/3/0082)(07/26)(MQA/FA0452)		<ul style="list-style-type: none"> <li>• SPM/O-Level or equivalent – min. 5 credits</li> <li>• UEC – min. B in 3 subjects</li> </ul>	Kota Damansara Subang Jaya

## ENGLISH REQUIREMENTS\*

Types of Exam	Diploma	Degree	Master
IELTS	Band 5.5	Band 6.0	Band 6.5
TOEFL iBT	42	46	60
Cambridge English	154	160	169
Pearson Test	47	51	59
Linguaskill Cambridge	154 - 161	169 - 175	176 - 179
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/isentry23](https://bit.ly/isentry23)

### 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.

# BACHELOR OF INFORMATION TECHNOLOGY (HONS)

KD[R2/482/6/0195](12/24)[MGA/A10376]

FULLY ACCREDITED

MICRO-CREDENTIALS

APEL A/M/C

MOBILITY

## Specialising in:

1. Business Systems Design
2. Computer Networks
3. Software Engineering

## Programme Modules

### Year 1

- Discrete Mathematics
- Internet of Things
- Network and Data Communication
- Introductory Programming
- Operating Systems
- Systems Analysis and Design
- Object-Oriented Programming
- Web and Mobile Systems
- Database Systems
- System Paradigms
- Cloud Computing

### Year 2

- Academic Research
- Ethical hacking
- Information Management
- Data Mining
- Information and Cyber Security
- Big Data Analysis
- Environmental Management and Technology
- Final Year Project 1
- Human Computer Interaction
- Computer Architecture

### Year 3

- Final Year Project 2
- IT Professional Practice
- Project Management
- Entrepreneurship
- Internship

### MPU

- Falsafah dan Isu Semasa (for local & international students)
- Penghayatan Etika & Peradaban (for local students only)
- Bahasa Melayu Komunikasi 2 (for international students only)
- Bahasa Kebangsaan A (for local students without credit for BM in SPM) or Effective Listening
- Integrity and Anti-Corruption (Local and International Students)
- Co-Curriculum: Sustainability Thinking (for local & international students)

## Specialisation

### 1. Business Systems Design

- Software Requirements and Design
- Digital Transformation Strategy
- Digital Business Consultancy
- Data Modeling
- ICT Services Management

### 2. Computer Networks

- Network Design and Architecture
- Wireless and Mobile Networks
- Enterprise Networking
- Advanced Networking
- Networks and Systems Administration

### 3. Software Engineering

- Software Requirements and Design
- Software Testing
- Software Process Life Cycle
- Data Modeling
- Artificial Intelligence



6. Clean Water And Sanitation
8. Decent Work And Economic Growth
9. Industry, Innovation And Infrastructure
11. Sustainable Cities And Communities

### 9 PILLARS OF TECHNOLOGICAL ADVANCEMENT

- A. Advanced Robotics
- D. Industrial Internet of Things
- E. Cybersecurity
- F. Cloud
- I. Big Data Analytics

## Mode of Study

- Full time
- Weekend
- Open and Distance Learning

## Career Opportunities

As graduates from the Bachelor of Information Technology (Hons) programme, you will be able to identify and take advantage of business opportunities both locally and globally, demonstrating your conduct that's consistent with business ethics and local culture.



# BACHELOR OF SCIENCE (HONS) IN COMPUTING

SJ [R2/0611/6/0049][06/28][A9203] • KL [R3/0613/6/0062][05/29][A10000] • PG [R2/0614/6/0002][07/28][MQA/A9199]

FULLY ACCREDITED

MICRO-CREDENTIALS

APEL A/M/C

MOBILITY

## Programme Modules

### Year 1

- System Development
- Computer Programming
- Communication Systems
- Logical Foundations
- Introduction to Internet Programming
- Design Thinking / Bahasa Kebangsaan A\*
- Penghayatan Etika dan Peradaban / Falsafah dan Isu Semasa (International students)
- Falsafah dan Isu Semasa (Local students)
- Bahasa Melayu Komunikasi 2 (International students)
- Penghayatan Etika dan Peradaban (Local students)
- Scholarly and Academic Practice
- Computer Programming
- Computer Systems and Internet Technologies
- Analytical Methods

### Year 2

- Professional Project Management
- Application Development
- Network and Operating System
- User Interface Design
- Malaysia Society 5.0
- Community Service
- Agile Development with Scrum
- Database Application Technologies
- Principles of Security
- Information Analysis

### Year 3

- Project (Part A)
- Requirements Management
- Research Methodology
- Human Computer Interaction and Design
- Internship
- Project (Part B)
- Enterprise Web Software Development
- Application Development for Mobile Devices
- Network Technology



### Mode of Study

- Full time
- Weekend

### Career Opportunities

Start off a career in any of the chosen field: IT support and consultancy, System analyst, Computer programmer, E-commerce application, Software developer, Web designer, Independent Consultants for public and private sector / organisation.

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

## THE MOST AGILE COMPUTING PROGRAMME IN THE MARKET

- *Strong partnerships with the industry*
- *Covers a wide range of computing subjects build for maximum agility*
- *Degree awarded by a UK University*





# BACHELOR OF COMPUTER SCIENCE (HONOURS)

KD[N/0613/6/0009][12/27][MQA/PA16019]

**MICRO-CREDENTIALS** **APEL A/M/C** **MOBILITY**

## Specialising in:

1. Artificial Intelligence
2. Cybersecurity
3. Data Analytic
4. Digital Transformation

## Programme Modules

### Year 1

- Discrete Mathematics
- Internet of Things
- Network and Data Communication
- Introductory Programming
- Operating Systems
- Systems Analysis and Design
- Object-Oriented Programming
- Mobile Application Development
- Database Systems
- Algorithm and Complexity
- Computational Intelligence
- Advanced Programming Techniques

### Year 2

- Academic Research
- Graphic and Visualization
- Information and Cyber Security
- Big Data Analysis
- Social Issues and Professional Practice
- Human Computer Interaction
- Computer Architecture & Organization
- Software Engineering
- Final Year Project 1
- Entrepreneurship

### Year 3

- Final Year Project 2
- Internship

### MPU

- Falsafah dan Isu Semasa  
(for local & international students)
- Penghayatan Etika & Peradaban  
(for local students only)
- Bahasa Melayu Komunikasi 2  
(for international students only)
- Bahasa Kebangsaan A  
(for local students without credit for BM in SPM)  
or Effective Listening
- Integrity and Anti-Corruption  
(Local and International Students)
- Co-Curriculum: Sustainability Thinking  
(for local & international students)

## Specialisation

### 1. Artificial Intelligence

- Data Analysis Programming
- Data Mining
- AI Method
- Robotic Process Automation
- AI Computing
- Natural Language Processing
- Deep Learning
- Expert System

### 2. Cybersecurity

- Network and Security
- Cloud Computing
- Computer Forensic
- Ethical Hacking
- Threat Intelligence
- Blockchain Security
- Deep Learning
- Expert Systems

### 3. Data Analytic

- Data Analysis Programming
- Data Mining
- Data Modeling
- Robotic Process Automation
- Machine Learning
- Natural Language Processing
- Deep Learning
- Expert Systems

### 4. Digital Transformation

- Digital Transformation
- Digital Technologies and Innovation
- Digital Business Consultancy
- Strategic Planning for Digital Transformation
- Data Analysis Programming
- Data Modeling
- Big Data
- Data Mining



6. Clean Water And Sanitation
8. Decent Work And Economic Growth
9. Industry, Innovation And Infrastructure

### 9 PILLARS OF TECHNOLOGICAL ADVANCEMENT

- A. Advanced Robotics
- B. Simulation & Augmented Reality
- D. Industrial Internet of Things
- E. Cybersecurity
- F. Cloud
- G. Additive Manufacturing
- H. Supply Chain
- I. Big Data Analytics

## Mode of Study

- Full time
- Weekend

## Career Opportunities

On completion of the programme, students will have the skills suitable for a wide range of careers concerned with IT and cybersecurity, in various sectors. Career opportunities includes; Network and Computer Systems Administrator, Computer System Analyst, Operations Research Analyst, Information Security Officer, Software Developer, Computer Forensic Engineer, Cryptographer, Penetration tester, Security Analyst, Security Software Developer, and Security Code Auditor.



# DIPLOMA IN COMPUTER SCIENCE

KD(N/481/4/0834)(11/28)(MQA/PA15040) • KL (R/0613/4/0042)(08/28)(PA9727)

MICRO-CREDENTIALS

APEL A/M/C

MOBILITY

## Programme Modules

### Year 1

- Calculus & Algebra
- Computer Architecture and Organization
- Database System
- Introductory Programming
- Introduction to Computer Science
- Introduction to Networks
- Data Structure & Algorithm
- Discrete Mathematics
- Introduction to Operating System
- Object Oriented Programming
- Introduction to CyberSecurity

### Year 2

- Statistics in Computer Science
- Web Project
- Systems Analysis and Design
- Introduction to Data Science
- Data Visualization & Analytics
- Integrated Systems Projects
- Introduction to Artificial Intelligence
- Mobile Application
- Data Mining
- Business Innovation 4.0
- Industrial Training

### MPU

- Industry Revolution 4.0 in Malaysia (for local & international students)
- Penghayatan Etika dan Peradaban (for local students)
- Bahasa Melayu Komunikasi 1 (for local & international students)
- Bahasa Kebangsaan A (for local students without credit for BM in SPM) or Growth Mindset
- Co-curriculum: Sustainability Thinking (for local & international students)

### Mode of Study

- Full time
- Weekend

### Career Opportunities

Your chosen career path may be Network Administrator, Software Developer, Network Maintenance Assistant, Information System Assistant, Database Administrator, Information Systems Analyst, Helpdesk Support Manager.



in collaboration with



# EMPOWERING PROGRAMMERS & COMPUTING ENGINEERS OF THE FUTURE

- Learn practical skills from the industry
- Strong emphasis on programming
- Guaranteed\* to Year 2 entry (for Degree Programmes)

\* Terms & Conditions apply

# BE AN AGILE TECHNICAL PROFESSIONAL

- Learn practical skills from the industry
- IR4.0 enhanced syllabus
- Guaranteed\* to Year 2 entry  
(for Degree Programmes)

\* Terms & Conditions apply

## DIPLOMA IN INFORMATION TECHNOLOGY

KD[R3/0611/4/0051][04/29][A10294] • SJ [R3/0611/4/0088][04/27][A7756] • KL [R3/0611/4/0224][09/28][A9341] • PG [R3/481/4/0264][10/28][A9340] • SWK [R3/483/4/0408][01/29][A9765]

FULLY ACCREDITED


MICRO-CREDENTIALS

APEL A/M/C

MOBILITY

### Programme Modules

#### Year 1

- Discrete Mathematics
- Introduction to Operating Systems
- Information Technology
- Programming Methodology
- Database Management Systems
- Computer Organisation
- Systems Analysis and Design
- Object Oriented Development
- Web Designing 
- Applied Digital Skills
- Academic English

#### MPU

- Industry Revolution 4.0 in Malaysia  
(for local & international students)
- Penghayatan Etika dan Peradaban  
(for local students)
- Bahasa Melayu Komunikasi 1  
(for local & international students)
- Bahasa Kebangsaan A  
(for local students without credit for BM in  
SPM) or Growth Mindset
- Co-curriculum: Sustainability Thinking  
(for local & international students)

#### Year 2

- Windows Programming
- Introduction to Internet Programming
- Multimedia Studies
- Introduction to Mobile Applications
- Data Communication and Networking
- Software Engineering
- Integrated Systems Project
- Project Management
- Google Cloud Computing 
- User Experience (UX) Design 
- General Language Training
- Industrial Attachment

#### Concentration (choose 2 only)

- Big Data Technology
- Introduction to Artificial Intelligence
- Cybersecurity
- Introduction to Python Programming
- Introduction to Machine Learning
- Ethical Hacking



**SEGi**  
COLLEGE

### Mode of Study

- Full time
- Weekend

### Career Opportunities

Your chosen career path may be Network Administrator, Software Developer, Network Maintenance Assistant, Information System Assistant, Database Administrator, Information Systems Analyst, Helpdesk Support Manager.

# CERTIFICATE IN INFORMATION TECHNOLOGY

KD [N/0611/3/0012][10/28][MQA/PA16941] • SJ [R2/481/3/0860][02/26][MQA/FA0295] • KL [R3/0611/3/0008][01/29][A9473] • PG [N/0611/3/0016][03/29][MQA/PA16294]

FULLY ACCREDITED

MICRO-CREDENTIALS

APEL A/M/C

MOBILITY

## Programme Modules

### Year 1

- Introduction to Information Technology
- General Language Training
- Basic Computing for Mathematics
- Introduction to Programming
- Applied Digital Skills
- Academic English
- Fundamentals of Operating Systems
- Web Designing
- Basic Networking and Concepts
- Introduction to Database
- Fundamentals of Computer Architecture

### Year 2

- Introduction to Java
- Fundamentals of Graphics Design
- Electronic Publishing
- PC Maintenance
- System Development
- Introduction to Animation and Multimedia

### MPU

- Falsafah dan Isu Semasa or Penghayatan Etika dan Peradaban (Local students) / Malaysian Studies 1
- Bahasa Melayu Komunikasi 1 (International students)
- Public Speaking Skill / Bahasa Kebangsaan A\*
- Family Issues

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



### Mode of Study

- Full time
- Weekend

### Career Opportunities

Upon completion of the Certificate in Information Technology, you may further your studies in Diploma or Degree or gain experience through careers such as customer support representative, client support officer, technician and many more.

# BUILDING A STRONG FOUNDATION FOR INFORMATION TECHNOLOGY

- Pathway to an IT-related Diploma
- Flexible payment scheme for Cert-Diploma Pathway



# FOUNDATION IN INFORMATION TECHNOLOGY

KL (R3/0611/3/0219) (02/28) (A8609)

## Programme Modules

### Year 1

- Basic Mathematics
- Information Technology
- Computer Application
- Personal and Professional Development
- Programming Methodology
- Statistics
- Introduction to Programming Languages
- Introduction to Animation and Multimedia
- Web Designing
- General English Training
- Principles of Management
- Academic English
- Database Management System
- Introduction to Object-Oriented Development



### Why study this programme?

This qualification is specially designed for students with SPM, O-Level or equivalent qualifications and who have decided to pursue a career in computing or information technology. Upon successful completion of the SEGi Foundation in Information Technology, students can venture into a range of computing and information technology degree programmes.

# FASTEST PATHWAY TO AN IT RELATED DEGREE

- *Fastest pathway into a wide variety of Degree Programmes*
- *Build a strong foundation in Information Technology*





# DISCOVER YOUR PASSION IN INFORMATION TECHNOLOGY

WHILE KEEPING YOUR OPTIONS OPEN

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

## FOUNDATION IN SCIENCE

KD [R2/010/3/0356][07/25][MQA/A4432]; MQA/PA14176 N-DL/010/3/0024

### 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\*

### Elective (by Specialisation)\*

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

### 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 [R2/010/3/0406][07/26][MQA/FA0193]; MQA/PA4175 N-DL/010/3/0025

## 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

## 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

# FOUNDATION IN ARTS

SJ [R2/0011/3/0082][07/26][MQA/FA0452]

## Programme Modules

### Year 1

- Thinking Skills
- English I
- Mathematics
- Basic Information and Communication Technologies (ICT)
- Introduction to Psychology
- Essentials of Economics
- English II
- Introduction to Law
- Introduction to Sociology
- Co-curriculum
- Introduction to Management
- Writing and Research Skills
- Electives (Choose any two):
  - Introduction to Finance
  - Introduction to Visual Arts
  - Introduction to Mass Media and Communication
  - Introduction to Legal Skills

### 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**
- **4 electives to choose from**



# ELECTIVE COURSES

## DIPLOMA LEVEL

No	Scholarship Name	School	Credit Value	No	Scholarship Name	School	Credit Value
1	Business and Company Law	Business and Accounting	3	28	CyberPsychology	Psychology	3
2	Business Communication		3	29	Positive Psychology		3
3	Business Management		3	30	Social Psychology		3
4	Cost Accounting		3	31	Understanding the Child's Growth and Development	Early Childhood Education	3
5	Data Analysis		3	32	Play & Learning for Young Children		3
6	Financial Accounting 1		3	33	Physical Education & Health Care for Young Children		3
7	Introduction to Business		3	34	Safety & Well-being of Young Children		3
8	Introduction to Finance		3	35	Global Citizenship for Young Children		3
9	Introduction to Management Accounting		3	36	An Introduction to Montessori Pedagogy	3	
10	Introduction to Marketing		3	37	Music for Children	Music	3
11	Principles of Management		3	38	Music Appreciation 1: Aesthetic & Style		3
12	Social Media Marketing		3	39	Music Appreciation 5: World Music		3
13	Technopreneurship		3	40	Music Fundamentals 1: Fundamental Theory	3	
14	Consumer Behaviour		4	41	Print Production	Hospitality & Tourism / Creative Arts & Design	3
15	Corporate Audit		4	42	Advertising Creativity		3
16	Digital and Service Marketing		4	43	Wedding Planning and Management	Hospitality & Tourism	3
17	Digital Marketing		4	44	Wine Management		3
18	Finance		4	45	Introductory to French		3
19	Human Resource Management		4	46	Food & Its Culture	3	
20	Integrated Marketing Communication		4	47	Principles of Electronics & Electrical Engineering	Engineering	3
21	International Business		4	48	Engineering Drawing		3
22	Marketing Management		4	49	Fundamental of Photography	Creative Arts & Design	3
23	Operations Management		4	50	Digital Graphics		3
24	Organisational Behaviour		4	51	Introduction to Multimedia & Animation		4
25	Personal Selling		4	52	Interactive Web Design		4
26	Industrial and Organisational Psychology	3	53	Videography	4		
27	General Psychology	Psychology	3	54	Presentation Skills	3	

## CERTIFICATE LEVEL

No	Scholarship Name	School	Credit Value	No	Scholarship Name	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



# SEGi UNIVERSITY & COLLEGES'

## IT & ENGINEERING PROGRAMMES ARE ALIGNED WITH THE 9 PILLARS OF INDUSTRIAL REVOLUTION 4.0



### 9 PILLARS OF TECHNOLOGICAL ADVANCEMENT



**Cybersecurity**

Operation in networks and open systems  
High level of networking between intelligent machines, products and systems



**Autonomous Robot**

Autonomous, cooperating industrial robots  
Numerous integrated sensors and standardised interfaces



**Additive Manufacturing**

3D printing, particularly for spare parts and prototypes  
Decentralised 3D facilities to reduce transport distances and inventory



**Industrial Internet of Things**

Network of machines and products  
Multidirectional communication between networked objects



**Cloud**

Management of huge data volumes in open systems  
Real-time communication for production systems



**Horizontal Vertical Integration**

Cross-company data integration based on data transfer standards  
Precondition for a fully automated value chain (from supplier to customer, from management to shop floor)



**Simulation & Augmented Reality**

Augmented reality for maintenance, logistics and all kinds of SOP Simulation of value networks and Optimisation based on real-time data from intelligent systems



**Big Data Analytics**

Full evaluation of available data (e.g. from ERP, SCM, MES, CRM, and machine data)  
Real-time decision-making systems



**Supply Chain**

The use of advanced robotics, and the application of advanced analytics of big data in supply chain management  
Place sensors in everything, create networks everywhere, analyse everything to significantly improve performance and customer satisfaction



**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 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 ☎ 010 313 0303

**SEGi Admissions and Support Centre, Ipoh**

☎ 016 212 9736

The best in you, made

**POSSIBLE**

The information in this brochure is correct at the time of printing (Mar 2025).  
Changes may be made without prior notice. Copyright 2025. All rights reserved.

[segi.edu.my](http://segi.edu.my)

Chat with us today!  
**SCAN HERE**

