INFORMATION TECHNOLOGY

VR

SEGIRO

SEGi University | Towards iR4.0

INTRODUCTION TO
SEGi UNIVERSITY

SEGi was established in 1977 as Systematic College in the heart of Kuala Lumpur offering professional qualifications. Since its founding over four decades ago, SEGi has undergone significant growth, strengthening the quality of its wide range of programmes from foundation to doctorate level.

It is one of the most established private higher education institutions in Malaysia with its flagship campus located in Kota Damansara and four other campuses in Subang Jaya, Kuala Lumpur, Penang, and Kuching. Currently, SEGi has a population of 20,000 local and international students across its campuses.

SEGi is recognised as "The first Malaysian University that earned 5 Stars for Prioritising Society's Needs in Malaysia" by QS Stars, an international evaluation system for universities based on auditing.

COLLABORATE WITH WORLD CLASS ICT COMPANIES

From desktops to laptops to PDAs, and mobile phones to satellite TVs and iPads, computing is everywhere, all around us, and in every part of our work and play.

Technology and its uses are limited only by the extent of our imagination. The continuing growth of the industry is becoming more and more prominent; hence, the demand for industry players are ever growing. Facebook, Twitter, Instagram, and Youtube have become common terms due to the result of rapid technology growth.

The systems, software and hardware all have to be created by experts with in-depth knowledge and skills to design, develop, and deliver technology that can be used to improve our lives.

The Information Technology industry is reshaping many aspects of the world's economies and structures of governments and societies. In developing countries, governments, businesses and the public are harnessing the transformative power of technology to make public services more efficient, grow businesses, and strengthen and expand social networks.

Technology has made an influential impact on the society today and is well paving the way for what is possible in the future.

CONTENTS

AT A GLANCE

GLOBAL RECOGNITION

- Emerged in the top 45% of the 2021 QS World University Rankings: Asia
- Double Awards from Top 3.3% of Universities Worldwide (The Centre for World University Rankings 2017 (CWUR) University of Central Lancashire (UCLAN)
- MQA Fully-Accredited Programmes
- 2017 QS Overall 3-star rating with 5-star rating in teaching, facilities, social responsibility, and inclusiveness

SKILLS ENRICHMENT & SUPPORT

- More than 100 SEGi Enrichment Programmes in the areas of leadership, communication, and grooming skills (among others) to enhance students' learning experience
- Academic Skills Unit to assist students in academic writing and effective study, research techniques, time management, academic integrity, and exam preparation
- Mentor-Mentee system to provide guidance to students on academic matters and to foster a close and constructive professional relationship between students and lecturers

EXCELLENT TEACHING, LEARNING & RESEARCH

- SETARA 2018/2019 5-star rating for SEGi University in the Emerging Universities (Universities which have been established within the last 15 years) category
- QS 5 Stars Rated for Excellence in Teaching
- QS 5 Stars Rated for Facilities
- SETARA, 2017 scored above medium of 83 in the category of Teaching and Learning
- Independent students' 2017 evaluation rating: more than 95% of students rated our lecturers for excellence in teaching
- Student to academic staff ratio 21:1, based on SETARA (2017)
- Research-led environment

GLOBALLY RECOGNISED, DISTINCTIVELY SEGi.
OUR 6 COMPETITIVE ADVANTAGES

SCHOLARSHIPS

- 1st Malaysian University that earned 5 Stars for Prioritising Society's Needs in Malaysia (by QS Stars)
- Over RM100 million worth of Group scholarships awarded in the past 40 over years
- QS 5 Stars rated for inclusiveness and social responsibility

STUDENT SATISFACTION

- 80% of students are willing to recommend their friends and family to study with us

INDUSTRY DRIVEN GRADUATES

- 2017 SETARA Graduate Employability 85%

Towards
iR4.0

IR4.0 IN A NUTSHELL

The IR4.0 has a big impact on the local economy and community as it changes the job market, which in turn, changes the human capital's qualification requirements. The new-age industries require human capital with relevant and adequate digital and data literacy.

Global data point towards major shifts in perceptions and hiring trends. A study by McKinsey Global Institute shows that one-fifth of the global workforce will be impacted by the adoption of AI and automation. Similarly, another study by Cisco and Oxford Economics found that emerging technologies have the capacity to change 28 million jobs in ASEAN alone.

SEGi's 4R APPROACH

SEGi has taken a calculated view of the new market and has set a strategic direction to achieve its goal of becoming a leading IR4.0 institution. Guided by the drive "Towards IR4.0", we have recognised four thrusts to drive the institution forward.

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 impact on the community

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

WORLD RENOWNED
UNIVERSITY PARTNER

University of Central Lancashire
UCLan

SEGi partners with international universities of great repute to offer a globalised learning experience for our students. Programmes offered by our university partners are regulated by them on a regular basis, thus ensuring the exact same quality of education that students will obtain at their home base.

UNITED KINGDOM

University of Central Lancashire

The University of Central Lancashire is one of the largest universities in the UK which hosts about 25,000 students. This public university, located in Preston, Lancashire, England was founded as the Institution for the Diffusion of Knowledge in 1828 and became a university in 1992. Imbued with a celestial-sounding motto, 'Ex solo ad solem', which translates 'From the Earth to the Sun', the vastness of the university's portfolio includes over 400 undergraduate programmes and 200 postgraduate courses. Hailed for its high student satisfaction in the recent international Student Barometer survey, its impressive reputation as a regional economy powerhouse testifies to over 1,000 students and graduates who have started a business or embarked on self-employment.

TOP-NOTCH RESOURCES
FOR A QUALITY LEARNING EXPERIENCE

INTERNATIONAL COLLABORATIONS

We work with some of the world's most prestigious universities from the United Kingdom and Australia to develop a knowledge-rich and industry-relevant curriculum.

DOUBLE DEGREE PROGRAMMES

SEGi University's Information Technology programmes reflect international recognition. Students enrolled in the Double Degree award programme will graduate with 2 parchments – one from SEGi University and another from University of Central Lancashire, UK.
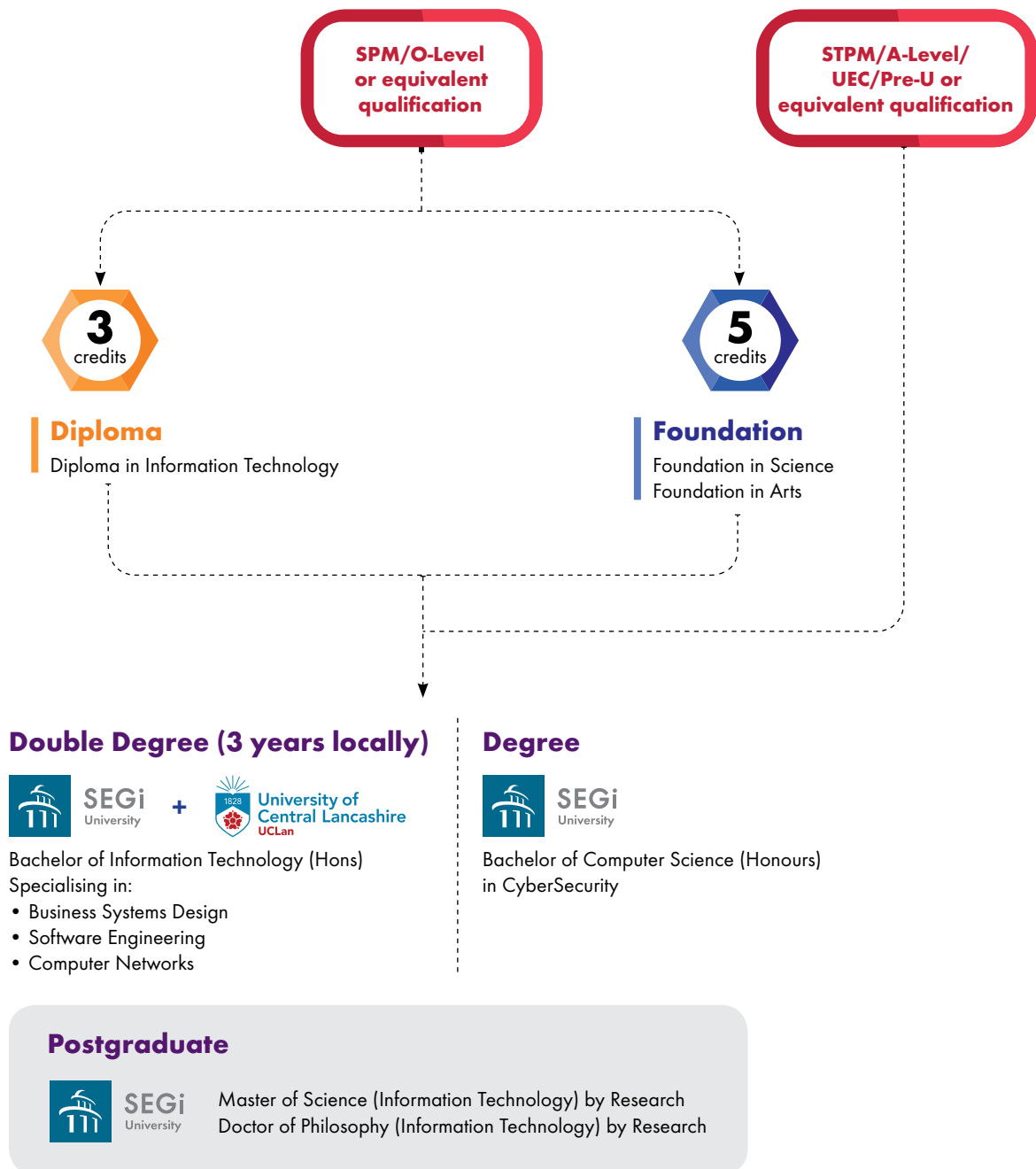
NURTURING INDUSTRY-READY GRADUATES

In the past 40 years, SEGi University has produced capable graduates who are highly sought-after by employers for their key management skills.

PARTNERSHIPS WITH INDUSTRY

SEGi University establishes strong links with key industry players from a wide range of fields to provide access to internships and job opportunities for our students.

MORE THAN 95% EMPLOYABILITY

More than 95% of our Information Technology Graduates are employed within 3 months upon graduation.

ESTEEMED INDUSTRY ADVISORS

In line with our brand promise to provide a complete learning experience, we work closely with reputable industry advisors to facilitate the transfer of knowledge and experience.

SPM/O-Level or equivalent qualification

STPM/A-Level/ UEC/Pre-U or equivalent qualification

3 credits

5 credits

Diploma
Diploma in Information Technology

Foundation
Foundation in Science
Foundation in Arts

Double Degree (3 years locally)

SEGi University **+** University of Central Lancashire UCLan

Bachelor of Information Technology (Hons)
Specialising in:
- Business Systems Design
- Software Engineering
- Computer Networks

Degree

SEGi University

Bachelor of Computer Science (Honours)
in CyberSecurity

Postgraduate

SEGi University

Master of Science (Information Technology) by Research
Doctor of Philosophy (Information Technology) by Research

All diploma and degree programmes require students to take 4 compulsory general subjects, as required by the Ministry of Education Malaysia.

The above is an indication of current programme content. However, the rapidly changing nature of the subject area means that the courses offered and individual course content are continuously updated to meet industry needs. Also, please note that certain combinations of options may not be available.

PROGRAMME MATRIX

Programme	Awarding Institution	Entry Requirements
Bachelor of Computer Science (Honours) in CyberSecurity	SEGi University	• Matriculation/Foundation - with min. CGPA of 2.0 and credit in Add Maths for SPM • STPM - pass with 2 principals and credit in Add Maths for SPM • IT Diploma programmes - Computer Science, Information System, Information Technology, and Software Engineering with min. CGPA of 2.5 or equivalent qualification and a credit in Add Maths for SPM • Diploma - pass with min. CGPA of 2.5 and credit in Add Maths for SPM • A-Level – pass with 2 principals and credit in Add Maths for O-Level • UEC - pass with Grade B in 5 subjects (including Add Maths) • IELTS (5.0) OR its equivalent (International Students)
Bachelor of Information Technology (Hons)	SEGi University and University of Central Lancashire, UK ***Double Degree*** SEGi University University of Central Lancashire UCLan • Business Systems Design • Software Engineering • Computer Networks	• Matriculation or Foundation - with min. CGPA of 2.0 and credit in Mathematics for SPM • STPM - pass with 2 principals and credit in Mathematics for SPM • IT Diploma programmes - Computer Science, Information System, Information Technology, and Software Engineering with min. CGPA of 2.5 or equivalent qualification and a credit in Mathematics for SPM • Other relevant Diploma - with min. CGPA of 2.5 and a credit in Mathematics for SPM • A-Level – pass with 2 principals and credit in Mathematics for O-Level • UEC – pass with Grade B in 5 subjects (including Mathematics) • IELTS (5.0) OR its equivalent (International Students)
Diploma in Information Technology	SEGi College	For international student: IELTS with minimum of score 4.0 or equivalent. • A pass in SPM with at least credit in any 3 subjects inclusive of Mathematics or any equivalent qualification; OR • A pass in Sijil Tinggi Persekolahan Malaysia (STPM), with a minimum of Grade C (GP 2.0) in any subject or any equivalent qualification and a credit in Mathematics at SPM level or its equivalent; OR • A pass in Sijil Tinggi Agama Malaysia (STAM) with a minimum grade of Maqbul (pass) and a credit in Mathematics at SPM level or its equivalent; OR • A pass in SKM Level 3, and a credit in Mathematics at SPM level or its equivalent; OR • A pass in any qualifications equivalent to Certificate (Level 3, MQF) and a credit in Mathematics at SPM level or its equivalent. * Candidates without a credit in mathematics at SPM level or its equivalent may be admitted if the Certificate programme contains subjects in mathematics that are equivalent to mathematics at SPM level.
Foundation in Science	SEGi University & SEGi College	• SPM/O-Level or equivalent - min. 5 credits including Mathematics & Science.
Foundation in Arts		• SPM/O' Level or equivalent - min. 5 credits including Mathematics.

BACHELOR OF
INFORMATION TECHNOLOGY (HONS)

SEGi UNIVERSITY & UNIVERSITY OF CENTRAL LANCASHIRE, UK

Double Degree

SEGi University

University of Central Lancashire UCLan
1828

Specialising in:

- **Business Systems Design**
  Double Degree Award in collaboration with University of Central Lancashire, UK.

- **Software Engineering**
  Double Degree Award in collaboration with University of Central Lancashire, UK.

- **Computer Networks**
  Double Degree Award in collaboration with University of Central Lancashire, UK.

Information Technology is the study or use of systems (especially computers and telecommunications) for storing, retrieving, and sending information. The degree enables students to develop higher level of entrepreneurial and cognitive skills beyond knowledge and understanding, where focus is given to the competency of analysis, synthesis, creativity, and evaluation whilst developing other transferable skills such as problem solving, communication, and interaction.

Students will be well prepared with a range of practical, business, and personal skills for many specialist roles within the ICT and business sectors. Students will also have the opportunity to gain professional certifications, including Java, Oracle, and EC council.

ORACLE   Java   C|EH Certified Ethical Hacker™

Programme Modules

Year 1	Year 2	Year 3
■ Discrete Mathematics	■ Academic Research	■ Final Year Project 1
■ Introductory Programming	■ Digital Business Consultancy ●	■ Final Year Project 2
■ Systems Analysis and Design	■ Management Information Systems ●	■ Project Management
■ Database Systems	■ Programming for Mobile Devices ●	■ Human Computer Interaction
■ Introduction to Networks	■ Networks and Communications ●	■ Industrial Attachment
■ Object-Oriented Programming	■ Wireless Technology ●	■ Networks and Systems Administration ●
■ Introduction to Operating Systems	■ Digital Transformation Strategy ●	■ Artificial Intelligence ●
■ Introduction to IoT	■ Information and Cyber Security ●●	■ ICT Service Management ●
■ Web Project	■ Web Authoring ●●	■ Advanced Networks ●
■ Cyber Marketing	■ Object Oriented Analysis and Design ●●	■ System Development Methods ●●
■ Environmental Management and Technology	■ Advanced Programming ●●	■ Advanced Database Systems
	■ Windows Programming	■ Computer Architecture
	■ Personal Health Management	■ Advanced Database Systems
	■ Wireless Technology	■ Big Data Analysis
	■ Object Oriented Analysis and Design	■ Entrepreneurship
	■ Mobile Application Development	
	■ Data Science	
	■ Effective Listening	
	■ Data Mining	
	■ TCP/IP Networks Programming ●●	
	■ Introduction to Cloud Computing ●●	

MPU

- ■ TITAS (Local Student)
- ■ Hubungan Etnik (Local Student)
- ■ Malaysian Studies 3 (International Student)
- ■ Bahasa Melayu Komunikasi 2 (International Student)
- ■ Pengurusan Ko-kurikulum

Note: Compulsory for specialisation
● denotes Business Systems Design
● denotes Computer Networks
● denotes Software Engineering

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 COMPUTER SCIENCE (HONOURS) IN CYBERSECURITY

SEGi UNIVERSITY

The Bachelor of Computer Science (Hons) in Cybersecurity incorporates elements that enables students to develop skills and knowledge in Cybersecurity. Cybersecurity is the practice of protecting systems, networks, and programs from digital attacks or Cyberattacks.

The degree is designed to assist students to develop strong technical, critical thinking, and problem-solving skills. Students will learn to prevent data breaches, address vulnerabilities, and improve security for networks and systems. The degree also provides students with the opportunity to gain professional certifications, including EC Council and Huawei.

Programme Modules

Year 1	Year 2	Year 3
■ Discrete mathematics	■ Data Structures and Algorithms	■ Information Systems Security
■ Database Systems	■ Introduction to Operating Systems	■ Networks and Systems Administration
■ Introductory Programming	■ Web Project	■ Advanced Database Systems
■ Computer Architecture	■ Introductory Software Engineering	■ Internet of Things
■ Introduction to Networks	■ Artificial Intelligence	■ Business Ethics
■ Systems Analysis and Design	■ Networks and Communications	■ Ethical Hacking and Systems Defence
■ Object-Oriented Programming	■ Software Security	■ Computer Forensic
■ Human-Computer Interaction	■ Wireless Communication	■ Final Year Project 1
■ Computing Mathematics	■ Languages & Compilers	■ Final Year Project 2
■ Academic English	■ Entrepreneurship	■ Industrial Attachment
■ Elective Module 1	■ Environmental Management and Technology	■ Elective Module 3
	■ Academic Research	
	■ Elective Module 2	

Elective Modules	MPU
■ Web Authoring	■ Effective Listening
■ Biometric Technology	■ Personal Health Management
■ Cyber Warfare	■ Malaysian Studies (International)
■ Security Strategies	■ Bahasa Melayu Komunikasi 3 (International)
■ Programming for Mobile Devices	■ Tamadun Islam & Tamadun Asia Tenggara (Local)
■ Client-Focused Business Solution	■ Hubungan Etnik (Local)
	■ Pengurusan Ko-Kurikulum"

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 opportunity includes; Network and Computer Systems Administrators, Computer Systems Analysts, Operations Research Analysts, Information Security Officer, Software Developers, Computer Forensic Engineer, Cryptographer, Penetration tester, Security Analyst, Security Software Developer, and Security Code Auditor.

DIPLOMA IN INFORMATION TECHNOLOGY

SEGi COLLEGE

Diploma in Information Technology equips students with the fundamentals of Information technology and technical skills required. The programme is designed to produce graduates who can perform different duties range from Information management, computer networking, database management, software development and the management of the entire computer system.

The programme designed to prepare students who wish to pursue information communication technology with the essential knowledge, skills and attitude to explore technology-based ventures. Students who completed the Diploma Programme are eligible to obtain maximum 50% of vertical credit transfer to Bachelor's Degree Programme.
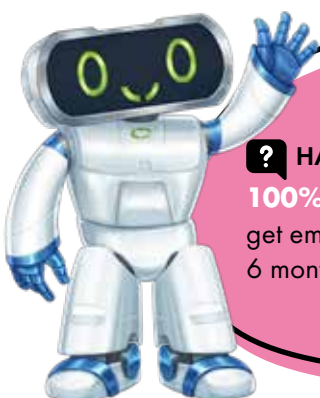
Programme Modules

Year 1	Year 2
■ Basic Mathematics for Computing	■ Introduction to Software Engineering
■ Commercial Application and IT	■ Data Communications and Networking
■ Database Management Systems	■ Data Structures and Algorithms
■ Programming Methodology	■ Principles of E-Commerce
■ Digital Content Development	■ Windows Programming
■ Introduction to Operating System	■ Object Oriented Development
■ Introduction to Programming Languages	■ Systems Development
■ Computer Organisation	■ Web Designing
■ Management Information System	■ Project Management
■ System Analysis and Design	■ Conceptual Design & Creativity
■ General Language Training	■ Academic English
■ Integrated Systems Project	
■ Industrial Attachment	

MPU

- Malaysian Studies (Local Students)/ Bahasa Melayu Komunikasi 2 (International Students)
- Pengurusan Ko-Kurikulum
- Moral Studies (Non-Muslim)/ Islamic Studies (Muslim)
- Presentation Skills

? HAVE YOU HEARD?
100% OF OUR GRADUATES get employed within a span of 6 months upon graduation.

Career Opportunities

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

R3/481/4/0372(4/24) **KD CAMPUS**

FOUNDATION IN SCIENCE

SEGi UNIVERSITY

The foundation programme is designed 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 respective degree programmes.

Programme Modules

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

Elective (by Specialisation)*

General	Health Sciences
■ Biology 1	■ Biology 1
■ Physics 1	■ Public Speaking
■ Biology 2	■ Biology 2
■ Physics 2	■ Information Technology
■ Physics 3	■ Introduction to Patient Care

Engineering
■ Physics 1
■ Public Speaking
■ Physics 2
■ Information Technology
■ Physics 3

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 science or engineering programmes.

R2/010/3/0356(7/25) **KD CAMPUS**

FOUNDATION IN ARTS

SEGi UNIVERSITY

The foundation year is an introductory programme that will equip students with the skills and knowledge to further their studies locally or internationally. Students are exposed to modules which will allow them to become creative thinkers and problem solvers and produce practical ideas. This programme also enables students to develop a range of practical skills and solid knowledge, preparing them for a smooth progress into a degree of their choice.

Programme Modules

Semester 1	Semester 3
■ General Language Training	■ Public Speaking
■ Computer Application	■ Critical Thinking Skills
■ Introduction to Business	■ Principles of Economics
■ Statistics	■ Elective 5*

Semester 2	Electives (Information Technology)
■ Academic English	■ Programming Methodology
■ Elective 1*	■ Interpersonal Communication
■ Elective 2*	■ Fundamental of Management
■ Elective 3*	■ Intercultural Communication
■ Elective 4*	■ Information Technology

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 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 will have to choose the electives according to the discipline of undergraduate studies they intend to pursue.

R2/010/3/0406(7/26) **KD CAMPUS**

STUDENT TESTIMONIALS

"As a recent graduate of SEGi University's Bachelor of Information Technology (Hons) programme, I feel that I have attained a strong foundation in Computer Science which has equipped me with the skills to learn any emerging technology. The Head of School (HoS), lecturers and the faculty staff are very caring and interested in students' well-being. They make sure that every class is fun, educational and interactive, while encouraging students to perform their best. With proper guidance from them as well as the support of my family, I was able to score a 4.0 CGPA and become the highest achiever for the 2015-2018 batch. I wouldn't have been able to achieve this success without that caring environment. As each day passes, I feel that I am one step closer to becoming a successful software engineer that SEGi has equipped me to be."

Unagollage Binod Charukshi Wijesinghe
Bachelor of Information Technology (Hons) - Software Engineering

"There were a lot of strategies and tips that I've learnt while doing this programme. No doubt BIT can be challenging, as it is very technical to an extent. However, I'm glad that I've chosen SEGi as my starting point. My lecturers are great and the tutorials provided in SEGi has guided me a lot during my learning process here. It is important to maintain a positive mental attitude and believe in your capacity to succeed!"

Cheong Chee Yen
1st Class Honours

"My campus life at SEGi has been wonderful, and with such helpful lecturers, I'm looking forward to finishing my programme and experiencing a wholesome environment."

Adam Mohammad Low Bin Johan Thomas Low

"The lecturers at SEGi are relentless at guiding students to achieve excellence throughout the programme. The knowledge and skills taught has helped me obtain the right opportunities to embark on my career journey."

Mohd Syazwan Bin Mohd Hanafie

INDUSTRY PARTNERS

These are the active industry partners who have been working with us.
We want to thank all these industry partners for their generous partnership with SEGi.

1	99 Speed Mart Sdn Bhd	13	Global Business Center Sdn Bhd (DELL)
2	AEGIS BPO Malaysia Sdn Bhd	14	Golden Hope Plantation Berhad
3	Ageless Brands Sdn Bhd	15	Hartamas Real Estate (Malaysia) Sdn Bhd
4	Avon Cosmetic (M) Sdn Bhd	16	Island & Peninsular Bhd
5	Bandar Utama City Centre Sdn Bhd	17	Lumen Properties Sdn Bhd
6	Brandt International Sdn Bhd	18	Malaysia Airlines
7	Catch That Bus Sdn Bhd	19	Nikon (Malaysia) Sdn Bhd
8	Convergys Malaysia Sdn Bhd	20	OSK Holdings Berhad
9	CTOS DATA SYSTEMS SDN BHD	21	OXIM Sdn Bhd (OXCEL Sdn Bhd)
10	Flexiroam Sdn Bhd	22	Pembinaan Mitrajaya Sdn Bhd
11	Flykidz Gymnastics Sdn Bhd	23	Planetpop Marketing Sdn Bhd
12	Fuji Xerox Printers Distributor		

segiuniversity.edu.my

RANKED ASIA
QS WORLD UNIVERSITY RANKINGS
2021

SETARA 2019
VERY COMPETITIVE
EMERGING UNIVERSITY

SEGi University Kota Damansara (100589-U)
No. 9, Jalan Teknologi, Taman Sains Selangor, Kota Damansara,
PJU 5, 47810 Petaling Jaya, Selangor Darul Ehsan.
📞 603 6145 1777
💬 011 1210 6389

The best in you, made

POSSIBLE

Chat with us today!
SCAN HERE