

Technology and Innovation at SEGi

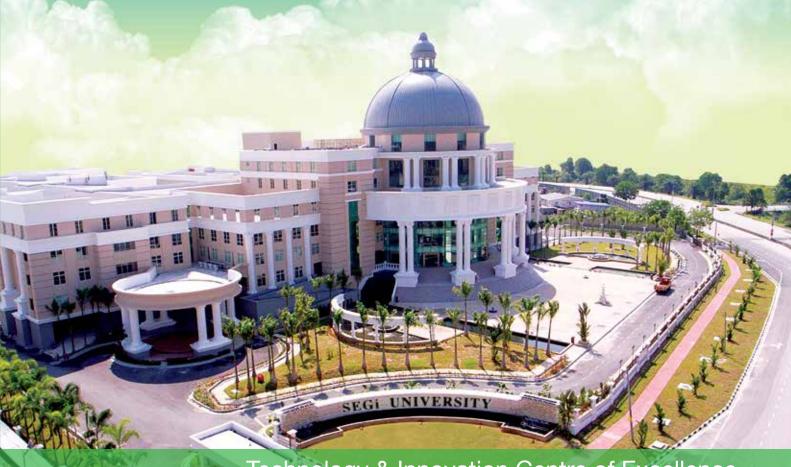
At SEGi, our Information and Communications Technology (ICT) programmes are conducted under the School of Technology and Innovation.

Now that we live in the age of Information Technology, our lives are very much dependent on communication devices and applications such as the smart phone and computer. Those, in turn, depend on network hardware and software, operating systems and so on. Even businesses have invested heavily on the various services and applications associated with ICT, such as videoconferencing and servers to store crucial business data.

From the computer animation in movies to advances in medical treatment and research, our dependence on ICT matches its growth, as technology steadily changes our way of life. ICT and its uses are limited only by the extent of our imagination.

To ensure that our ICT programmes have the most competitive edge in line with market demands, we have engaged industry experts and partners who are renowned in their respective fields to be industry advisors and ambassadors for SEGi. The role of these advisors is to contribute towards the development and improvement of the syllabi to ensure that the programmes meet industry needs.

Join the ranks of successful people just like Steve Jobs, Bill Gates and Mark Zuckerberg by learning from the best at SEGi.







EGi University Group (SEGi) has set forth a vision to propel SEGi to the next level by developing upon Centres of Excellence (CoE) within the Group. As such, SEGi aims to build upon strong foundations and transform from a generalist institution into 8 specialist CoEs. By focusing on areas of strength, the Centres of Excellence are able to deliver a superior education experience.

SEGi University has been producing thousands of quality graduates in the ICT field and has gained reputation as an established and trusted provider of ICT training.

Today, SEGi University has numerous industry advisors and partners and collaborates with them to ensure graduates are knowledgeable and highly employable upon graduation.

Why ICT at SEGi University

Renown industry advisors

The University engages some of the best in the field as industry advisors for ICT programmes to ensure the programmes are truly in line with industry needs. Members on the panel of industry advisors include global ICT leaders, Huawei and Oracle.

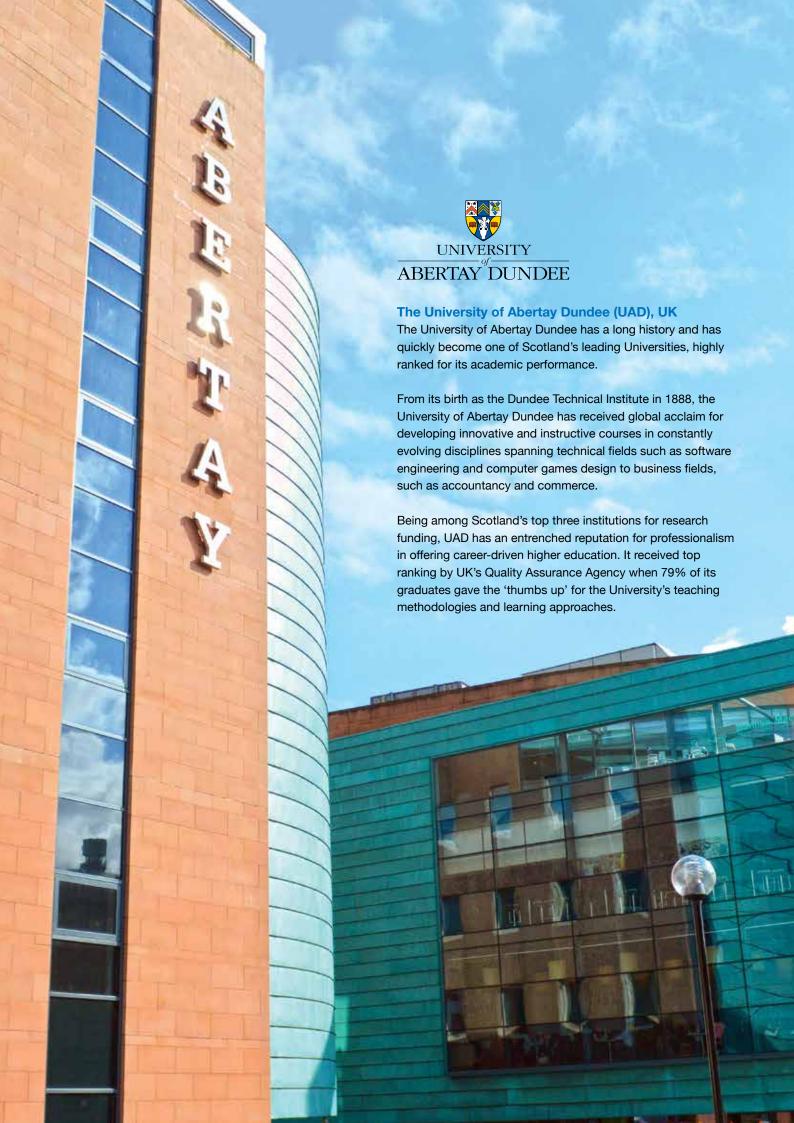
Best industry partners

Students have been given internships and employment opportunities with SEGi's corporate partners that are leaders in ICT. These partnerships are aimed at developing the best ICT leaders for tomorrow.

Top-notch University partners

SEGi ties up with international university partners, which are experts of ICT programmes.





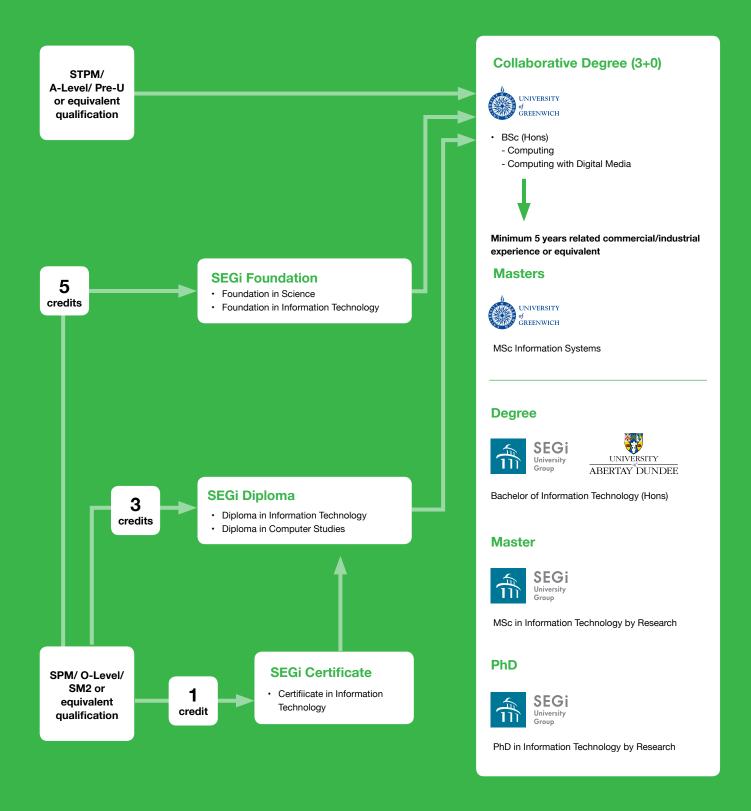
Course Matrix

| Programme | Туре | Entry Requirements | Duration | Campus |
|--|--|---|----------|---------------------------------------|
| PhD in Information Technology by Research | Doctor of Philosophy Programme with SEGi University | A Master's Degree or equivalent and candidates must have completed at least one(1) of their earlier Degrees (Master's or Bachelor's) in Computing or IT. | 3 years | Kota Damansara |
| MSc in Information Technology by Research | Master Programme with SEGi University | IT-related Bachelor Degree -CGPA of 2.5; OR non-IT Bachelor's Degree - CGPA of 2.5 Other qualifications deemed equivalent to a Bachelor's Degree by the Senate of SEGi University subject to the conditions in Clause 1 & 2 above. | 2 years | Kota Damansara |
| MSc Information Systems Management | Masters Programme with the University of Greenwich , UK | Bachelor Degree in (Information Systems or Computer related degree), 5 or more years related commercial/industrial experience or equivalent (subject to University of Greenwich approval) | 3 years | Kota Damansara |
| Bachelor of Information Technology (Hons)* | Degree Programme with SEGi University and the University of Abertay Dundee, UK | STPM with 2 full Passes and a credit in SPM/ O-Level Mathematics, UEC with Grade B in 5 subjects, pass in a relevant Foundation programme (with a credit in SPM Math), pass in relevant Diploma programme (with a CGPA of 2.5), or other equivalent qualifications. | 3 years | Kota Damansara |
| BSc (Hons) Computing | 3+0 Degree Programme with the University of Greenwich , UK | Foundation in IT, STPM (2 principal passes), Pre-U, A-Level (2 passes), UEC (5B's inclusive of English and Mathematics) or equivalent | 3 years | Kuala Lumpur Subang Jaya Penang |
| BSc (Hons) Computing with Digital Media | 3+0 Degree Programme with the University of Greenwich , UK | Foundation in IT, STPM (2 principal passes), Pre-U, A-Level (2 passes), UEC (5B's inclusive of English and Mathematics) or equivalent | 3 years | Kuala Lumpur |

| Programme | Туре | Entry Requirements | Duration | Campus |
|---|-------------|--|---------------|---|
| SEGi Diploma in Computer Studies | Diploma | SPM/ O-Level / SM2 or equivalent (3 credits inclusive of Mathematics) | 2 to 2½ years | Kuala Lumpur Sarawak |
| SEGi Diploma in Information Technology | Diploma | SPM/ O-Level / SM2 or equivalent (3 credits inclusive of Mathematics) | 2 to 2½ years | Kota Damansara Kuala Lumpur Subang Jaya Penang |
| SEGi Foundation in Science | Foundation | SPM/ O-Level / SM2 or equivalent (5 credits) | 1 year | Kota Damansara Subang Jaya Penang Sarawak |
| SEGi Foundation in Information Technology | Foundation | SPM/ O-Level / SM2 or equivalent (5 credits inclusive of Mathematics) | 1 year | Kuala Lumpur |
| SEGi Certificate in Information Technology | Certificate | SPM/ O-Level / SM2 or equivalent (1 credit and a pass in Mathematics) | 1½ years | Kuala Lumpur Subang Jaya Penang |

^{*} Students obtain Dual Degree from **SEGi University** and the **University of Abertay Dundee, UK**

Study Route



PhD IN INFORMATION TECHNOLOGY BY RESEARCH

The PhD (IT) programme is conducted fully by research and aims to groom scholars in the field of information technology. The programme prepares the scholar for one of four likely career paths; a career as an academician in an institution of higher learning, a consultant in the lucrative IT industry, a technopreneur or research careers in industrial R&D or government-funded research institutions.

Programme Modules

Year 1

Semester 1

Advanced Research Methods and Design

Semester 2

· Research Proposal and Seminar

Semester 3

· Research and Thesis

Year 2

Research and Thesis

Year 3

· Research and Thesis

Career Opportunities

Graduates of PhD in Information Technology by Research have gained employment in both public and private sector organisations in a range of technology related positions such as IT consultants, IT managers, systems analysts, business analysts, e-Business consultants, information systems analysts, information systems strategic managers, business development managers and project managers.

MSC IN INFORMATION TECHNOLOGY BY RESEARCH

The MSc (IT) programme is conducted fully by research and aims to groom scholars in the The MSc (IT) programme is conducted fully by research and aims to groom conducted field of information technology. The programme prepares the scholar for one of four likely career paths; a career as an academician in an institution of higher learning, a consultant in the lucrative IT industry, a technopreneur or research careers in industrial R&D or governmentfunded research institutions.

Programme Modules

Year 1 Semester 1

Advanced Research Methods and Design

Semester 2

Research and Thesis

Semester 3

Research and Thesis

Year 2

Research and Thesis

Career Opportunities

Graduates of the MSc in Information Technology by Research have gained employment in both public and private sector organisations in a range of technology related positions such as IT consultants, IT managers, systems analysts, business analysts, e-Business consultants, information systems analysts, information systems strategic managers, business development managers and project managers.

UNIVERSITY OF GREENWICH, UK

MASTER OF SCIENCE INFORMATION SYSTEMS MANAGEMENT



With the increasing dependence on the use of technology and information, the art of representing information by technology is fast becoming an inexact and blurred science.

The MSc Information Systems Management postgraduate programme aims to provide students with sound knowledge of planning and control of information systems. It will give students the skills and knowledge of tools to build effective systems incorporating databases and front end web based technologies.

The programme also aims to develop the ability of students to critically analyse information and effectively use methods to understand information and information systems. In addition, it will enable students to make informed decisions concerning the use of information systems in a business environment.

Programme Modules

Core Modules

- · Systems Planning and Management
- · Information, Methods and Culture
- · Software Tools & Techniques
- Project Management
- Systems Modeling
- · Outsourcing. IT Management

Elective Modules

Any 2 Modules:

- Internet & Web Technologies (Open Source Systems)
- · Data Warehouse
- Audit and Security

Project and Dissertation

A substantial individual project on a topic chosen by the student as well as a course in Critical Thinking & Research Methods

Career Opportunities

Graduates of the MSc Information Systems Management have gained employment in both public and private sector organisations in a range of technology related positions such as IT consultants, IT managers, systems analysts, business analysts, e-Business consultants, information systems analysts, information systems analysts, information systems strategic managers, business development managers and project managers.

SEGI UNIVERSITY

BACHELOR OF INFORMATION TECHNOLOGY (HONS)

Dual Award





Specialisations Available

- · Business Systems Design
- · Computer Networks
- Software Engineering



Microsoft[®] IT Academy Program Member



The SEGi Bachelor of Information Technology (Hons) programme is ideal for students who wish to study the latest technological developments, techniques, and tools in IT while developing knowledge, understanding and skills relevant in the ICT industry and profession. The programme also allows students to develop higher level of entrepreneurial and cognitive skills, where focus is given to the competency of analysis, synthesis, creativity and evaluation while developing other transferable skills such as problem-solving and interaction. Students will be well prepared with a range of practical, business and personal skills for the many specialist roles within the ICT and business sectors.

The Bachelor of Information Technology (Hons) will also provide students with the opportunity to gain accreditation towards professional certifications, including Java, Oracle, Microsoft, and EC-Council.

Students graduating from the SEGi University Bachelor of Information Technology (Hons) programme will also receive a separate degree parchment issued by the University of Abertay Dundee, apart from their SEGi degree parchment.

Programme Modules

Year 1

- · Discrete Mathematics
- Commercial Applications and IT
- Introductory Programming
- Computer Architecture
- Advanced Academic English
- · Systems Design
- · Introduction to Networks
- Database Systems
- · Object-Oriented Programming
- Devices and Systems
- Introduction to Operating Systems

Year 2

- · Project Management
- Web Project
- Environmental Management and Technology
- · Information Systems Security
- Rapid Development Tools
- Academic Research

And choose five of the following specialisation subjects:

- · Advanced Programming + @
- · Programming for Mobile Devices +
- Systems Development Methods *
- Digital Content Development *
- Networks and Communications @Introductory Software Engineering +
- Web Authoring '
- Wireless Communications @

- Business Online * @
- · Windows Programming +
- · Web Services +
- · Conceptual Design and Creativity *
- Networks and Systems Administration @

Year 3

- · Final Year Project (double module)
- · Business Ethics
- Industrial Attachment
- IT & People
- Entrepreneurship

And choose three of the following specialisation subjects:

- Alternative Programming Approaches +
- · Advanced Database Systems * +
- Advanced Networks @
- ICT Service Management @
- Business Computing Strategy *
- Software Architecture + @
- Client-Focused Business Solution *

Note: Compulsory for specialisation

- * denotes Business Systems Design
- @ denotes Computer Networks
- + denotes Software Engineering

As part of the curriculum, students will be required to take 4 general subjects (Mata Pelajaran Umum), as required by the Ministry of Education, Malaysia

Career Opportunities

Bachelor of Information Technology programme have gained employment in both public and private sector organisations in a range of technology related positions such as IT consultants, IT managers, systems analysts, business analysts, e-Business consultants, information systems analysts, information systems strategic managers, business development managers and project managers.

UNIVERSITY OF GREENWICH, UK

BACHELOR OF SCIENCE (HONS) COMPUTING (3+0)

The University of Greenwich BSc (Hons) Computing programme is ideal for students who wish to study general computing. This programme helps students to understand how computer systems are developed and offers training on the design and construction.

The broad-based approach of this programme allows a flexible learning experience as students can select individual courses in various related areas such as multimedia, information systems and business-oriented computing.

Programme Recognised by



Programme Modules

Year 1

- · Computer Systems and Internet Technologies
- · Computer Programming 1
- System Building 1
- · Logical Foundations
- · Analytical Methods
- · Communication Systems 1

Year 2

- · Organisation and Project Management
- Information Systems Development Project
- Computer and Network Systems
- Database Application Technologies
- Application & Web Development
- Personal and Professional Development
- · Research Methodology
- Internship

Year 3

- Project
- Interface Design
- Interaction Design
- IT Project & Quality Management
- Information System Engineering
- Web Engineering
- eCommerce



Career Opportunities

Upon completion of the BSc (Hons) Computing programme graduates can pursue employment options in a range of computing areas such as IT support and consultancy, as well as Internet and e-commerce applications. Graduates can choose to work as independent consultants or for public and private sector organisations in a range of technology related roles.

Upon completion of this programme, students will also have the option to pursue a wide range of Master programmes.

UNIVERSITY OF GREENWICH, UK

BACHELOR OF SCIENCE (HONS) COMPUTING WITH DIGITAL MEDIA (3+0)



The multimedia and entertainment sector, including web design and development, is a dynamic and ever-evolving industry that offers excellent career opportunities for talented students. Having grown significantly over the past decade, there is now an increased need for skilled computer programmers, designers and multimedia specialists. Given the constant changes within the industry, there is now a requirement for graduates to possess an understanding of user interfaces, user requirements, graphics, animation and virtual reality, a proficiency in audio and video production techniques as well as the skills of a traditional computing graduate.

The University of Greenwich BSc (Hons) Computing with Digital Media teaches skills, knowledge and understanding of software development, computer systems and multimedia development, while also developing skills in related technologies such as user interfaces, graphics and audiovisual production techniques.

Programme Modules

Year 1

- · Computer Systems and Internet Technologies 1
- · Computer Programming 1
- System Building 1
- · Digital Media Foundations
- · Communication Systems 1

Year 2

- · Organisation and Project Management
- · Information Systems Development Project
- Digital Media Production
- Database Application Technologies
- · Application & Web Development
- · Personal and Professional Development
- Research Methodology
- · Internship

Year 3

- · Project
- Interface Design
- Interaction Design
- Digital Creativity and Digital Futures
- IT Project & Quality Management
- eCommerce

Career Opportunities

Graduates can pursue employment opportunities in the multimedia industry to provide computing input and technological support into the multimedia production effort, as well as many mainstream computing areas such as IT support and consultancy, and Internet and e-commerce applications. Graduates can choose to work as independent consultants or for public and private sector organisations in a range of technology related roles.

Upon completion of this programme, students will also have the option to pursue a wide range of Master programmes.

DIPLOMA IN COMPUTER STUDIES

With the growing dependence on Information Technology for all aspects of work and personal life as well as the ever-changing nature of the industry, the demand for skilled professionals continues to increase. In line with this worldwide demand, SEGi has developed programmes that are both flexible and relevant to industry needs.

The SEGi Diploma in Computer Studies programme is designed to equip students with a strong foundation in computer technologies, the Internet and networking, database administration and programming with the aim of preparing students for immediate job placement in the challenging IT field.

Upon completion of the programme, students will possess knowledge required to become a competent professional with strong technical and analytical skills.

Programme Modules

Introductory and Application

- Basic Mathematics for Computing
- Study Skills in English
- PC Competence

Designing (Multimedia and Website)

- Multimedia Development
- · Website Designing
- · Commerce

Research and Project

- Academic Research
- · Integrated Systems Project

Programming and Databases

- Introduction To Programming and Databases
- Computer Programming Methodology
- Programming in Java
- Visual Basic.Net

Technology, Networking and Computer Architecture

- · Computer Technology Systems
- Data Communication and Networking
- Computer Organisation
- Operating Systems

Communication and Business

- English for Business Communication
- Business Communication
- · Business Organisation

System Design, Development and Management

- Systems Development
- · Project Management
- Software Environment and Design
- Systems Analysis and Design
- Data Structures and Algorithms
- Application Development
- Information Management

Career Opportunities

Graduates of the SEGi Diploma in Computer Studies are well poised to pursue job roles across a variety of different industry sectors. Possible job titles relevant to this qualification include IT administrators, data processing administrators, computer programmers, information technology managers, network support assistants, network managers, quality control managers, systems analysts, data analysts, software engineers and systems support specialists.

Graduates can also consider venturing into a range of degree programmes and, depending on units completed during their studies, students may be eligible to apply for advanced standing.

DIPLOMA IN INFORMATION TECHNOLOGY

Today, the study and scope of Information Technology has ballooned to encompass many aspects of computing and technology. IT professionals perform a variety of duties that range from data management, networking and engineering computer hardware to database design, software design and the management and administration of entire systems.

The SEGi Diploma in Information Technology programme teaches students to handle the challenges of IT management, software engineering and development techniques. Students will develop skills required for application in integrated databases, systems, networks and communication technology within a business context.

Upon completion of the programme, students will possess an academic qualification as their foundation to become competent professionals with strong technical and analytical skills.

Programme Modules

Computer Fundamentals

- · Basic Mathematics for Computing
- Commercial Applications & IT
- · Digital Content Development
- · Conceptual Design & Creativity

Information Systems Development

- · Project Management
- Integrated Systems Project
- · Systems Analysis and Design
- Systems Development
- · Industral Attachment

Computer Programming & Architecture

- · Programming Methodology
- · Windows Programming
- · Introduction to Programming Languages
- Data Structures and Algorithms
- Introduction to Operating Systems
- Object Oriented Development
- Introduction to Software Engineering
- · Web Designing

Computer Communication

Data Commmunication and Networking

Business Information Technology

- · Principles of E-Commerce
- Database Management Systems
- Management Information Systems

Compulsory Subjects

- General Language Training
- Academic English
- · Academic Research

Career Opportunities

Graduates of the SEGi Diploma in Information Technology are well poised to move directly into employment, pursuing job roles at the forefront of IT related Industries. Possible job titles relevant to this qualification include network administrators, information systems managers, database administrators, information systems analysts and helpdesk support managers.

Graduates can also consider venturing into a range of degree programmes and, depending on units/electives completed during their studies, students may be eligible to apply for advanced standing.

FOUNDATION IN SCIENCE

The SEGi Foundation in Science programme is designed to equip students with the knowledge and skills needed to meet the demands of undergraduate study and bridge the transition from secondary studies to a university degree in a variety of science and technology related fields. Upon completion of this one-year science-oriented foundation programme, students are guaranteed entry into science and technology degree programmes from top-notch universities in UK offered in partnership with SEGi.

The Foundation in Science at SEGi is fully accredited by the Malaysian Qualifications Agency (MQA).

Programme Modules

Semester 1

- · Mathematics 1
- Physics 1
- · Chemistry 1

Semester 2

- · Mathematics 2
- Physics 2
- · Chemistry 2

Semester 3

- · Information Technology 1
- Information Technology 2

Career Opportunities

This qualification is specially designed for students with SPM, O-Level or equivalent qualifications and who have decided to pursue a career in science or technology. Upon successful completion of the SEGi Foundation in Science programme, students can venture into a range of science degree programmes and, depending on units completed during their studies, students may be eligible to apply for advanced standing.

FOUNDATION IN INFORMATION TECHNOLOGY

The SEGi Foundation in Information Technology programme is designed to equip students with computer awareness together with skills in mathematics and the practice needed to meet the demands of undergraduate study and bridge the transition from secondary studies to a university degree in a variety of computing and technology related fields. Upon completion of this one-year technology-oriented foundation programme students may gain entry into computing and information technology degree programmes from top-notch UK universities offered in partnership with SEGi.

The SEGi Foundation in Information Technology at SEGi is fully accredited by the Malaysian Qualifications Agency (MQA).

Programme Modules

Semester 1

- Basic Mathematics
- Introduction to Information Technology
- · PC Competence
- Personal and Professional Development

Semester 2

- · Statistics
- · Introduction to Programming
- · Fundamentals of Multimedia
- English I
- Statistics

Semester 3

- · Introduction to Management
- English II
- Introduction to Databases

Career Opportunities

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 programme, students can venture into a range of computing and information technology degree programmes and, depending on units completed during their studies, students may be eligible to apply for advanced standing.

CERTIFICATE IN INFORMATION TECHNOLOGY

The SEGi Certificate in Information Technology aims to provide students with the skills and knowledge for an individual to be competent in introductory technology activities, support information activities in the workplace and to achieve a degree of self-sufficiency as an advanced technology user.

Upon successful completion of the programme, students will be able to demonstrate fundamental knowledge of a range of introductory technical skills as well as technical support skills applicable to varied roles across a broad cross-section of industries.

Programme Modules

Semester 1

- · Introduction to Information Technology
- · Study Skills in English
- · Fundamentals of Multimedia
- · Application Software

Semester 2

- Basic Mathematics for Computing
- English for Business Communication

Semester 3

- · Computer Graphics
- Introduction To Animation
- Introduction to Problem Solving & Algorithms
- · Introduction to Desktop Publishing

Semester 4

- · Introduction to Website Designing
- Introduction To Databases

Career Opportunities

The SEGi Certificate in Information Technology has been especially designed for students who have completed their SPM (1 credit) or equivalent qualification with little or no computing or technology experience and are seeking better career prospects or a pathway for further studies. Upon successful completion of the programme, students can venture into diploma or degree level studies, or transition into a career as a call centre support representative, client support officer, computer operator, customer liaison, customer service representative, help desk officer/ technician, operations support officer, IT technician and more.

the best in you, made possible



SEGi University (KPT/JPT/DFT/US/B36)

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SEGi Programmes Available

HEALTH SCIENCES · Medicine · Pharmacy · Optometry · Dental Surgery ENGINEERING & THE BUILT ENVIRONMENT · Mechanical · Civil · Chemical · Electronic & Electronic & Electronic & Environmental Technology · Construction Management · Automotive Technology · Environmental Management Technology BUSINESS & ACCOUNTING · Administration · Accounting & Finance · Management · Business Administration · Marketing · Marketing Management · Business Psychology · Islamic Banking · Accounting & Financial Management · Human Resource Management COMPUTING & TECHNOLOGY · Computing · Information Technology · Multimedia · Computer Studies · Information Systems Management AMERICAN DEGREE PROGRAM · Management · Marketing · Communications · Psychology · Business Administration · Finance · Human Resource Management ALLIED HEALTH SCIENCES · Nursing · Healthcare · Environmental Health · Medical Laboratory Technology · Dental Surgery Assistant HOSPITALITY & TOURISM · Hotel Management · Culinary Arts · Hospitality · Tourism · International Tourism & Hospitality CREATIVE ARTS & DESIGN · Advertising Design · Photography · Creative Multimedia · Video & Animation · Graphic Design · Fashion Design · Interior Design · Communication · Mass Communication · Multimedia Design · Visual Communication Design · Music EDUCATION & SOCIAL SCIENCES · Montessori Pedagogy · Tertiary Teaching · Early Years Education · Psychology · Early Childhood Education · Education · Early Childhood Care & Education POSTGRADUATE STUDIES · PhD · MBA · MSc · Financial Planing · Management · Business Administration · General Management · Global Business · Entrepreneurship · International Business FOUNDATION STUDIES · Commerce · Arts · Science · A-Level · Information Technology ENGLISH LANGUAGE STUDIES · English and Public Relations · Intensive English Programme

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