



**CITY UNIVERSITY
MALAYSIA**

DKU011(B)

**FACULTY OF
INFORMATION
TECHNOLOGY**



**RECOGNIZED &
CERTIFIED BY THE
PROFESSIONAL BODIES:**



Agensi Kelayakan Malaysia
Malaysian Qualifications Agency



FOUNDATION IN INFORMATION TECHNOLOGY

(R2/010/3/0315)(A10442)03/2025

Credit Hours: 50 Duration of Study: 1 year



PROGRAMME DESCRIPTION

The Foundation in Information Technology programme is tailored to provide students with a direct route into related degree programmes such as IT and software engineering. The core modules integrated in the programme shall equip the students with strong theoretical foundation to fully prepare them for their degree journey. The programme is structured in ways that map explicitly with modern technology and in line with industry. The programme aims to give students the skills to study specialist technology topics later in their degree programme. In addition to that, the programme also strengthens English proficiency through its comprehensive English modules.

TERTIARY EDUCATION PROSPECTS

- Bachelor of Computer Science (Hons) (Software Engineering)
- Bachelor of Information Technology (Hons)

SUBJECTS OFFERED

- Bahasa Kebangsaan A / Profesional Communication
- Pengajian Malaysia 2 / Bahasa Melayu Komunikasi 1
- Foundation English 1
- Basic Statistics
- Introduction to Office Software Applications
- Principle of Management
- Introduction to Web Design
- Foundation English 2
- Study Skills
- Introduction to Database Technology
- Introduction to Computer Technology
- Introduction to Multimedia Technology
- Introduction to Programming

DIPLOMA IN INFORMATION TECHNOLOGY

(R2/481/4/0610)(A6106)03/2025

Credit Hours: 90 Duration of Study: 2 1/2 years



PROGRAMME DESCRIPTION

This programme prepares students to work in an exciting career and profession in the area of information technology and develop specialized skills in the area of networking and multimedia. Additionally, students will be able to troubleshoot routine issues at organizational level.

CAREER PROSPECTS

Junior Programmer, Junior System Analysts, Junior IT Analyst, Junior Support Executive/ Consultant, Junior Database Developer, Junior Web Developer, Junior Network Engineer, Junior Network Analyst, Multimedia Developer, among others.

SUBJECTS OFFERED

YEAR 1

- Professional Communications
- Academic English 2
- Computer Programming
- Calculus
- Principle of Management
- Pengajian Malaysia 2 / Bahasa Melayu Komunikasi 1
- Academic English 1
- Computer Software Applications
- 2D Animation
- Mathematics for Computing
- Fundamentals of Networking
- Data Structure
- Academic English 3

YEAR 2

- Co Curriculum
- Database Organisation
- Computer Organization
- Computer Security
- Introduction to Web Design
- Computer Graphic / Routing and Switching
- Information Systems
- Operating Systems
- Motion Graphic Application / Scaling Network
- Introduction to Software Engineering
- System Analysis & Design
- Project
- Bahasa Kebangsaan A / Basic Entrepreneurship
- Application Design / Connection Network

YEAR 3

- Industrial Training

* Elective Subjects- Group 1 Choose any Three (3)

- Computer Graphics
- Motion Graphics Application
- Applications Design

OR

* Elective Subjects- Group 2 Choose any Three (3)

- Routing and Switching Essentials
- Scaling Network
- Connection Networks

BACHELOR OF INFORMATION TECHNOLOGY (HONS)

(R/481/6/0611)(A11216)07/2020

Credit Hours: 120 Duration of Study: 3 years



PROGRAMME DESCRIPTION

This programme will equip and develop students' technical knowledge and skills in Information Technology with specialized skills in Web Design and Development as well as Mobile App Development. This programme will, also develop a specialized skill on Big-Data, Blockchain and Cloud Computing.

CAREER PROSPECTS

Programmer, System Analysts, IT Analyst, Support Executive/ Consultant, Database Developer, Web Developer, Blockchain Developer, Big-Data Analyst, Cloud Service & Analyst, Mobile App Developer, Network Engineer, Software Engineer, Software Developer, among others.

SUBJECTS OFFERED

YEAR 1

- Fundamental of Information Technology
- Professional Communication in IT
- Computer Programming
- Fundamental of Computational Thinking: Python
- Academic Skills / Bahasa Kebangsaan A
- Data Structure
- Discrete Mathematics
- English for Academic Purposes
- Software Engineering
- English for Employment
- Object Oriented Programming
- Operating Systems
- Database System
- Introduction to Multimedia
- Computer Organization

YEAR 2

- Co-Curriculum
- DevOps: Transforming & Improving
- Elective 1 (Human Computer Interaction / Cloud Foundation)
- Hubungan Etnik / Pengajian Malaysia III
- Web Development
- Data Warehousing
- Systems Analysis and Design
- Artificial Intelligence
- Fundamentals of Modern Data
- Tamadun Islam Dan Tamadun Asia (TITAS) / Bahasa Melayu Komunikasi II
- Computer Communication and Networks
- Introduction to Mobile App Development
- Software Project Management
- Elective 2 (Web Programming / Cloud Architecturing)
- Decision Support System

YEAR 3

- Cyber Security
- Elective 3 (Introduction to NoSQL Data Solutions/ Blockchain & Cryptocurrency Concept)
- Project 1
- Elective 4 (Analyzing and Visualizing Data with Power BI / Excel / Advance Blockchain and Cryptography)
- Entrepreneurship
- Project 2
- Network Management
- E-Commerce
- Industrial Training

* Elective Subjects Choose 4 out of 8

- Human Computer Interaction
- Web Programming
- Introduction to NoSQL Data Solutions
- Analyzing and Visualizing Data with Power BI / Excel
- Cloud Foundation
- Cloud Architecturing
- Blockchain & Cryptocurrency Concept
- Advance Blockchain and cryptography

BACHELOR OF COMPUTER SCIENCE (HONS) (SOFTWARE ENGINEERING)

(R/120/6/0612)(A11215)05/2025

Credit Hours: 120 Duration of Study: 3 years



PROGRAMME DESCRIPTION

This programme will be able to improve students' skills in developing and managing high-quality software in a systematic, controlled, effective and efficient manner through software engineering techniques, methods & tools. This program will develop a specialized skill on Data Science, Blockchain and Cloud Computing.

CAREER PROSPECTS

Data Scientist, Blockchain Developer, Cloud Service & Analyst, Database Developer, Database Analyst, Web Analyst, IT Consultant, Programmer, IT Executive Support, IT Consultant, Network Analyst, Business Analyst, Data Analyst, Software Engineer, Software Developer, among others.

SUBJECTS OFFERED

YEAR 1

- Discrete Mathematics
- Introduction to Multimedia
- Computer Programming
- Software Engineering
- Fundamental of Computational Thinking: Python
- Data Structure
- English for Academic Purposes
- Academic Skills
- Hubungan Etnik / Pengajian Malaysia III
- English for Employment
- Calculus
- Operating Systems
- Database System
- Object Oriented Programming

YEAR 2

- Co-Curriculum
- DevOps: Transforming & Improving
- Elective 2 (Cloud Foundation / Analyzing and Visualizing Data with Power BI / Excel)
- Modelling Simulation
- Software Testing
- Algorithm & Complexity
- Systems Analysis and Design
- Artificial Intelligence
- Fundamentals of Modern Data
- Tamadun Islam Dan Tamadun Asia (TITAS) / Bahasa Melayu Komunikasi II
- Computer Communication and Networks
- Software Project Management
- Software Architecture & Design
- Elective 1 (Human Computer Interaction / Web Programming)
- Software Quality Assurance

YEAR 3

- Web Development
- Elective 3 (Cloud Architecting / Blockchain & Cryptocurrency: Concepts)
- Project 1
- Software Integration & Improvement
- Entrepreneurship / Bahasa Kebangsaan A
- Project 2
- Usability Engineering
- Elective 4 (Analytics Storytelling for Impact / Introduction to Mobile App Development / Virtual Reality)
- Cyber Security
- Industrial Training

* Elective Subjects Choose 4 out of 10

- Human Computer Interaction
- Web Programming
- Analyzing and Visualizing Data with Power BI / Excel
- Analytics Storytelling for Impact
- Cloud Foundation
- Cloud Architecting
- Introduction to Mobile App Development
- Blockchain & Cryptocurrency: Concepts
- Virtual Reality
- Advance Blockchain and cryptography

Words of Encouragement from Professional Bodies of Malaysia



The development of the Occupational Safety and Health industry is very fast. So the number of skilled manpower in this field are in a very high demand. The courses offered in this field in City-U is very much in-line with the current requirements of the industry.

Dato' Ir. Mohtar Musri

Director General, Department of Occupational Safety & Health Malaysia (2017)



Students from City-U have the capabilities, the much needed knowledge and talent in this growing industry. At the same time, the ability can be applied if they are planning to pursue their studies in the next level.

Ar. Mohd Zulhemlee An

President of the Association of Malaysian Architects (2015)



Education coordination between ACCA and City-U benefits the accounting students in this institution. Students in City-U are granted 7 exceptions out of the 14 subjects to be taken to obtain ACCA accreditation.

David Chin

Chairman of ACCA Malaysia (2016)



The field of information technology now requires graduates who understand their functions thoroughly. Of course, the outstanding students in this course will be in demand of any company. I believe that City-U graduates can also prove their worth.

Augustine Chan

Microsoft Authorized Education Reseller Program Manager



High quality and competitiveness is one thing I can see in City-U students. The quality of the students who are undergoing our industrial training programme is very good. So we do not hesitate to continue absorbing them as our employees here.

Prithipal Singh

Chief Executive Officer of Jet Asia (2007- Present)



I can say that students from City-U demonstrate good working quality. Even though they have just completed their studies, they are not clumsy and the way they work also shows that they have been trained very well at the institution before entering the real world of work life.

Minizar Francis Nordin

Chief Medical Technology of Kelana Jaya Medical Centre



The ability of City-U learners in some ways has convinced our customers that each of the designs and creations has its own significance. Thus, the City-U graduates are in-line with the widespread demands of the industry.

Ar. Jeffery Cheah

Principal and Managing Director of Syarikat Seni Bina Zone (1993-Present)



City-U students undergoing industrial training in my company are highly capable, able to work independently and are able to meet the demands of this industry in general.

Ir. Johan Zakaria

Director of Syarikat Johan Setia Perunding (M) Sdn. Bhd. (2000-Present)

Industry Partners:

Architecture / Interior Design

- Arkitek Aliran Cipta Consultancy Sdn Bhd
- Ang Interior Design Sdn Bhd
- Arkitek Akiprima Sdn Bhd
- Arkitek MAA Sdn Bhd
- Associated Group Architect
- ASTEC Development Centre
- Busree Design Pelukis Pelan Sdn Bhd
- CHL Building Service
- CS Chew Architect Sdn Bhd
- Edutex Trading Sdn Bhd
- Empire Perunding Sdn Bhd
- IDENT-3 Sdn Bhd
- MJ Fire Protection & Services Enterprise
- MST Muassal Global Sdn Bhd
- Pakatan Arketik Sdn Bhd
- Pembinaan Kekal Mewah Group
- SAO Architecture & Interior Design
- Sato Kogyo (M) Sdn Bhd
- Sazlan Dev Sdn Bhd
- SKA Technology Sdn Bhd
- SNLOW Associate
- UTM Shah Alam
- Vantage Architect Sdn Bhd
- Worldarch Trading Sdn Bhd
- ZAP Group Architects Sdn Bhd
- Zon Design Rekabina Sdn Bhd

Asset Management

- Infra Desa (Johor) Sdn Bhd
- Selia Selenggara Sdn Bhd
- Selia Selenggara Selatan Sdn Bhd
- Selia Selenggara Engineering Sdn Bhd
- Selia Facility Management Sdn Bhd

Assets/ Property

- Pejabat Daerah Kunak Pembangunan (E-Kasih)
- UEM Sunrise

Manufacturing / Quarry / Heavy Industry / Machinery / Equipment

- Airflow Services Sdn Bhd
- Builder Sdn Bhd
- Ceramic (Seramic) Sdn Bhd
- Gemencheh Granite Sdn Bhd
- Kim Hin Ceramic (Seremban) Sdn Bhd
- Malay-Sino Chemical Industries Sdn Bhd
- Malaysia Marine & Heavy Engineering Sdn Bhd
- Press Metal Bintulu Sdn Bhd
- S-Form System Formwork
- Sidratul Corporation (M) Sdn Bhd
- Southern Premix Sdn Bhd

Oil & Gas

- Petronas Gas Bhd
- Sapura Kencana Petroleum Bhd

Construction / Property Development

- AUS- Builder Corporation Sdn Bhd
- BMIG D.O.O
- Brunfield Group/ Aligan Construction
- CDZ Entrprise Sdn Bhd
- Elmibina Sdn Bhd
- FCB Construction (M) Sdn Bhd
- Geohan Sdn Bhd
- Jabatan Kerja Raya
- Malaysia Mosaic (MML)
- MBI Development D.O.O
- NS Construction Sdn Bhd
- PJD Construction
- Perfect Hallmark
- Selia Pantai Sdn Bhd
- Selia Group
- Sunway Construction

Toll Operation

- Swarna Tollway Pvt Ltd

Farming / Agriculture

- Cargill Palm Product Sdn Bhd
- Pertubuhan Peladang Negeri Johor
- Sime Darby Jomalia Sdn Bhd

Consultation (Business, IT, Science, Engineering & Technical)

- 88DB Malaysia Sdn Bhd
- Enigma Mutiara Sdn Bhd
- Bi Technologies Corporation Sdn Bhd
- Brandme Associate Sdn Bhd
- Bumi Kreatif Niaga
- IDW Sdn Bhd
- DOM Solution Sdn Bhd
- Lambda Technologies Sdn Bhd
- Pasadana Sdn Bhd

Child Education Material Manufacturing / Supplier

- Azam Wira Resources
- Azam Perkasa Resources
- K Mode Marketing

Education

- Cambridge English For Life
- Windfield Academy Sdn Bhd

Food & Drink

- Sushi King
- PickNik
- Paper & Toast

Environment / Health / Safety

- Malaysia Society or Occupational Safety And Health
- Safety And Health Service Sdn Bhd
- Safety And Health Enterprise
- Brightway Holdings Safety and Health
- Jabatan Keselamatan Jalan Raya Negeri Sembilan

Engineering

- Alloy MTD Sdn Bhd
- Asia Pacific Engineering Consortium
- B&G Concept Engineering Sdn Bhd
- Bina Masyhur Sdn Bhd
- BH (India Pvd Ltd)
- Brooke Dockyard and Engineering Works Corporation
- HJS Engineering Sdn Bhd
- Malaysia Marine and Heavy Engineering Sdn Bhd (MMHE)
- New Hoong Fatt Holdings
- Port Dickson Power Bhd
- Sapura Kencana
- Toyo Engineering Corporation
- UEM Builders Logistic
- Bersatu Integrated Logistic
- Far-Go Link Freight Service

Hotel / Hospitality

- Armada Hotel
- Brisdale Kuala Lumpur
- Cititel Hotel
- Concorde Hotel Shah Alam
- Corus Hotel Kuala Lumpur
- De Palma Inn Shah Alam
- Flamingo Hotel
- Furama Hotel Kuala Lumpur
- Grand Bluewave Hotel Shah Alam
- Grand Seasons Hotel Kuala Lumpur
- Holiday Villa Hotel & Resort
- Intekma Resort & Convention Centre
- Mines Wellness Hotel
- One World Hotel
- Pacific Regency Hotel
- Pearl International Hotel
- Piccolo Hotel Kuala Lumpur
- Quality Hotel Shah Alam
- Radius Hotel
- Saujana Hotel
- Silka Maytower Hotel Kuala Lumpur
- Sheraton Imperial Hotel Kuala Lumpur
- Summit Hotel Subang USJ
- Sunway Resort Hotel & Spa
- The Legend Hotel
- The Villas At Sunway Resort Hotel
- Vistana Hotel Kuala Lumpur

Advertising / Marketing / Promotion / PR

- Cathay Cineplex
- Perfect Hallmark
- Reddhoooter Studio

Telecommunication

- Merchantrade Asia Sdn Bhd
- Telekom Malaysia Sdn Bhd

Travel & Tours

- Malaysia Airlines System

Fashion

- Hatta Dolmat Couture

Health / Medical

- ASP Medical Clinic Sdn Bhd
- Azalea Dialysis Center C/O Nur dan Anak Anak Sdn Bhd
- Bangsar South Surgical Clinic
- Bintulu Medical Centre
- BP Clinical Lab Sdn Bhd
- Damai Service Hospital
- Darul Ehsan Medical Centre (DEMC)
- Focus Point Vision Care
- Healol Pharmaceutical Sdn Bhd
- Hospital Baling, Kedah
- Hospital Jempol, Negeri Sembilan
- Hospital Kampar, Perak
- Hospital Kluang, Johor
- Hospital Serian, Sarawak
- Hospital Sultan Abdul Halim, Kedah
- Hospital Tanah Merah, Kelantan
- Hospital Pakar Perdana
- KPJ Ampang Puteri Specialist Hospital
- Kempas Medical Centre
- Mawar Renal Hospital
- Normal Medical Center
- Orion Prokash (M) Sdn Bhd
- Ozone Therapeutic Action Sdn Bhd
- Perak Community Specialist Hospital
- Prince Court Medical Center
- PUSRAWI
- Rejang Medical Centre
- Sentosa Specialist Hospital
- UHPG Medical Services Sdn Bhd
- United Lab
- University Malaya Medical Centre
- Wellness Concept (M) Sdn Bhd
- Wellness Works Sdn Bhd



Get
Job-focused
training from
**OUR
INDUSTRY**



Malaysia Rating
**VERY
GOOD
(4STAR)**
SETARA-2017



**MORE THAN
60
PROGRAMMES
TO OFFER**



**MORE THAN
35,000
STUDENT
GRADUATES**



**OVER 98%
ARE HIRED BY
LOCAL AND
INTERNATIONAL
COMPANIES**

