

Diploma in Information Technology (Internet of Things)

KPT/JPS (N/482/4/0213)(MQA/PA14019)12/27

As the world elevates to the era of Fourth Industrial Revolution (IR4.0), it has created a great demand for talents in the Information Technology (IT) and related industries.

This programme is designed to equip students with broad-based knowledge and future-oriented skills, such as Internet of Things (IoT), Cloud Computing and Cybersecurity. These Tech Disruptive Skills are highly sought after by the industry.

Upon completion of this programme, students can join the workforce, become technopreneurs or further their studies at our partner universities in any field of specialisation, such as IoT and Cybersecurity.

INTAKE

January, May & August

2.5

Years Programme



Specialise in the Internet of Things (IoT)

IoT is about connecting devices to "talk" through internet. Students learn to design, operate and apply IoT in various industries.

Future-oriented Curriculum

Exposure to IoT Data Analytics, Cloud Computing and Cybersecurity in IoT.

Compulsory Industrial Training

12-week industrial training in the final semester provides real-life working experience and seamless transition to employment.

Entrepreneurship Driven

Build foundation as a Technopreneur through studies of Innovation, Entrepreneurship and Digital Business.

Industry Certification

Students can obtain International Certification of Digital Literacy (ICDL) for various IR4.0 skills set, as well as be certified by AWS Academy as a Cloud Practitioner.





PROGRAMME STRUCTURE

YEAR 1	YEAR 2	YEAR 3
<ul style="list-style-type: none">• Information Technology and Computer Science• Computer Organisation and Architecture• Fundamentals of Databases• Data Communication and Networking• Discrete Mathematics• Calculus and Algebra• Programming with C• Programming with Python• Design Thinking• Human Computer Interaction• Fundamentals of IoT• Processors and Peripherals• MPU I*• MPU II*• MPU III*	<ul style="list-style-type: none">• Wireless Communications and Networking• IoT Sensors and Devices• Data Processing and Visualisation• Cloud Computing for IoT• Mobile Computing• Project Management• Web Computing• Cybersecurity in IoT• IoT Data Analytics• Capstone Project• MPU IV*• Elective I• Elective II• Elective III	<ul style="list-style-type: none">• Industrial Training
ELECTIVE COURSES (choose 3 only)	<ul style="list-style-type: none">• Fundamentals of Innovation and Entrepreneurship• Digital Business	<ul style="list-style-type: none">• Machine Learning• Embedded System• Fundamentals of Software Engineering
*MPU Subjects:	<ul style="list-style-type: none">• Pengajian Malaysia• Communication Skills• Moral Studies• Service Learning• Bahasa Kebangsaan A - For local students who do not have credit in SPM BM• Bahasa Melayu Komunikasi 1 - For international students	

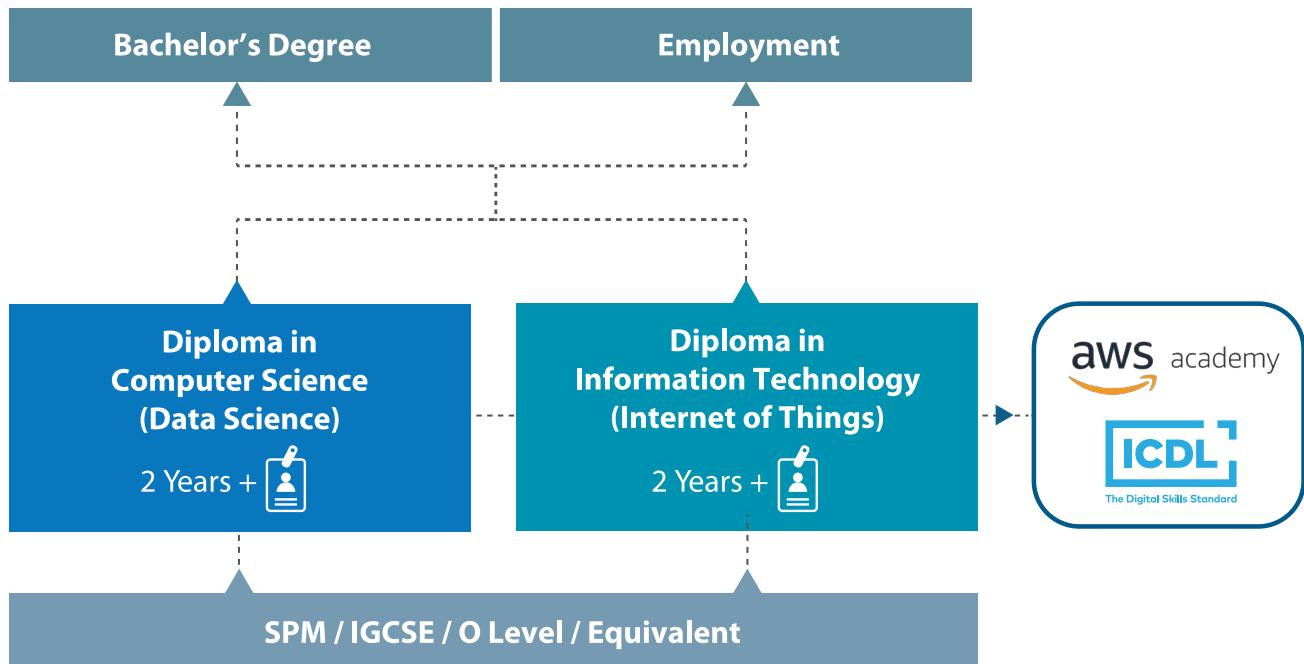
Career Options:

- Web Designer
- Web Developer
- App Developer
- Software Engineer
- Programmer
- System Analyst
- System Software Programmer
- Analyst Programmer
- IT Analyst
- ICT Manager
- ICT System Administrator
- Network Consultant
- IoT Specialist
- IoT Automation Engineer

NOTE:

* MPU Subjects: The Ministry of Higher Education (MOHE) requires all students to take Mata Pelajaran Umum (MPU) (i.e. General Studies) within the duration of their studies. MCKL established a series of subjects that different programmes need to implement for all students to meet the Ministry's requirements. Subjects will differ depending on the institution and the level of studies of the student.

EDUCATION PATHWAY



* Industrial Training (12 weeks)

ENTRY REQUIREMENTS

SIJIL PELAJARAN MALAYSIA (SPM)

Min. 3 credits including Mathematics and a pass in Bahasa Melayu and Sejarah (History)

O-LEVELS / IGCSE

Min. 3 credits including Mathematics

UNIFIED EXAMINATION CERTIFICATE (UEC)

Min. 3Bs including Mathematics

OTHER QUALIFICATIONS

Other equivalent qualifications recognised by the Ministry of Higher Education (MOHE) or Malaysian Government will be considered on a case-by-case basis

NOTE:

- Students 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.
- Students with a credit in computing-related subjects at SPM level or its equivalent may be given preferential consideration.