METHODIST
COLLEGE | KUALA LUMPUR
Veritas Vincit Omnia

MCKL COLLEGE
PENANG | PYKETT CAMPUS
Veritas Vincit Omnia

Computing & IT

Future Education @ MCKL

The World Economic Forum has identified *7 Emerging Profession Clusters* and *5 Future-Oriented Skills Clusters* in the Jobs of Tomorrow, January 2020 report. MCKL, as The Institution of Excellence for Life, is committed to develop future-ready students by delivering quality, relevant and in-demand curriculum.

7 Emerging Profession Clusters

People and Culture

Green Economy

Care Economy

Data and AI

Engineering and Cloud Computing

Sales, Marketing and Contents

Product Development

5 Future-Oriented Skills Clusters

Business Skills

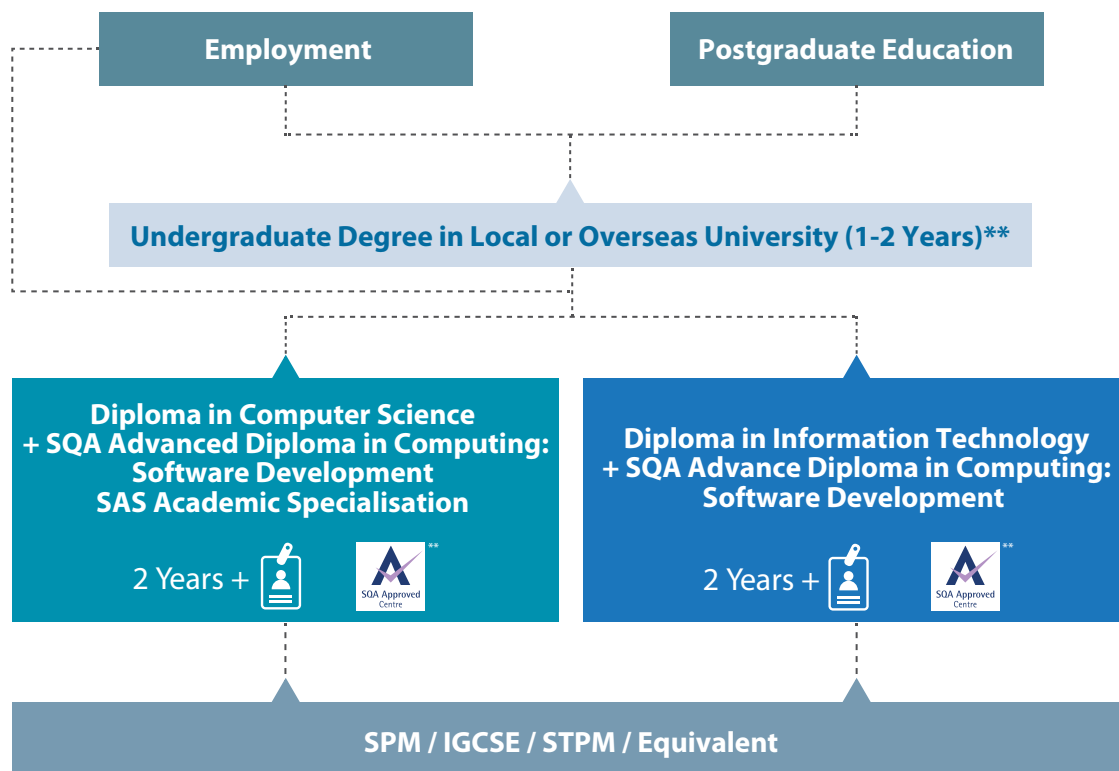**Specialised Industry Skills**

General and Soft Skills

Tech Baseline Skills

Tech Disruptive Skills

EDUCATION PATHWAY

Employment	Postgraduate Education

Undergraduate Degree in Local or Overseas University (1-2 Years)**

Diploma in Computer Science + SQA Advanced Diploma in Computing: Software Development SAS Academic Specialisation 2 Years + 🪪 (SQA Approved Centre)**	Diploma in Information Technology + SQA Advance Diploma in Computing: Software Development 2 Years + 🪪 (SQA Approved Centre)**

SPM / IGCSE / STPM / Equivalent

* 🪪 Industrial Training (12 weeks)

** Terms and Conditions Apply

ENTRY REQUIREMENTS

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

O LEVEL / IGCSE
Min. 3 credits including Mathematics

UEC
Min. 3Bs including Mathematics

SIJIL TINGGI PERSEKOLAHAN MALAYSIA (STPM)
Min. a Grade C in any subjects and a credit in Mathematics at SPM level or its equivalent

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

English Requirements (International)

CEFR	Mid B1
IELTS	4.5
TOEFL iBT	33
Or Equivalent	

NOTE:

- Candidates with a pass in Mathematics at SPM level (or Mathematics equivalent to SPM) and without a Mathematics subject in their admission qualification need to take and pass the reinforcement Mathematics subject that is equivalent to the SPM level. The reinforcement Mathematics subject must be offered in the first semester or before enrolment with an unconditional offer.

- Candidates with a credit in Computing-related subject(s) at the SPM level (or equivalent to SPM level) may be given preferential consideration.

Diploma in Information Technology

KL : (N/0611/4/0067) (12/27) (MQA/FA14019)
PG : (N/482/4/0227)(05/27)(MQA/PA14312)

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, June & August

2.5
Years Programme

One Programme, Two Certificates
MCKL is a Scottish Qualifications Authority (SQA) Approved Centre for delivering the SQA Advanced Diploma in Computing: Software Development. Upon completion, students will receive two certificates: the diploma from MCKL and the advanced diploma from SQA, providing them with more options for future progression.

SQA Approved Centre

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

Industry Certification
As a member institution of AWS (Amazon Web Services) Academy, MCKL offers cloud-related courses using AWS materials, preparing students for the AWS Certified Cloud Practitioner exam.

aws academy

Industry-Aligned Skills for Immediate Workforce Entry
Students gain a practical, industry-aligned skillset that ensures they are workforce-ready upon graduation.

Specialise in IoT and AI
Students explore the convergence of technology and innovation, delving into the realms of Internet of Things (IoT) and Artificial Intelligence (AI) to unlock the potential of interconnected devices and intelligent systems.

Fast Track to Final Year Degree in High Ranked Universities
Upon completion, students have numerous options for a final year degree at high-ranked universities, accelerating their education.

Affordable Overseas Pathway
Students can pursue quality education abroad at an affordable cost, providing access to diverse cultural experiences and internationally recognised qualifications. Special discounts are provided through our partner universities.

Specialised Lab for IoT
A dedicated IoT lab is equipped for students to explore practical applications of IoT equipment like microcontrollers, sensors, and electrical components, enhancing their learning experience.

*Terms and Conditions Apply

PROGRAMME STRUCTURE

SUBJECTS OFFERED

Core
- Computer Organisation and Architecture
- Fundamentals of Database
- Discrete Mathematics
- Calculus and Algebra
- Data Communications and Networking
- Computers and Operating Systems
- Programming with Python
- Systems Analysis and Design
- Statistics
- Cybersecurity
- Professionalism and Ethics in Computing

Discipline Core
- Design Thinking
- Human Computer Interaction
- Project Management
- Data Structure and Algorithms
- Mobile Computing
- Web Computing
- Object-Oriented Development
- Cloud Computing

Industrial Training

Capstone Project

Specialisation
- Fundamentals of IoT
- IoT Sensors and Devices
- IoT Data Analytics
- Introduction to Intelligent Systems
- Artificial Intelligence

*MATA PELAJARAN PENGAJIAN UMUM (MPU) SUBJECTS:
- Falsafah dan Isu Semasa
- Integrity and Anti-Corruption
- Character Formation
- 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.

Diploma in Computer Science

KL : (N/0613/4/0036)(12/27) (MQA/FA14018)
PG: (N/481/4/0835)(12/28)(MQA/PA14314)

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

This programme is designed to equip students with broad-based knowledge and future-oriented skills, such as Data Science, Cloud Computing, and Machine Learning. 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 Software Engineering and Data Science.

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

Industry Certification
As a member institution of AWS (Amazon Web Services) Academy, MCKL offers cloud-related courses using AWS materials, preparing students for the AWS Certified Cloud Practitioner exam.

Industry-Aligned Skills for Immediate Workforce Entry
Students gain a practical, industry-aligned skillset that ensures they are workforce-ready upon graduation.

Specialise in Data Science
An interdisciplinary study of computer science, mathematics, and statistics to harness vital information from big data for decision making.

Fast Track to Final Year Degree in High Ranked Universities
Upon completion, students have numerous options for a final year degree at high-ranked universities, accelerating their education.

Affordable Overseas Pathway
Students can pursue quality education abroad at an affordable cost, providing access to diverse cultural experiences and internationally recognised qualifications. Special discounts are provided through our partner universities.

Integrated Professional Certification
Students will be awarded the SAS Academic Specialization upon completion of this programme.

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PROGRAMME STRUCTURE

SUBJECTS OFFERED

Core
- Computer Organisation and Architecture
- Fundamentals of Database
- Discrete Mathematics
- Calculus and Algebra
- Data Communications and Networking
- Computers and Operating Systems
- Programming with Python
- Systems Analysis and Design
- Statistics**
- Cybersecurity
- Professionalism and Ethics in Computing

Discipline Core
- Design Thinking
- Human Computer Interaction
- Project Management
- Data Structure and Algorithms
- Mobile Computing
- Web Computing
- Object-Oriented Development
- Cloud Computing

Industrial Training

Capstone Project

Specialisation
- Fundamentals of Data Science**
- Data Processing and Visualisation**
- Introduction to Data Mining**
- Machine Learning**
- Big Data Architecture

** Uses SAS content and software.

*MATA PELAJARAN PENGAJIAN UMUM (MPU) SUBJECTS:
- Falsafah dan Isu Semasa
- Integrity and Anti-Corruption
- Character Formation
- 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:
- Applications Developer
- Programmer
- Software Engineer
- Software Architect
- Software Developer
- Systems Analyst
- Research Analyst
- Systems Developer
- Technical Support Engineer
- IT Analyst
- Network Engineer
- Database Administrator
- Data Analyst
- Data Engineer

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*S*ince its establishment in 1983, the College has gained a reputation of providing quality private education in the best of Methodist traditions. The educational experience is underpinned by core values, ethical standards and community involvement. Experienced lecturers teach classes and they give personal attention to their students. The College also provides student counselling (personal and academic), including making career choices and support for university applications.

MAIN CAMPUS

METHODIST COLLEGE KUALA LUMPUR
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Off Jalan Tun Sambanthan 4,
Brickfields, 50470 Kuala Lumpur,
Malaysia.

(+603) 2274 1851

admission@mckl.edu.my

www.mckl.edu.my

BRANCH CAMPUS

MCKL COLLEGE (PENANG, PYKETT CAMPUS)
DK144(W)
Lebuhraya Pykett Georgetown,
10400 Pulau Pinang, Malaysia.

(+604) 217 5088

admission.pg@mckl.edu.my

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