

LEADING THE DIGITAL FUTURE



VIRTUAL
REALITY



CLOUD
COMPUTING



CPU



AUTOMATION



ARTIFICIAL
INTELLIGENCE



BLOCKCHAIN



IOT

INFORMATION TECHNOLOGY & COMPUTER SCIENCE

WELCOME TO MMU!



Welcome to Multimedia University (MMU)!

At MMU, we believe that every student has the potential to succeed and make a positive impact. Our role is to guide and support you as you develop your skills, explore your interests, and prepare for the future.

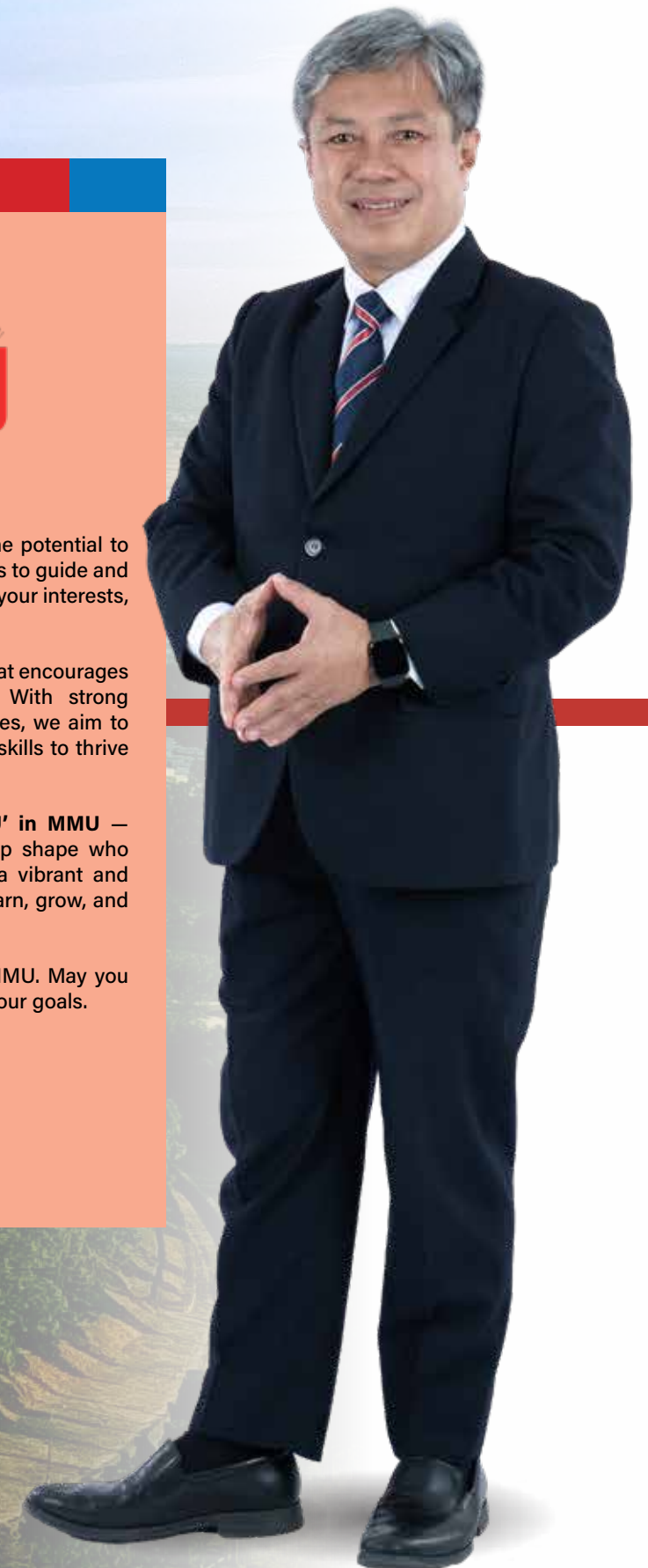
We are proud to offer a learning environment that encourages creativity, critical thinking, and innovation. With strong industry connections and hands-on experiences, we aim to equip you with both knowledge and practical skills to thrive in a fast-changing digital world.

Most importantly, we know that **There is 'U' in MMU** — because your ideas, energy, and passion help shape who we are as a university. Together, we create a vibrant and supportive community where everyone can learn, grow, and succeed.

I wish you all the best in your journey with MMU. May you make the most of your time here and achieve your goals.

Thank you.

Prof. Dato' Dr. Mazliham Mohd Su'ud
President/CEO
Multimedia University

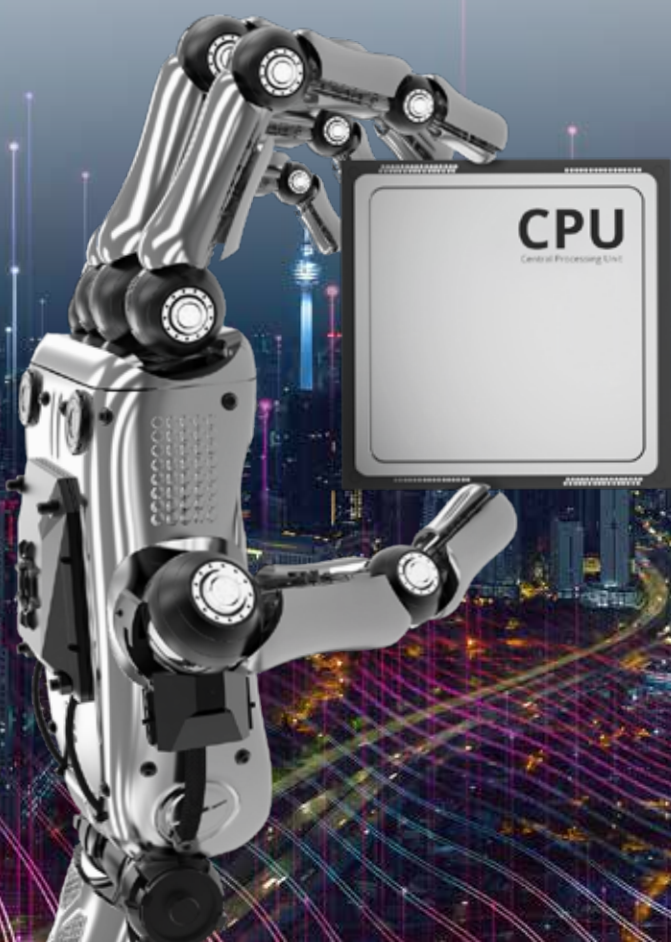


INFORMATION TECHNOLOGY & COMPUTER SCIENCE

If you are passionate about a career in Information Technology and Computer Science, MMU is the ideal place to transform your aspirations into reality. MMU offers award-winning, industry-driven, and future-ready degree programmes designed to equip you with the skills and knowledge to excel as an ICT specialist.

At MMU, we are committed to empowering our students with expertise and innovation. Our programmes are crafted to enhance your technical proficiency, critical thinking, and employability in the dynamic field of ICT. Through the Faculty of Computing & Informatics (FCI) and the Faculty of Information Science & Technology (FIST), you will experience an industry-led curriculum that not only builds technical expertise but also strengthens soft skills and management capabilities.

Our lecturers are seasoned professionals and subject matter experts, bringing real-world experience and industry insights into the classroom. Beyond academics, MMU maintains strong collaborations with global technology leaders, ensuring that you gain exposure to cutting-edge innovations and emerging trends. With these strategic industry partnerships, you will always be at the forefront of technological advancements, ready to thrive in the ever-evolving digital landscape.



WHY STUDY INFORMATION TECHNOLOGY & COMPUTER SCIENCE AT MMU

Cutting-Edge Curriculum

Immerse yourself in a curriculum crafted to stay ahead of industry trends. Our courses are regularly updated to include the latest technologies and advancements in computer science.

World-Class Faculty

Learn from industry experts and dedicated educators with a wealth of experience in computer science. Our faculty is committed to your success, providing mentorship and guidance throughout your academic journey.

Industry Connections

Benefit from our strong ties with leading tech companies. Our extensive network of industry partners offers internship opportunities, guest lectures, and networking events, paving the way for exciting career prospects.

Professional Certifications Integration

Our Bachelor of Computer Science program is designed to seamlessly integrate professional certifications directly into the curriculum. By completing our program, you not only earn a valuable degree but are also exposed to industry-recognized certifications that employers highly value.

Hands-On Learning From day one, students engage in hands-on projects and real-world applications. Practical experience is integrated into every aspect of our program to prepare you for the challenges of the tech workforce.

Innovation Hub Development

Join a community that fosters creativity and innovation. Our dedicated innovation hub provides a collaborative space for students to work on cutting-edge projects, participate in hackathons, and bring their ideas to life.

Customizable Specializations

Tailor your degree to match your interests and career goals. Choose from a range of specializations, including data science, cybersecurity, software engineering, game development, information systems, and more.

Integration of Professional Certification Modules

into the programme structure such as Cisco Certified Network Associate (CCNA), AWS Cloud Practitioner (Foundational) & AWS Cloud Architecture (Associate), EC-Council Certified Ethical Hacker (CEH), Huawei Certified ICT Associate - Artificial Intelligence (HCIA-AI), Google Data Analytics Professional Certificate & etc



AN AWARD-WINNING UNIVERSITY WITH A GLOBAL OUTLOOK

Create your success story here!

Multimedia University (MMU) is a leading university in Malaysia and we are also listed in global rankings namely QS World University Rankings 2025 and Times Higher Education (THE) World University Rankings 2025. At MMU, our diversity is what makes us unique where you will study alongside with approximately 1,600 international students from over 70 countries.

Not only that, you will also experience the best and latest technologies from our collaborations with major ICT players such as ZTE, Huawei, Nokia, Intel, Microsoft, Cisco, Motorola and others.

Listed among the **Top Malaysian Private Universities in THE World University Rankings 2025**

Awarded **Self-Accreditation Status**, 2017 by Malaysian Qualification Agency

Ranked among the **Top Malaysian Private Universities in QS Asia University Rankings 2025**

Awarded the **5-Star Rating in the SETARA** by Ministry of Higher Education (MOHE)

Awarded **CXP Best Customer Experience Awards 2021, 2022, 2023 & 2024**

Awarded **Platinum Award** under the Education and Learning at **Putra Brand Awards 2023**

MMU's IT graduates are the most preferred by Malaysian firms- Frost& Sullivan Asia Pacific (MDEC's Malaysian Digital Talent Study 2017 Final Findings)

Awarded **Premier Digital Tech Institution (PDTI) Status** since 2017 by Ministry of Higher Education (MoHE) and Malaysia Digital Economy Corporation (MDEC)

Employer's Preferred University awarded by the **Talentbank** for three consecutive years from 2022, 2023 & 2024 (6 star in Communication and Broadcasting)

Awarded **Best Institution Award** at the Anugerah Keusahawanan KPT 2023

In this constantly evolving digital world, Information and Communication Technology is more important than ever. As ICT continues to transform the way people communicate, learn, work and play, the career prospects for IT graduates are both diverse and rewarding. Whether it's Artificial Intelligence, Data Science, Security Technology or Software Engineering, a degree from MMU will definitely hold you in good stead for the future.

RESEARCH-LED INDUSTRY-DRIVEN UNIVERSITY

Due to its unique niche as a research-led industry-driven university (RIU), MMU currently has the privilege of serving as one of the nation's leading talent incubators. The university takes immense pride in nurturing and growing students in the digital talent pipeline into competent and responsible members of the workforce, who collectively support both TM's and the nation's growth areas.

The 10 growth areas are Fixed Mobile Convergence (FMC)/ Mobile Content Play, New Convergence growth, SME Digital Ecosystem, Cyber-Security, Smart Services Cloud, Submarine Cables, Content Delivery Network (CDN) dan Data Centre.

Well-rounded Education

Be empowered with the fundamentals of your field of study that also incorporate entrepreneurial skills and expertise which are relevant to your respective industries and job markets.

Industry on Campus

Be connected and gain benefit from our state-of the-art labs established by our industry collaboration with ZTE, HUAWEI, Microsoft, Intel and many more.

Ready for Industry

Be enthused with Start-up Schemes from the Entrepreneurship Development Centre (EDC) and nurture your entrepreneurship mindset.

We offer programmes which are tailored to the industry's needs.

We produce graduates who are setting new standards in Malaysia's industries. Among our successful alumni are Mohd Nizam Abd Razak (the creator of BoBoiBoy, who has boosted the animation industry in Malaysia), Muhammad Usamah Zaid Yasin (Founder & Executive Director of Wau Animation that produces Ejen Ali), Tan Aik Keong (Director of Agmo Studio, a multi-award winning mobile app development company), Ko Chuan Zhen (CEO and co-founder of Plus Xnergy, a multi-award winning clean energy company in Malaysia) and many more.

PREPARING GRADUATES TO BE INDUSTRY READY AND VERSATILE

Gaining Industrial Experience Via I-CADET

The i-Cadet Programme is an initiative of MMU's Industry-University Partnership Programme, which aims to groom students into industry-ready graduates from the moment they began their degree programmes.

Through this initiative, MMU students would be groomed into industry-ready graduates tailored for their industries of choice. The programme will match students with suitable companies, and then, via a series of meetings and projects, would provide them with the actual working environment within their chosen company.

Developing Well Balanced Graduates Through PERMATA DUNIA PERSONA

MMU is deeply involved with the proper development and realization of human capital potential, as this would enable the university to satisfy the needs of the industries for capable manpower.

Our goal is to produce well-balanced graduates of good character that possess desirable qualities, such as having empathy, sensitivity, creativity, readiness, and resilience, as well as having sufficient technical competence. Such graduates from MMU are referred to as our Permata Dunia, and we are confident that such personages would become capable future leaders for their nation as well as their communities.

We contend that MMU is the best place for student development as we continually strive to bring out the best in each student; we imbue in them with deep knowledge of their respective fields of expertise via lectures, co-curricular activities, development initiatives, and lifestyle choices. MMU is fully committed to making every student's time in the university the best time of their lives.

Expanding Horizon With BYOC

Build Your Own Curriculum (BYOC) is a concept to enable students to imbue additional value into their graduation qualifications so that, upon completion of their studies, they would have better chances of having a career path that is not just financially rewarding, but also fulfilling.

The key to BYOC is allowing students to build curriculum in a guided and yet flexible way. Students may stack up courses based on the free elective slots they have, or by choosing a collective minor package offered by the faculties.

Fostering Future Entrepreneurs through eCadet

Our university is dedicated to nurturing dynamic and resilient student entrepreneurs, empowering them to become founders of high-value startups. Through the eCadet initiative, students will receive early exposure and invaluable insights into the realities of the business world and its ecosystem.

They will have the opportunity to cultivate professional networks, receive expert guidance, and enhance their startup skills by connecting with startups, companies, agencies, and accelerators.



A VIBRANT AND CONDUCTIVE CAMPUS LIFE

- Convenient and comfortable accommodation – on-campus and off-campus
- Intelligent and high-tech labs
- Digital libraries
- Set studio and post-production suite
- Over 100 clubs and societies
- Extensive infrastructure – campus-wide Wi-Fi, health clinics, mosques, 24-hour security, food & beverage outlets and more
- Comprehensive Sports Centre – track & field, indoor sports arena, gym as well as an olympic-sized swimming pool



PERMATA DUNIA TAKES ON THE WORLD

"Information Technology (IT) shapes the digital world for Infineon's success. IT delivers state-of-the-art digital services and continuously increases the efficiency of the business processes."

Mr. Tang Chee Chiang

Director in Information Technology, Infineon Technologies

Alumnus FIST Class of 2000

"I will forever cherish MMU's tightly-knit academic community, which has been there for me during the ups and the downs. I am extremely grateful for all my lecturers who have gone out of their way to teach and foster an exceptionally supportive space. MMU's strong research environment, coupled with passionate professors, is an excellent starting point for a budding computer scientist."

Sidharth Nagappan

*Data Engineer at MoneyLion
Bachelor of Computer Science (Hons.) (Data Science).*



Programmes Offered at FACULTY OF COMPUTING AND INFORMATICS

Cyberjaya Campus

Located within Cyberjaya and built on a 200-acre plot of land, MMU Cyberjaya is equipped with various intelligent features such as multimedia learning facilities, intelligent building systems, a digital library, and an integrated campus management system designed to nurture innovative information technology and computer science graduates.

FOUNDATION IN COMPUTING

(R3/0610/3/0007) 12/27 (A8670)

In an ever-changing, technologically-dependent world, our one-year Foundation in Computing programme aims to produce students who are well-equipped with computer skills as well as mathematical and problem solving skills. The Foundation in Computing programme is delivered through engaging lectures and laboratory work which serve to build knowledge and help develop practical skills. After completion of the foundation programme, you can opt for a degree programme from either the Faculty of Computing and Informatics (FCI) or Faculty of Information Science and Technology (FIST).

PROGRAMME STRUCTURE

Trimester 1	Trimester 2	Trimester 3
<ul style="list-style-type: none">• Introduction to Business Management• Introduction to Computing Technologies• Communicative English• Mathematics I• Problem Solving and Program Design	<ul style="list-style-type: none">• Critical Thinking• Introduction to Digital Systems• Essential English• Multimedia Fundamentals• Mathematics II• Principles of Physics	<ul style="list-style-type: none">• Academic English• Mathematics III• Mini IT Project

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

DIPLOMA IN INFORMATION TECHNOLOGY

(R3/0611/4/0121) 12/27 (MQA/FA15736)

The programme provides students with computing knowledge in planning, implementation, configuration and maintenance of an organisation's computing infrastructure. Students will be exposed to various programming languages and web technologies with which they would be able to configure, integrate and deploy systems as well as provide technical support within an organisation.

The curriculum covers areas such as programming, database, software design, operating systems, data communication & networking, as well as mathematics. Apart from the technical subjects, students will also be exposed to soft skills such as writing and presentation skills to help enhance their interaction and communication and prepare them for real-life working environment.

After completion of the diploma programme, you can opt for a related degree programme from either FCI or FIST.

PROGRAMME STRUCTURE

Year 1	Year 2
<ul style="list-style-type: none">• Computer Concepts & Applications• Program Design• Database Systems• Computer Architecture & Organizations• University Learning Skills• English• Sustainable Society• U1• Mathematical Techniques 1• Mathematical Techniques 2• System Analysis & Design• Object Oriented Programming• Character Building• Elective 1• Elective 2	<ul style="list-style-type: none">• Data Communications & Networking• Internet & Web Publishing• Data Structures & Algorithms• Operating Systems• Discrete Structures• Introduction to Probability & Statistics• Business Communication in the Digital Age• Industrial Training• Final Year Project• U2/U3• U4• Elective 3

ELECTIVE SUBJECTS

• E-Commerce • Multimedia Applications • Management Information Systems • Mobile Application Development
• Introduction to Cloud Computing

UNIVERSITY SUBJECTS

- | | |
|-----------|--|
| U1 - | 1. LMPU2192 Falsafah dan Isu Semasa (Philosophy and Current Issues) (for local student)
2. LMPU2132 Bahasa Melayu Komunikasi 1 (For international student) |
| U2 / U3 - | 1. LMPU3212 Bahasa Kebangsaan A (For students without credit in BM at SPM Level)
Any other courses in the U2 or U3 category below (For students who obtained credit in BM at SPM Level):
LMPU2222 Basic Academic Writing
LMPU2212 Grooming and Professional Etiquette
LMPU2322 Family and Society in Malaysia
2. For International Students, choose one course in the U2/U3 category below:
LMPU2222 Basic Academic Writing
LMPU2212 Grooming and Professional Etiquette
LMPU2322 Family and Society in Malaysia |
| U4 - | LMPU2402 Personal Social Responsibility |

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

BACHELOR OF COMPUTER SCIENCE (HONS.)

(R3/0613/6/0080) 02/30 (MQA/FA16430)

This three-year programme equips students with fundamental computing knowledge and the latest technology. In year 1, all students learn common subjects before specialising in one of the following areas – Software Engineering, Game Development, Data Science or Cybersecurity - in the second year. Each designed specialisation prepares students with specific skills. Students will also complete a final year project and undergo industrial training to acquire practical industry experience.

Career Prospects: Researcher, Programmer, Software Development, Project Manager, System Analyst, Database Administrator, IS/SE Consultant, Game Programmer, Game Designer, Data Analyst, Data Scientist, Data Engineer, Cyber Risk Analyst, Security Penetration Tester, Incident Responder, Digital Forensic Specialist, Security Architect, Security Engineer, Software Tester.

PROGRAMME STRUCTURE

Year 1	Year 2	Year 3
<ul style="list-style-type: none">CalculusProgramming FundamentalsDiscrete Structures & ProbabilityProfessional DevelopmentComputational MethodsObject Oriented Programming & Data StructuresComputer Architecture & OrganisationDatabase FundamentalsResearch Methodology in Computer ScienceIntegrity and LeadershipU4Character BuildingSustainable Society	<ul style="list-style-type: none">Software Engineering FundamentalsOperating SystemsComputer NetworksObject Oriented Analysis & DesignAlgorithm Design & AnalysisIndustrial TrainingU2 <p>Specialisation: Software Engineering</p> <ul style="list-style-type: none">Software Requirements EngineeringSoftware Design <p>Specialisation: Game Development</p> <ul style="list-style-type: none">Computer Graphics FundamentalsGame Design Fundamentals <p>Specialisation: Data Science</p> <ul style="list-style-type: none">Data Science FundamentalsStatistical Data Analysis <p>Specialisation: Cybersecurity</p> <ul style="list-style-type: none">Cybersecurity FundamentalsNetwork Security	<ul style="list-style-type: none">Final Year Project IFinal Year Project IIBYOC Elective 1BYOC Elective 2BYOC Elective 3BYOC Elective 4U1U1Fundamentals of Digital Competence for Programmers <p>Specialisation: Software Engineering</p> <ul style="list-style-type: none">Software Reliability & Quality AssuranceSoftware Verification & ValidationSpecialisation Elective 1Specialisation Elective 2 <p>Specialisation: Game Development</p> <ul style="list-style-type: none">Game Algorithms3D Game ProgrammingSpecialisation Elective 1Specialisation Elective 2 <p>Specialisation: Data Science</p> <ul style="list-style-type: none">Data MiningData VisualisationSpecialisation Elective 1Specialisation Elective 2 <p>Specialisation: Cybersecurity</p> <ul style="list-style-type: none">Cryptography and Data SecurityEthical Hacking and Penetration TestingSpecialisation Elective 1Specialisation Elective 2

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

Specialisations:

- Software Engineering:** Focuses on designing and developing software systems with innovative methodologies and sophisticated tools. Students are exposed to various techniques of analysing user requirements and specifications, as well as the design, implementation and verification of software systems.
- Game Development:** Integrates fundamental concepts of software engineering with both technical and creative aspects of game design and development. Students are exposed to various types of game production - from 2D to 3D, and from virtual to augmented reality game projects.
- Data Science:** Drawing upon the technical foundation of computer science, this specialization focuses on designing and developing solutions to extract valuable insights from data. Students are exposed with fundamental theories in data science as well as hands-on experience in building practical solutions.
- Cybersecurity:** Built on the technical foundation of computer science, the specialization focuses on the array of sophisticated techniques and innovative approaches used to protect data and information systems. Students are exposed to both offensive and defensive security methodologies such as ethical hacking, digital forensics and network security, as well as policies and ethical issues of cybersecurity.

SPECIALISATION ELECTIVE SUBJECTS

Two (2) subjects should be taken from the following based on specialisation:

Software Engineering

- Theory of Computation
- Programming Language Translation
- Introduction to Formal Methods
- Software Evolution & Maintenance

Game Development

- Game Production
- Game Physics

Data Science

- Machine Learning
- Visual Information Processing
- Social Media Computing

Cybersecurity

- Digital and Computer Forensics
- Database and Cloud Security
- Blockchain and Smart Contracts

BYOC ELECTIVE SUBJECTS

Four (4) subjects should be taken from the following:

- Consumer Trends
- Creativity and Innovation
- Becoming A Leader
- Corporate Training
- Professional Image and Etiquette
- Corporate Communication
- Corporate Strategy
- Design Thinking for Strategic Communication
- Social Media Strategies
- Film Appreciation
- Basic Filmmaking

- Suspenseful Filmmaking
- Fundamental of Wireless Communications
- Communications Networks
- Radio Network Planning Towards 5G
- Internet & Mobile Application
- Media Anthropology
- Media Law
- Project Management
- Motion Capture
- Information Visualization
- Visual & Corporate Identity

- Accounting for Decision Making
- Management
- Personal Finance
- Fundamentals of Marketing
- Digital Transformation Strategy
- Digital Transformation Technologies
- Ergonomics and Human Factor
- Machine Vision
- IoT Design and Interfacing
- Radio Network Planning Towards 5G
- Digital Business
- Business Information Systems

- Data Analytics for Businesses
- Cyber Security
- Understanding Management
- Fundamentals of Marketing
- Financial Management
- Data Analytics for Businesses
- Business Risk Management
- Consumer Law
- Labour Law
- Law and Economics
- Environmental Law
- Law of Banking

UNIVERSITY SUBJECTS

- U1 – Penghayatan Etika dan Peradaban (Local) or BM Komunikasi II (International)
- U1 – Falsafah dan Isu Semasa (Local & International)
- U2 – Bahasa Kebangsaan A or Foreign Language Beginners
- U4 – Co-Curriculum

BACHELOR OF INFORMATION TECHNOLOGY (HONS)
(INFORMATION SYSTEMS)

(R3/0611/6/0033) 06/29 (MQA/FA16431)

In this information-driven 21st century, computerised information systems play key roles to the success of organisations. Hence, there is an increasing demand for information systems graduates that are capable to design, develop and implement effective digital solutions to meet the needs for information and decision support of organisations.

This three-year programme prepares students with a strong foundation in applications development of information systems as well as current and emerging technologies related to information systems. The knowledge and skills are essential not only in using information systems effectively, but also to contribute significantly in planning, designing, implementing and maintaining information systems solutions for critical business problems. Graduates of this programme will take the leading roles in shaping our information-driven future.

Career Prospects: Application Developer, Database Administrator, Business Analyst, IT Consultant, Information Systems Manager.

PROGRAMME STRUCTURE

Table with 3 columns: Year 1, Year 2, Year 3. It lists various subjects for each year, including core subjects like Discrete Mathematics, Software Engineering, and System Administration, as well as elective subjects in areas like Consumer Trends, Suspenseful Filmmaking, and Accounting.

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

Programmes Offered at
FACULTY OF INFORMATION
SCIENCE AND TECHNOLOGY
Melaka Campus

Since 1997, the Faculty has been a trendsetter in ICT education and research, with a rigorous academic approach designed to produce innovative graduates who are well equipped to enact positive changes in society.

FOUNDATION IN SCIENCE AND TECHNOLOGY

(R3/0011/3/0205) 02/27 (A7858)

Modern lifestyle has progressed rapidly with the evolution of current technology. Technological solutions derived from Information Technology to retrieve information and solve problems or tasks in our daily routines. Therefore, our Foundation in Science and Technology programme aims to equip students with essential knowledge and skills for them to pursue their respective degree programmes successfully.

Classes and laboratories are equipped with hardware, software and tools for student to experience an engaging teaching and learning environment and nurturing their knowledge in technical and soft skills.

After completion of Foundation in Science and Technology programme, students are able to further their Bachelor Degree Programmes in either Information Technology, Computer Science or Science from Faculty of Information Science and Technology (FIST) or Bachelor of Technology/ Engineering programmes of Faculty of Engineering & Technology (FET) in Melaka campus, as well as other Bachelor degree programmes in Faculty of Computing and Informatics (FCI) or Faculty of Artificial Intelligence & Engineering (FAIE) in Cyberjaya campus.

PROGRAMME STRUCTURE

Table with 3 columns: Trimester 1, Trimester 2, Trimester 3. It lists subjects for each trimester, including Communicative English, Essential English, Calculus, Academic English, and various specialisation electives in physics, chemistry, and business.

(R3/0611/6/0054) 08/29 (MQA/FA16171)

In addition, knowledge of AI in networking is included in the curriculum to prepare graduates for applying AI technologies within the networking field. Ultimately, we expect our Data Communications and Networking graduates to apply their expertise in high-demand industries such as data centers, cloud systems, and AI-driven networking.

PROGRAMME STRUCTURE

Year 1	Year 2	Year 3	
<ul style="list-style-type: none">• Computer Programming• Database Systems• Operating Systems• System Analysis and Design• Computer Architecture and Organisation• Data Communications and Networking• Ethics and Professional Conducts• Discrete Mathematics and Probability• Web Techniques and Application• U2• U3• U4	<ul style="list-style-type: none">• Computer Networks• System Administration and Maintenance• Data Structures and Algorithms• Human Computer Interaction• System Integration and Architecture• Computer Security• Artificial Intelligence Fundamentals• Routing and Switching• Internet of Things (IoT) Fundamental• Network Security and Management• Fundamentals of Digital Competence for Programmers• U1• BYOC Elective 1• BYOC Elective 2• BYOC Elective 3	<ul style="list-style-type: none">• Enterprise Resource Planning• Cloud Computing• Data Analytics Fundamentals• Mobile and Wireless Communications• Management of Information Security• High-Speed Network• TCP/IP Programming• Cloud Architecture• Industrial Training• Final Year Project 1• Final Year Project 2	
UNIVERSITY SUBJECTS	<p>U1 U1 - Falsafah dan Isu Semasa (Philosophy and Current Issues)</p> <p>U1: Local: Penghayatan Etika dan Peradaban (Appreciation of Ethics and Civilizations)</p> <p>International: Bahasa Melayu Komunikasi 2</p>	<p>U2 Local: Students without credit in BM at SPM Level i.Bahasa Kebangsaan A. If the student has taken this course before, he/she must take any other courses in the U2 category** Students who obtained credit in BM at SPM Level Any other courses in the U2 category***</p> <p>International: Any other courses in the U2 category***</p> <p><i>*** Should the student choose to take foreign language, he/she must choose one which he/ she has no formal education in.</i></p>	<p>U3 - Integrity and Leadership U4 - Choose one U4 from the list offered</p>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

(R4/0611/6/0019) 12/30 (MQA/FA15339)

Career Prospects: SAP Specialist, Data Scientist, Computer Scientist, IT Auditor, Knowledge Engineer, Business Intelligence Consultant, IT Business Analyst and Web Analyst

Year 1	Year 2	Year 3								
<ul style="list-style-type: none"> • Computer Programming • Database Systems • Operating Systems • System Analysis and Design • Computer Architecture and Organisation • Data Communications and Networking • Ethics and Professional Conducts • Discrete Mathematics and Probability • Web Techniques and Application • U2 • U3 • U4 	<ul style="list-style-type: none"> • Computer Networks • System Administration and Maintenance • Data Structures and Algorithms • Human Computer Interaction • System Integration and Architecture • Computer Security • Artificial Intelligence Fundamentals • Business Statistical Analysis • Internet of Things (IoT) Fundamental • Business Intelligence • Fundamentals of Digital Competence for Programmers • U1 • BYOC Elective 1 • BYOC Elective 2 • BYOC Elective 3 	<ul style="list-style-type: none"> • Enterprise Resource Planning • Cloud Computing • Data Analytics Fundamentals • Data Storytelling • Management of Information Security • Internet Marketing • Project Management for Business Analysts • Data Mining and Machine Learning • Industrial Training • Final Year Project 1 • Final Year Project 2 								
<table border="1"> <thead> <tr> <th>UNIVERSITY SUBJECTS</th> <th>U1</th> <th>U2:</th> <th>U3 - Integrity and Leadership</th> </tr> </thead> <tbody> <tr> <td></td> <td> U1 - Falsafah dan Isu Semasa (Philosophy and Current Issues) U1: Local: Penghayatan Etika dan Peradaban (Appreciation of Ethics and Civilizations) International: Bahasa Melayu Komunikasi 2 </td> <td> Local: Students without credit in BM at SPM Level i.Bahasa Kebangsaan A. If the student has taken this course before, he/she must take any other courses in the U2 category** Students who obtained credit in BM at SPM Level Any other courses in the U2 category*** International: Any other courses in the U2 category*** <i>*** Should the student choose to take foreign language, he/she must choose one which he/she has no formal education in.</i> </td> <td> U4 - Choose one U4 from the list offered </td> </tr> </tbody> </table>			UNIVERSITY SUBJECTS	U1	U2:	U3 - Integrity and Leadership		U1 - Falsafah dan Isu Semasa (Philosophy and Current Issues) U1: Local: Penghayatan Etika dan Peradaban (Appreciation of Ethics and Civilizations) International: Bahasa Melayu Komunikasi 2	Local: Students without credit in BM at SPM Level i.Bahasa Kebangsaan A. If the student has taken this course before, he/she must take any other courses in the U2 category** Students who obtained credit in BM at SPM Level Any other courses in the U2 category*** International: Any other courses in the U2 category*** <i>*** Should the student choose to take foreign language, he/she must choose one which he/she has no formal education in.</i>	U4 - Choose one U4 from the list offered
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Note: The above programme structure serves as a guide. Courses may differ according to intakes.



BACHELOR OF COMPUTER SCIENCE (HONOURS)
(ARTIFICIAL INTELLIGENCE)

(R3/0613/6/0070) 08/28 (MQA/FA16170)

As computer systems increase their complexity and sophistication, the demand for intelligent advanced applications also increases in proportion. It is now a common practice and expectation to incorporate intelligent capabilities in the design of any computer application, from web-based intelligent search engines to stand-alone intelligent applications.

Introduced in 2005 and accredited since 2007 as the Bachelor of IT in AI, now known as Computer Science in AI, this program embarked on a pioneering journey that has spanned nearly 20 years. This program has been at the forefront of equipping students with the necessary knowledge and skills required to be successful in building the much-needed intelligent computer systems. Based on the solid foundations of Computer Science and Information Technology, the three-year degree programme covers the traditional grounds of artificial intelligence, such as fundamentals in artificial intelligence, programming language concepts, and computational intelligence. It then extends to advanced and deeper understanding of AI techniques in application, such as Computer Vision, Natural Language Processing, Data Analytics, Generative AI etc.

Career Prospects: Intelligent Software Developer, AI Developer, Knowledge Engineer, Machine Learning Engineer, AI Consultant, Data Scientist, Computer Vision Engineer etc.

PROGRAMME STRUCTURE

Table with 3 columns: Year 1, Year 2, Year 3. Each column lists subjects for that year, including Computer Architecture and Organisation, Human Computer Interaction, Software Engineering Fundamentals, etc.

Table with 4 columns: UNIVERSITY SUBJECTS, U1 - Falsafah dan Isu Semasa (Philosophy and Current Issues), U2: Local, Students without credit in BM at SPM Level i.Bahasa Kebangsaan A. If the student has taken this course before, he/she must take any other courses in the U2 category**, Students who obtained credit in BM at SPM Level Any other courses in the U2 category***, U3 - Integrity and Leadership, U4 - Choose one U4 from the list offered.

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

BACHELOR OF INFORMATION TECHNOLOGY (HONOURS)
(SECURITY TECHNOLOGY)

(R3/0611/6/0050) 08/29 (MQA/FA16169)

Security Technology is designed to develop knowledge and skills in security management and technologies necessary for employment in areas such as government and corporate security, strategic facilities security, private sector and retail security, financial institutions and major security organisations.

The course emphasises on the functions and management of security technology in the protection of assets and is supported by appropriate studies in cyber law and ethics. Graduates of this course will be equipped for a career in the security industry.

Career Prospects : Security Auditor, Security Penetration Tester, Computer Forensic Investigator, Software Engineer, Systems Analyst, and Programmer.

PROGRAMME STRUCTURE

Table with 3 columns: Year 1, Year 2, Year 3. Each column lists subjects for that year, including Web Techniques and Application, Human Computer Interaction, System Integration and Architecture, etc.

Table with 4 columns: UNIVERSITY SUBJECTS, U1 - Falsafah dan Isu Semasa (Philosophy and Current Issues), U2: Local, Students without credit in BM at SPM Level i.Bahasa Kebangsaan A. If the student has taken this course before, he/she must take any other courses in the U2 category**, Students who obtained credit in BM at SPM Level Any other courses in the U2 category***, U3 - Integrity and Leadership, U4 - Choose one U4 from the list offered.

Note: The above programme structure serves as a guide. Courses may differ according to intakes.



DIPLOMA IN INFORMATION TECHNOLOGY

(R4/0611/4/0119) 07/31 (MQA/FA15338)

This programme equips students with relevant ICT knowledge and skills to meet the technological needs of an organisation. Through the 2-year programme, students will acquire essential technical skills and hands-on experience in systems analysis and design, programming, web design and development, database design, operating systems, data communications, and networking. Students will be equipped with professional certificates such as AWS Cloud Practitioner and Cisco to enhance their capabilities in line with current IT trends.

Students will also learn about professional ethics and develop communication, presentation, and teamwork skills critical for success in today's workforce. Both the technical and soft skills will prepare them for their degree studies, as well as for future employment.

Upon completion of the diploma programme, students can opt for a related degree programme offered by the Faculty of Information Science and Technology (FIST) or Faculty of Computing and Informatics (FCI).

Career Prospects: Programmer, E-Commerce Developer, Internet/ Software Application Developer, IT Technical Support Officer, Database Manager, Information Systems Manager, System Analyst, etc.

PROGRAMME STRUCTURE

Year 1	Year 2
<ul style="list-style-type: none">Program DesignCalculus & AlgebraData Communications & NetworkingIntroduction to Computer SecurityOperating SystemsSystems Analysis & DesignComputer ArchitectureEthics & CybertechnologyMathematical & Statistical TechniquesDiscrete Structures & ProbabilityDatabase SystemsCharacter BuildingSustainable SocietyU1	<ul style="list-style-type: none">Data Structure & AlgorithmsFundamentals of NetworkingSystem Administration and MaintenanceInternet & Web PublishingIntroduction to Information Assurance & SecurityEnterprise Resource PlanningSystem Integration ArchitectureHuman Machine InteractionIntroduction to Cloud ComputingIndustrial TrainingFinal Year ProjectU2/U3U4
UNIVERSITY SUBJECTS	<div><div>U1 Falsafah dan Isu Semasa (Philosophy and Current Issues)- Local OR Bahasa Melayu Komunikasi 1 - International</div><div>U2/U3 Local: Students without credit in BM at SPM Level Bahasa Kebangsaan A Students who obtained credit in BM at SPM Level Only Any other courses in the U2 or U3 category** OR International: Choose one course in the U2/U3 category** ** Should the student choose to take foreign language, he/she must choose one which he/ she has no formal education in.</div><div>U4 Choose one U4 from the list offered</div></div>

Note: The above programme structure serves as a guide. Courses may differ according to intakes.

Campus	Programme	Minimum Entry Requirements
CYBERJAYA MELAKA	Diploma ▪ Diploma in Information Technology	<div>I. Pass SPM/O-Level or its equivalent with a minimum of Grade C in at least three (3) subjects (inclusive of Mathematics and a Pass in English); OR</div> <div>II. Pass UEC with a minimum of Grade B in at least three (3) subjects (inclusive of Mathematics and a Pass in English); OR</div> <div>III. Pass STPM or its equivalent with a minimum of Grade C (GP 2.00) in one (1) subject AND a credit in Mathematics at SPM Level or its equivalent; OR</div> <div>IV. Pass STAM with a minimum grade of Maqbul (Pass) AND a Credit in Mathematics at SPM Level or its equivalent; OR</div> <div>V. Possess SKM Level 3 in a related field. (Candidates without Mathematics can be admitted subject to a thorough rigorous assessment to determine their competencies in Mathematics that are equivalent to SPM level); OR</div> <div>VI. A Certificate (Level 3, MQF) in a related field with at least a CGPA of 2.00; OR</div> <div>VII. Other relevant & equivalent qualifications recognised by the Malaysian Government. (Candidates can be admitted if their admission qualification contains Mathematics subject(s) equivalent to Mathematics at the SPM level. Those without a pass in Mathematics at SPM level or equivalent can be admitted but required to take and pass the reinforcement Mathematics subject. The reinforcement Mathematics subject must be offered in the first semester or before enrolment with unconditional offer); OR</div> <div>VIII. Possess an APEL.A certificate from MQA for admission into Diploma programmes.</div> <div>Note : Candidates with a pass in Mathematics at the SPM level (or Mathematics equivalent to SPM) may be admitted if their admission qualification contains Mathematics subject(s) equivalent to Mathematics at the SPM level.</div> <div>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 first semester or before enrolment with unconditional offer.</div> <div>Candidate with a credit in a Computing-related subject(s) at SPM level or its equivalent may be given preferential consideration.</div>
CYBERJAYA MELAKA	Foundation ▪ Foundation in Computing ▪ Foundation in Science and Technology	<div>I. Pass SPM/O-Level or its equivalent with a minimum of Grade C in at least five (5) subjects inclusive of English and Mathematics; OR</div> <div>II. Pass UEC with a minimum of Grade B in at least three (3) subjects inclusive of Mathematics and English.</div>

Campus	Programme	Minimum Entry Requirements
CYBERJAYA	Bachelor Bachelor of Computer Science (Honours) Specialization in <ul style="list-style-type: none">• Software Engineering• Game Development• Data Science• Cybersecurity	I. Pass in Foundation or Matriculation studies from a recognised institution with a minimum CGPA of 2.00, OR II. Pass STPM (Arts Stream) or its equivalent with a minimum of Grade C (CGPA 2.00) in any TWO (2) subjects or any equivalent qualification; OR III. Pass A-Level with a minimum of Grade D (CGPA 2.00) in any TWO (2) subjects; OR IV. Pass STAM with a minimum grade of Jayyid in any TWO (2) subjects; OR V. Any Diploma in Science and Technology (Level 4, MQF) with a minimum CGPA of 2.75. Candidates with a CGPA below 2.75 but more than 2.50 can be admitted subject to a thorough rigorous assessment; AND a credit in: • Additional Mathematics at the SPM level or its equivalent; OR • Mathematics and any one of the Science, Technology or Engineering subjects at SPM level or its equivalent. Candidates need to take and pass the reinforcement Mathematics equivalent to Additional Mathematics at the SPM level. The subject must be offered in the first semester or before enrolment with unconditional offer. OR VI. Pass STPM (Science Stream) or its equivalent with a minimum Grade of C (GP 2.00) in Mathematics subject and ONE (1) Science / ICT subject; OR VII. Pass A-Level with a minimum of Grade D in Mathematics and ONE (1) Science/ ICT subject; OR VIII. Pass UEC with a minimum of Grade B in at least FIVE (5) subjects (inclusive of Mathematics, English and one Science / ICT subject); OR IX. Diploma in Computing (Level 4, MQF) or its equivalent with a minimum CGPA of 2.50. Candidates with a CGPA below 2.50 but more than 2.00 may be admitted subject to a thorough rigorous assessment; OR X. Pass DKM /DLKM/DVM in Computing fields with a minimum CGPA of 2.50 subjected to HEP Senate / Academic Board's approval*; OR XI. Other relevant & equivalent qualifications recognised by the Malaysian Government. (Candidates can be admitted if their admission qualification contains Mathematics subject(s) equivalent to Additional Mathematics at the SPM level. If it is not equivalent, reinforcement Mathematics subject that equivalent to the SPM level must be offered in first semester or before enrolment with unconditional offer); OR XII. Possess an APEL.A certificate from MQA for admission into Bachelor programmes. For more information, please visit https://www.mmu.edu.my/apel-a/ <i>Note:</i> <i>*DKM /DLKM/DVM candidates may be required to undergo Bridging Programme as an additional requirement.</i> <i>Students are required to pass the reinforcement Mathematics before being allowed to take related core courses. The candidate can sit for any subjects that did not indicate Mathematics as a pre-requisite.</i> <i>Reinforcement Mathematics can contribute to the overall graduating credit.</i> <i>Students from Matriculation / Foundation or its equivalent can be exempted from taking the Reinforcement Mathematics, provided that the Mathematics offered at that programme level is equivalent / more than the Additional Mathematics offered at an SPM level.</i>
MELAKA	• Bachelor of Computer Science (Honours) (Artificial Intelligence)	
CYBERJAYA	Bachelor Bachelor of Information Technology (Honours) Information System	I. Pass Foundation / Matriculation studies with a minimum CGPA of 2.00 from a recognised institution and a Credit in Mathematics at SPM Level or its equivalent*; OR II. Pass STPM or its equivalent with a minimum Grade C (GP 2.00) in any TWO (2) subjects AND a Credit in Mathematics at SPM Level or its equivalent*; OR III. Pass A-Level with a minimum of Grade D in any TWO (2) subjects AND a Credit in Mathematics at SPM Level or its equivalent*; OR IV. Pass UEC with a minimum of Grade B in at least five (5) subjects (inclusive of Mathematics* and English); OR V. Pass STAM with a minimum grade of Jayyid in any TWO (2) subjects AND a Credit in Mathematics at SPM Level or its equivalent*; OR VI. Diploma in Computing (Level 4, MQF) or equivalent with a minimum CGPA of 2.50. Candidates with CGPA below 2.50 but more than 2.00 may be admitted subject to a thorough rigorous assessment; OR VII. Diploma (Level 4, MQF) in Non-Computing with a minimum CGPA of 2.75 AND a Credit in Mathematics at SPM Level or its equivalent*. Candidates with a CGPA below 2.75 but more than 2.50 can be admitted subject to a thorough rigorous assessment; OR VIII. Pass DKM/DLKM/DVM in Computing fields with a minimum CGPA of 2.50 subjected to HEP Senate / Academic Board's approval**; OR IX. Other relevant & equivalent qualifications recognised by the Malaysian Government. (Candidates can be admitted if their admission qualification contains Mathematics subject(s) equivalent to Mathematics at the SPM level. If it is not equivalent, the reinforcement Mathematics subject equivalent to the SPM level must be offered in the first semester or before enrolment with unconditional offer); OR X. Possess an APEL.A certificate from MQA for admission into Bachelor programmes. For more information, please visit https://www.mmu.edu.my/apel-a/ <i>Note:</i> <i>* Candidates with a pass in Mathematics at SPM level 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 unconditional offer.</i> <i>**DKM /DLKM/DVM candidates may be required to undergo Bridging Programme as an additional requirement.</i> <i>Students are required to pass the reinforcement Mathematics before being allowed to take related core courses. The candidate can sit for any subjects that did not indicate Mathematics as a prerequisite.</i> <i>Reinforcement Mathematics can contribute to the overall graduating credit.</i> <i>Students from Matriculation / Foundation or its equivalent can be exempted from taking reinforcement Mathematics, provided that the Mathematics offered at that programme level is equivalent / more than the Mathematics offered at an SPM level.</i>
MELAKA	• Bachelor of Information Technology (Honours) (Data Communications and Networking) • Bachelor of Information Technology (Honours) (Security Technology) • Bachelor of Information Technology (Honours) (Business Intelligence and Analytics)	



MULTIMEDIA UNIVERSITY

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