



**AMC**  
UNIVERSITY COLLEGE

**POSTGRADUATE**  
PROGRAMME

# MASTER IN INFORMATION TECHNOLOGY

PROGRAMME PROSPECTUS

N/0611/7/0073 | MQA/PA18942



[www.amc.edu.my](http://www.amc.edu.my)

## Background

AMC University College, established in 1985, stands as a reputable Private Higher Learning Institution registered under Malaysia's Ministry of Higher Education. Owned entirely by Advanced Business Systems Consultants Sdn Bhd, the university college offers a comprehensive range of academic programmes spanning from foundation studies to master's degrees, tailored to meet diverse educational aspirations.

AMC University College offers globally recognized professional certifications, including MCSA, CCNA, CompTIA, Adobe, Autodesk, and other Microsoft credentials, alongside academic qualifications. These certifications enhance students' professional and technical expertise, preparing them for success in competitive global markets.

The university has established partnerships with leading local and international institutions, providing pathways for graduates to advance their studies. Notable collaborators include Macquarie University, University of Wollongong, Leeds Beckett University, and UCSI University.

AMC University College takes pride in its commitment to educational excellence, demonstrated by a consistent record of student success and achievements across various fields. With cutting-edge facilities, industry-relevant programs, and a dedication to nurturing talent, AMC University College continues to be a leader in delivering quality education that empowers students to excel globally.



# Why Pursue MIT?

The Master in Information Technology (MIT) at AMC University College goes beyond technical knowledge. It equips students with advanced digital skills, strategic thinking, and leadership capabilities needed to thrive in today's technology-driven world. The programme prepares graduates to manage complex IT challenges, drive digital transformation, and create innovative solutions for organizations.

## Digital Innovation & Transformation

Learn how to leverage emerging technologies to improve business processes, enhance efficiency, and support organizational growth in the digital era.

## Advanced Technology & Problem Solving

Develop the ability to analyze complex technical issues, design effective IT solutions, and apply cutting-edge technologies to real-world challenges.



## Why MIT?

## IT Leadership & Project Management

Build the skills needed to lead technology teams, manage IT projects, allocate resources effectively, and ensure successful project delivery.

## Cybersecurity & Risk Management

Strengthen your understanding of information security, data protection, risk assessment, and strategies to safeguard digital assets in an evolving threat landscape.

## Data Analytics & Strategic Decision-Making

Learn to transform data into actionable insights, enabling informed decisions, business intelligence, and technology-driven strategies.

These competencies will prepare you to become a future-ready IT professional, opening opportunities in roles such as IT Manager, Systems Analyst, Technology Consultant, Project Manager, Cybersecurity Specialist, Data Analyst, and Chief Information Officer (CIO). With a strong foundation in technology, leadership, innovation, and strategic thinking, you will be well-positioned to lead digital transformation and drive organizational success in the modern economy.





## AMC UC MIT In a Nut Shell

### Shaping Digital Leaders for the Future.

The AMC UC Master in Information Technology (MIT) programme is designed to develop highly skilled IT professionals with advanced technical expertise, strategic thinking, and leadership capabilities. The programme combines current industry practices with emerging technologies, enabling graduates to drive digital transformation, manage complex IT projects, and create innovative technology solutions that support organizational growth and competitiveness.

## Why Choose AMC UC MIT?

Learn from experienced academics and industry professionals while gaining industry-relevant knowledge in emerging technologies, cybersecurity, data analytics, and IT management. The programme prepares graduates to excel in today's fast-changing digital landscape.

## Learning Objectives

The programme aims to:

- Equip students with advanced knowledge and practical skills in information technology, digital systems, and emerging technologies.
- Develop critical thinking and problem-solving abilities to address complex technological and business challenges.
- Strengthen competencies in cybersecurity, data analytics, and information systems management.
- Foster leadership, communication, and project management skills for leading digital transformation initiatives.
- Enhance the ability to design, evaluate, and implement innovative technology solutions that improve organizational performance.
- Promote ethical, responsible, and strategic use of technology in a rapidly evolving digital environment.
- Encourage continuous learning and professional growth to remain competitive in the global technology landscape.



## Programme Overview

AMC UC MIT offers a comprehensive and industry-focused curriculum designed to develop future-ready IT professionals with advanced technical expertise, strategic thinking, and leadership capabilities. The programme equips students with the knowledge and practical skills required to address today's evolving technological challenges and drive digital innovation across industries.

This intensive one-year-three-month MIT programme at AMC University College provides a structured and practical learning experience, covering key areas such as information systems, cybersecurity, data analytics, digital transformation, and technology management. Delivered through a combination of online and face-to-face classes during non-working hours, the programme is designed to accommodate working professionals. Students apply their knowledge to real-world IT and business challenges through an industry-relevant project report, enhancing their practical and problem-solving capabilities.

- Programme Structure : Coursework
- Mode of Study : Full time and part time
- Full Time Duration : 15 months
- Teaching delivery : Conventional (Physical and online classes)
- Assessment : Assignments, presentations, and projects
- Graduate Credit : 40 credit
- Teaching and Learning Methods : Lectures, Field Research, Supervision of Thesis, Problem-Based Learning, Research Seminar/Workshops, Colloquium and Interactive Learning.

### MQA Provisional Accreditation

#### Master in Information Technology

- MQA Accreditation No.: MQA/PA18942
- KPT Approval No.: N/0611/7/0073



## Programme Curriculum

### 10 Modules + 1 Project Report

#### Programme Module:

- Cloud Computing
- Big Data and Data Analytics
- Cybersecurity
- Distributed Systems and Edge Computing
- Technopreneurship
- Research Methodology
- Advanced Software Engineering (*electives*)
- Blockchain and FinTech (*electives*)
- AI and Machine Learning (*electives*)
- Advanced Database Systems (*electives*)
- IT Project Management
- Quantum Computing

#### Project Report:

- To complete a project report (9 credit hours)
- Select an area of project with a topic to be approved by a committee
- Report work will be guided and supported by an appointed Supervisor
- The total words count for the Project Report is at least 15,000

### Module Specifications

Subject: **Cloud Computing**

Code: MIT7013 | Credit Hour: 3

Topic:

- Introduction to Cloud Computing
- Cloud Service Models
- Cloud Deployment Models
- Cloud Infrastructure and Virtualization
- Designing and Developing Cloud-Native Applications
- Cloud Security and Governance
- Emerging Trends and Future Directions in Cloud Computing

Subject: **Big Data & Data Analytics**

Code: MIT7023 | Credit Hour: 3

Topic:

- Introduction to Big Data
- Data Sources and Data Lifecycle
- Big Data Technologies and Architectures
- Data Preparation and Processing Techniques
- Analytical Techniques and Tools
- Data Visualization and Communication
- Ethics, Privacy, and Governance in Data Analytics

## Module Specifications

Subject: **Cybersecurity**

Code: MIT7033 | Credit Hour: 3

Topic:

- Foundations of Cybersecurity
- Threats, Vulnerabilities, and Attacks
- Cryptography and Secure Communication
- Network and System Security
- Identity and Access Management (IAM)
- Risk Management and Security Governance
- Legal, Ethical, and Incident Management
- Emerging Trends and Future Directions

Subject: **Distributed Systems & Edge Computing**

Code: MIT7043 | Credit Hour: 3

Topic:

- Introduction to Distributed Systems
- Communication in Distributed Systems
- Synchronization and Consistency
- Fault Tolerance and Replication
- Edge Computing Fundamentals
- Designing Distributed and Edge Applications
- Ethics, Sustainability, and Real-World Use

Subject: **Technopreneurship**

Code: MIT7053 | Credit Hour: 3

Topic:

- Introduction to Technopreneurship
- Innovation and Opportunity Recognition
- Business Models and Value Proposition
- Market Validation and MVP Development
- Funding and Startup Ecosystems
- Legal, IP, and Ethics in Technopreneurship
- Team Building, Leadership, and Communication

Subject: **Research Methodology**

Code: MIT7064 | Credit Hour: 4

Topic:

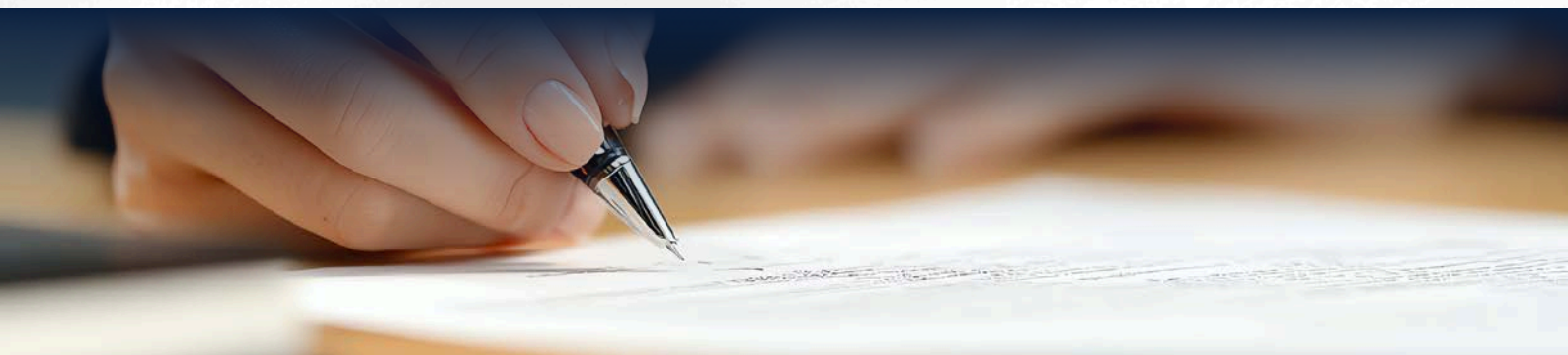
- Nature of Business and Management Research
- Theories and Conceptual Frameworks
- Research Proposal
- Literature Review
- Research Design
- Constraints and Research Ethics
- Sampling Approaches
- Secondary Data
- Primary Data
- Data collection
- Preparation and Analysis of Data
- Preparation and Analysis of Data (continue)
- Case studies
- Writing Project Report

Subject: **Advanced Software Engineering**

Code: MIT7073 | Credit Hour: 3

Topic:

- Evolution of Software Engineering
- Software Architecture and Design Patterns
- Agile, DevOps, and CI/CD
- Model-Driven and Component-Based Design
- Software Testing and Quality Assurance
- Software Maintenance and Refactoring
- Ethics, Team Collaboration, and Leadership



## Module Specifications

Subject: **Blockchain & FinTech**

Code: MIT7083 | Credit Hour: 3

Topic:

- Overview of Blockchain and FinTech
- FinTech Ecosystem and Innovation
- Blockchain Architecture and Mechanisms
- Smart Contracts and Decentralized Applications (DApps)
- Digital Payment Systems and Digital Currencies
- Decentralized Finance (DeFi)
- Legal, Regulatory, and Compliance

Subject: **AI & Machine Learning**

Code: MIT7083 | Credit Hour: 3

Topic:

- Introduction to Artificial Intelligence and Machine Learning
- Data Preprocessing and Feature Engineering
- Supervised Learning
- Unsupervised Learning
- Neural Networks and Deep Learning
- Advanced Topics in Deep Learning
- Reinforcement Learning

Subject: **Advanced Database Systems**

Code: MIT7133 | Credit Hour: 3

Topic:

- Advanced Database Concepts and Architectures
- Transaction Management and Concurrency Control
- Distributed and Parallel Database Systems
- Data Warehousing and OLAP
- NoSQL and NewSQL Databases
- Advanced Topics in Data Security and Integrity
- Research Trends and Future Directions

Subject: **IT Project Management**

Code: MIT7103 | Credit Hour: 3

Topic:

- Introduction to IT Project Management
- Project Scope, Time, and Cost Management
- Risk, Quality, and Procurement Management
- Agile Project Management and Scrum
- Project Communication and Stakeholder Management
- Project Leadership, Governance, and Ethics
- Project Monitoring, Evaluation, and Closure

Subject: **Quantum Computing**

Code: MIT7113 | Credit Hour: 3

Topic:

- Overview of Blockchain and FinTech
- FinTech Ecosystem and Innovation
- Blockchain Architecture and Mechanisms
- Smart Contracts and Decentralized Applications (DApps)
- Digital Payment Systems and Digital Currencies
- Decentralized Finance (DeFi)
- Legal, Regulatory, and Compliance

Subject: **Project Report**

Code: MIT7129 | Credit Hour: 9

Topic:

- Introduction
- Literature Review
- Methodology / Approach
- System / Project Development
- Results and Analysis
- Discussion
- Conclusion and Recommendations
- References (APA style)
- Appendices (code snippets, screenshots, questionnaires, diagrams – if any)

## Career Prospects

Graduates of the Master in Information Technology (MIT) programme are equipped with advanced technical expertise, strategic thinking, and leadership skills to thrive in today's digital economy. With strong foundations in information systems, cybersecurity, data analytics, and technology management, MIT graduates are well-positioned to lead digital transformation initiatives across various industries, including corporate organizations, technology firms, government agencies, financial institutions, and multinational companies. Below are some potential career paths:

1. **IT Manager:** Oversees an organization's IT infrastructure, technology strategy, and digital operations to ensure business efficiency and growth.
2. **Information Systems Manager:** Manages information systems and technology resources to support organizational objectives and decision-making.
3. **Technology Consultant:** Advises organizations on technology adoption, digital transformation strategies, and IT solutions to improve performance.
4. **Cybersecurity Manager:** Develops and implements security strategies to protect organizational systems, networks, and data from cyber threats.
5. **Data Analytics Manager:** Leads data-driven initiatives by transforming business data into actionable insights for strategic decision-making.
6. **IT Project Manager:** Plans, coordinates, and delivers technology projects while managing budgets, timelines, and stakeholder expectations.
7. **Systems Analyst:** Evaluates business requirements and designs technology solutions that enhance operational effectiveness.
8. **Digital Transformation Specialist:** Drives innovation and organizational change through the implementation of emerging technologies and digital solutions.
9. **Cloud Solutions Architect:** Designs and manages cloud-based infrastructure and services to improve scalability, security, and performance.
10. **Chief Information Officer (CIO):** Provides strategic leadership in aligning technology initiatives with organizational goals and long-term business success.



## Admission Requirement

- i. A Bachelor's degree (Level 6 Malaysian Qualifications Framework, MQF) in Computing or related fields with a minimum CGPA of 2.50, as accepted by the HEP Senate; OR
- ii. A Bachelor's degree (Level 6, MQF) in Computing or related fields or equivalent with a minimum CGPA of 2.00 can be accepted subject to a minimum of FIVE (5) years of working experience in the related fields and rigorous internal assessment; OR
- iii. Candidates without a qualification in the related fields or relevant working experience must undergo appropriate prerequisite courses as determined by the HEP and meet a minimum CGPA of 2.00 with minimum of FIVE (5) years of working experience in the related fields, and rigorous internal assessment; OR
- iv. Other qualifications equivalent to a Bachelor's degree (Level 6, MQF) in the field of Computing or related fields recognised by the Government of Malaysia must undergo appropriate prerequisite courses as determined by the HEP.

### English Competency Requirement (International Student) :

- Achieve a minimum score of 6.0 in the International English Language Testing System (IELTS) or equivalent.



## Fee Structure

Full Time Programme:

Fee Type	Malaysian Student	International Student
Tuition	RM24,000.00	RM24,000.00 + RM1,440.00 (6% SST)
Registration	RM500.00	RM1,500.00
Assessment	RM4,125.00	RM4,125.00
Resources/Facilities	RM1,300.00	RM1,300.00
<b>Total Fee</b>	<b>RM29,925.00</b>	<b>RM32,365.00</b>



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AMC University College

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-  088 235 218
-  [www.amc.edu.my](http://www.amc.edu.my)
-  [enquiries@amccollege.edu.my](mailto:enquiries@amccollege.edu.my)
-  Lot 43 - 44, 1st Floor,  
Likas Square Commercial Centre,  
Jalan Istiadat, Likas, 88400 Kota Kinabalu, Sabah.

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