

Foundation in Business

Semester 1

- Fundamentals of Financial Accounting
- Principles of Economics
- Introduction to Business Mathematics
- Fundamentals of Business Management
- Fundamentals of Information Technology
- English for Academic Purposes 1
- Study and Critical Thinking Skills
- Co-Curriculum 1

Semester 2

- Introduction to Management Accounting
- Basic Commercial Law
- Introduction to Business Statistics
- Fundamentals of Finance
- Introduction to Entrepreneurship and Marketing
- English for Academic Purposes 2
- Islamic Studies / Moral Studies
- Co-Curriculum 2

Bachelor in Accounting (Hons)

Semester 1

- Introduction to Financial Accounting
 - Management Accounting 1
 - Mathematics for Business
 - Principles of Microeconomics
 - Writing for Business Purposes
 - Isu-isu Kontemporari Muslim di Malaysia / Culture and Lifestyle in Malaysia
 - Foreign Languages 1
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Semester 2

- Financial Accounting and Reporting I
 - Principles of Microeconomics
 - Management
 - Marketing
 - Statistics for Business
 - Commercial Law
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Semester 3

- Financial Accounting and Reporting II
 - Taxation I
 - Management Accounting II
 - Communication for Business Purpose
 - Introduction to Information Technology
 - Hubungan Etnik / Pengajian Malaysia 3
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Semester 4

- Financial Accounting and Reporting 3
 - Audit 1
 - Principles of Finance
 - Human Capital Management
 - Technopreneurship
 - Foreign Languages 2
 - Tamadun Islam & Tamadun Asia (TITAS) / Bahasa Melayu Komunikasi 2
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Semester 5

- Financial Accounting and Reporting 4
- Taxation 2
- Accounting Information System 1

- Corporate Law
 - Corporate Ethics and Governance
 - Innovation Management
 - Co-Curriculum
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Semester 6

- Accounting Theory and Practices
 - Audit 2
 - Accounting Information System 2
 - Organisational Studies
 - Global Entrepreneurship
 - Elective**
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Semester 7

Industrial Training (24 weeks)

Semester 8

- Management Accounting 3
 - Integrated Case Study
 - Public Sector Accounting
 - Strategic Policy Management
 - Business Research
 - Elective**
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Elective

- Issues in Contemporary Accounting
- Islamic Accounting Practices
- Forensic Accounting and Fraud Examination
- Investment Analysis
- Specialised Accounting
- Taxation 3
- Advanced Managerial Finance

Bachelor in Tourism Planning and Development (Honours)

Semester 1

- Writing for Academic Purposes
 - Principles of Economics
 - Principles of Management
 - Principles of Marketing
 - Business Mathematics
 - Introduction to Tourism Planning
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Semester 2 (Short Semester)

- Introduction to environmental management
 - Tamadun Islam dan Tamadun Asia (TITAS)/ Bahasa Melayu Komunikasi 2**
 - Isu-isu Kontemporari Muslim Di Malaysia / Culture and Lifestyle in Malaysia**
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Semester 3

- Foreign Languages 1
 - Principles of Facilities Management
 - Business Communication
 - Business of Tourism
 - Statistics for Tourism
 - Human Resource Management
 - Hubungan Etnik/Pengajian Malaysia 3
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Semester 4

- Foreign Languages 2
 - Co-Curriculum 2
 - Tourism Development
 - Eco Tourism Management
 - Tourism Governance
 - Community-Based Tourism
 - Entrepreneurship in Tourism
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Semester 5 (Short Semester)

- Planning Laws and Regulations
 - E-Tourism
 - Customer Relation in Tourism
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Semester 6

- Arabic 1
 - Innovation Management
 - Tourism Research Methods
 - Development Concept and Application in Tourism
 - Travel and Tour Management
 - Air Fares and Ticketing
 - Elective 1
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Semester 7

- Arabic 2
 - Event Management
 - Tourism Fieldwork
 - Tourism Project Management
 - Resort and Theme Parks Planning
 - Elective 2
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Semester 8 (Short Semester)

- Technopreneurship
 - Sustainable Tourism Development
 - Seminar
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Semester 9

Internship / Apprenticeship

Elective subject

Cluster A

- E-Marketing
- Small Business Management

Cluster B

- Supply Chain Management
- Sales Management

Bachelor of Business Administration (Hons) in Islamic Finance

Semester 1

- Writing for Academic Purposes
 - Principles of Accounting
 - Foreign Languages 1
 - Principles of Economics
 - Business Mathematics
 - Principles of Marketing
 - Principles of Management
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Semester 2

- Tamadun Islam & Tamadun Asia (TITAS) / Bahasa Melayu Komunikasi 2**
 - Isu-isu Kontemporari Muslim di Malaysia/Culture and Lifestyle in Malaysia*
 - Technopreneurship
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Semester 3

- Islamic Economics
 - Foreign Languages 2
 - Business Communication
 - Managerial Finance
 - Business Ethics and Corporate Governance
 - Usul Fiqh and Qawaid Fiqhiyyah
 - Business Law
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Semester 4

- Islamic Law of Contracts
 - Elective 1
 - Management Information System
 - Islamic Finance
 - Islamic Banking Operations
 - Co-Curriculum
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Semester 5

- Hubungan Etnik / Pengajian Malaysia 3
 - Fiqh Muamalat
 - Innovation Management
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Semester 6

- Strategic Management
 - Elective 2
 - Islamic Financial Products and Services
 - Risk Management in Islamic Financial Institutions
 - Islamic Wealth Planning and Management
 - Business Statistics
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Semester 7

- Business Research Methods
 - Elective 3
 - Corporate Finance
 - Islamic Capital Market
 - Takaful & Retakaful Operations & Products
 - Islamic Accounting Practices
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Semester 8

- Shariah Audit
 - Elective 4
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Semester 9

Internship

Electives

- Human Resource Management
- Waqaf
- Investment Management
- Financial Modelling
- International Finance
- Management Accounting
- Islamic International Trade Financing
- Introduction to Taxation
- Customer Relationship Management
- Islamic Financial Plan Construction & Professional Responsibilities

Bachelor of Business Administration (Hons) in Management and Entrepreneurship

Semester 1

- Writing for Academic Purposes
 - Principles of Economics
 - Principles of Management
 - Financial Accounting
 - Business Mathematics
 - Business Communication
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Semester 2

- Creative Problem Solving
 - Isu-isu Kontemporari Muslim di Malaysia/Culture and Lifestyle in Malaysia*
 - Foreign Languages 1
 - Co-Curriculum
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Semester 3

- Entrepreneurship
 - Marketing Management
 - Finance I
 - Organisational Behaviour
 - Tamadun Islam & Tamadun Asia (TITAS) / Bahasa Melayu Komunikasi 2**
 - Business Statistics
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Semester 4

- Business Ethics and Corporate Governance
 - Management Information System
 - Human Resource Management
 - Business Law
 - Finance 2
 - Technopreneurship
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Semester 5

- Hubungan Etnik / Pengajian Malaysia 3**
 - Foreign Languages 2
 - Innovation Management
 - Elective 1
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Semester 6

- Social Entrepreneurship
 - Business Plans
 - E-Marketing
 - Business Research Methods
 - Supply Chain Management
 - Elective 2
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Semester 7

- Strategic Management
 - Leadership
 - Franchise Business Management
 - International Entrepreneurship
 - Management Accounting
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Semester 8

- Elective 3
 - Elective 4
 - Seminar
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Semester 9

- Internship
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Electives

- Aligning Business and information technology
- Company Law
- Economics of Innovation and Entrepreneurship
- Enabling Technologies for Competitive Success
- Entrepreneurship and Digital Commerce
- Sales Management
- Small Business Management
- Technological Innovation in Entrepreneurial Ventures

Bachelor of Business Administration (Hons) International Business

Semester 1

- Writing for Academic Purposes
 - Principles of Marketing
 - Principles of Management
 - Financial Management
 - Principles of Economics
 - Business Communication
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Semester 2

- Isu-Isu Kontemporari Muslim Di Malaysia / Culture And Lifestyle In Malaysia
 - Community Service 2
 - Technopreneurship
 - Foreign Languages 1
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Semester 3

- International Management
 - Business Law
 - Business Research Methods
 - Organisational Behaviour
 - Hubungan Etnik / Pengajian Malaysia 3
 - Business Statistics
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Semester 4

- Business Ethics and Corporate Governance
 - Management Information System
 - International Marketing
 - Management Accounting
 - International Human Resource Management
 - Cross-cultural Management(Elective 1)
 - Foreign Languages 1
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Semester 5

- International Finance
 - Pricing Strategy & Tactics
 - Managerial Economics
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Semester 6

- International Advertising & Promotions
 - Innovation Management
 - International Business Environment and Institutions
 - Tamadun Islam & Tamadun Asia (Titas) / Bahasa Melayu Komunikasi 2**
 - International Economics & Trade
 - International Political Economics (Elective 2)
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Semester 7

- International Business Strategy
 - Supply Chain Management
 - Money, Banking and Capital Markets
 - E-Marketing (Elective 3)
 - Innovation and New Product Development
 - International Entrepreneurship (Elective 4)
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Semester 8

- Managing Business Risk (Elective 5)
 - International Contemporary Issues (Elective 6)
 - Economic Reporting (Elective 7)
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Semester 9

Internship

Electives

- (Elective 1) Cross-cultural Management
- (Elective 2) International Political Economics
- (Elective 3) E-Marketing
- (Elective 4) International Entrepreneurship
- (Elective 5) Managing Business Risk
- (Elective 6) International Contemporary Issues
- (Elective 7) Economic Reporting

Bachelor of Business Administration in Marketing (Honours)

Semester 1

- Writing for Academic Purposes
- Principles of Economics
- Principles of Management
- Financial Accounting
- Business Mathematics
- Business Communication

Semester 2

- Isu-isu Kontemporari Muslim di Malaysia/Culture and Lifestyle in Malaysia*
- Business Ethics and Corporate Governance
- Foreign Languages 1
- Co-Curriculum

Semester 3

- Retail Management
- Finance I
- Principles of Marketing
- Organisational Behaviour
- Tamadun Islam & Tamadun Asia (TITAS) / Bahasa Melayu Komunikasi 2**
- Business Statistics

Semester 4

- Advertising&Promotion Strategy
- Consumer Behavior
- Management Information System
- Business Law
- Technopreneurship
- Elective 1

Semester 5

- Hubungan Etnik / Pengajian Malaysia 3**
- E-Marketing
- Innovation Management

- Foreign Languages 2

Semester 6

- Retail Merchandising Management
- Customer Relationship Management
- Marketing Strategy
- Marketing Management
- Elective 2
- Elective 3

Semester 7

- Sales Management
- Pricing Strategy & Tactics
- Marketing Channels Management
- Marketing Research
- Personal selling
- Elective 4

Semester 8

- Seminar
- Elective 5
- Elective 6

Semester 9

Internship

Electives

- Human Resource Management
- Small Business Management
- Strategic Management
- Creative Problem-Solving
- Operation Management
- Supply Chain Management

Bachelor of Science (Hons) in Analytical Economics

Semester 1

- Principles of Microeconomics
 - Principles of Macroeconomics
 - Economic Statistics 1
 - Money, Banking and Financial Institutions
 - Isu-isu Kontemporari Muslim di Malaysia / Culture and Lifestyle in Malaysia 2
 - Writing for Academic Purposes
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Semester 2

- Foreign Language 1
 - Co-curriculum
 - Business Ethics & Corporate Governance
 - Mathematical Economics 1
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Semester 3

- Intermediate Microeconomics
 - Intermediate Macroeconomics
 - Economic Statistics 2
 - Mathematical Economics 2
 - Foreign Language 2
 - Technopreneurship
 - Elective 1
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Semester 4

- Econometrics 1
 - Economic Modelling 1
 - International Economics
 - Economics of Innovation and Entrepreneurship
 - Capital Market and Financial Institutions
 - Innovation Management
 - Malaysian Economy
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Semester 5

- International Political Economics

- Tamadun Islam dan Tamadun Asia (TITAS) / Bahasa Melayu Komunikasi 2
 - Hubungan Etnik / Pengajian Malaysia 3
 - Elective 2
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Semester 6

- Financial Economics 1
 - Economic Modelling 2
 - Econometrics 2
 - Forecasting
 - Data Mining
 - Economics Reporting and Communication
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Semester 7

- Financial Economics 2
 - Economics Research Method
 - Seminar on Economic Issue
 - The Evolution of Economic Thought
 - Economic Analysis
 - Elective 3
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Semester 8

- Islamic Economics
 - Public Speaking
 - Business Law
 - Elective 4
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Semester 9

- Industrial Training
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Electives

- Labor Economics
- Islamic Economic Thought
- Islamic Financial System
- Issues in Intellectual Property Rights

- Economic Development
- Public Finance

Master of Business Administration (Entrepreneurship)

Semester 1

- Economic Analysis for Business Decisions
- Financial Accounting
- Strategic Management
- Entrepreneurial Finance
- Research Methodology

Semester 2

- Corporate Law
- Strategic Marketing
- Operation Management
- Management and Organizational Behavior
- Business Project 1

Semester 3

- Negotiations and Ethics
- Business Project 2
- Elective 1 *
- Elective 2 *

***Electives Courses – Group 1 : General**

(choose two courses only)

- Data, Models and Decisions
- International Business Management
- Managerial Accounting
- Case Methodology
- Management Consulting

Electives Courses – Group 2 : Human Resource Management

(choose two courses only)

- Performance Management
- Assessment, Recruitment and Selection

Electives Courses – Group 3 : Islamic Banking & Finance

(choose two courses only)

- Islamic Banking Operations
- Islamic Wealth Management

Electives Courses – Group 4 : Master of Business Administration (Entrepreneurship)

(choose two courses only)

- Entrepreneurial Decision Making
- New Business Venture
- Managerial Accounting

Master of Business Administration

Semester 1

- Economic Analysis for Business Decisions
- Financial Accounting
- Strategic Management
- Corporate Finance
- Research Methodology

Semester 2

- Corporate Law
- Strategic Marketing
- Operations Management
- Management and Organizational Behavior
- Business Project 1

Semester 3

- Negotiations and Ethics
- Business Project 2
- Elective 1 *
- Elective 2 *

Electives Courses – Group 1 : General

(choose two courses only)

- Data, Models and Decisions
- International Business Management
- Managerial Accounting
- Case Methodology
- Management Consulting
- Rural Governance & Community Empowerment
- Sustainable Development

Electives Courses – Group 2 : Human Resource Management

(choose two courses only)

- Performance Management
- Assessment, Recruitment and Selection
- Compensation and Benefits
- Training and Development
- Management of Industrial Relation
- Managing Occupational Safety and Health
- Labor Economic

Electives Courses – Group 3 : Islamic Banking and Finance

(choose two courses only)

- Islamic Banking Operations
- Islamic Wealth Management
- Islamic Financial System
- Islamic Investment Management
- Law on Islamic Banking and Finance

Master of Management

Areas of Research

- Entrepreneurship – SME Management, Innovation Management, Technology Management, Global Entrepreneurship
 - Marketing – Retail Management, Supply Chain Management, Consumer Behaviour, International Marketing, Strategic Marketing, Branding, Customer Relationship Management
 - Finance – Islamic Banking and Finance, Investment, Corporate Finance, International Finance, Behavioral Finance, Monetary Economics, Portfolio Management, Bank Management
 - Management – Human Resource Management, Industrial Relations, Strategic Management, Organizational Behaviour, Leadership, Organizational Development, Corporate Responsibility, Sustainable Development Management
 - Tourism and Hospitality – Tourism Planning and Development, Ecotourism, Tourism Management, Hospitality Management
 - Urban Management – Environmental Management, Solid Waste Management, Disaster Management, Transport Management, Housing Management
 - Managerial Economics – Pricing and Cost Analysis, Managing Fiscal and Monetary Policy, Economics of Islamic and Conventional Micro-financing
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Philosophy in Islamic Finance

Semester 1

- Research Methodology for Social Science
- Innovation Technology & Entrepreneurship

Semester 2

- Applied Econometric
- Issues in Islamic Finance

Semester 3-6

- Thesis

Doctor of Philosophy in Accounting

Semester 1

- Research Methodology for Social Science
- Innovation Technology and Entrepreneurship

Semester 2

- Issues in Accounting

Semester 3 – 6

- Thesis

Doctor of Philosophy (Management)

Areas of Research

- Entrepreneurship – SME Management, Innovation Management, Technology Management, Global Entrepreneurship
 - Marketing – Retail Management, Supply Chain Management, Consumer Behaviour, International Marketing, Strategic Marketing, Branding, Customer Relationship Management
 - Finance – Islamic Banking and Finance, Investment, Corporate Finance, International Finance, Behavioral Finance, Monetary Economics, Portfolio Management, Bank Management
 - Management – Human Resource Management, Industrial Relations, Strategic Management, Organizational Behaviour, Leadership, Organizational Development, Corporate Responsibility, Sustainable Development Management
 - Tourism and Hospitality – Tourism Planning and Development, Ecotourism, Tourism Management, Hospitality Management
 - Urban Management – Environmental Management, Solid Waste Management, Disaster Management, Transport Management, Housing Management
 - Managerial Economics – Pricing and Cost Analysis, Managing Fiscal and Monetary Policy, Economics of Islamic and Conventional Micro-financing
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Compulsory Module

- Research Methodology and Social Science
- Innovation Technology and Entrepreneurship

Master in Computer Science

Semester 1

- Advanced Computer Science
- Algorithm Complexity Analysis
- Innovation Technology and Entrepreneurship

Semester 2

- Research Methodology

Major in Software Engineering

- Software Requirement and Design
- Software Quality and Testing

Major in System Networking

- Mobile Computing
- Advanced Networking

Semester 3

- Dissertation

Master in Manufacturing Management

Semester 1

- Competitive Manufacturing
 - Manufacturing information system
 - Design for manufacture and assembly
 - Innovation Management and Technopreneurship
 - Elective 1*
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Semester 2

- Manufacturing Operation Management
 - Total Quality Management
 - Accounting for Decision Making
 - Research Methodology
 - Elective 2*
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Research Project

- Industry Project
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***Elective**

- Supply Chain Management
- Strategic Technology Management
- Safety, Health and Environment
- Railway Operations Planning and Management
- Railway Transport Technology

Master of Business Administration (Entrepreneurship)

Semester 1

- Economic Analysis for Business Decisions
- Financial Accounting
- Strategic Management
- Entrepreneurial Finance
- Research Methodology

Semester 2

- Corporate Law
- Strategic Marketing
- Operation Management
- Management and Organizational Behavior
- Business Project 1

Semester 3

- Negotiations and Ethics
- Business Project 2
- Elective 1 *
- Elective 2 *

***Electives Courses – Group 1 : General**

(choose two courses only)

- Data, Models and Decisions
- International Business Management
- Managerial Accounting
- Case Methodology
- Management Consulting

Electives Courses – Group 2 : Human Resource Management

(choose two courses only)

- Performance Management
- Assessment, Recruitment and Selection

Electives Courses – Group 3 : Islamic Banking & Finance

(choose two courses only)

- Islamic Banking Operations
- Islamic Wealth Management

Electives Courses – Group 4 : Master of Business Administration (Entrepreneurship)

(choose two courses only)

- Entrepreneurial Decision Making
- New Business Venture
- Managerial Accounting

Master of Business Administration

Semester 1

- Economic Analysis for Business Decisions
 - Financial Accounting
 - Strategic Management
 - Corporate Finance
 - Research Methodology
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Semester 2

- Corporate Law
 - Strategic Marketing
 - Operations Management
 - Management and Organizational Behavior
 - Business Project 1
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Semester 3

- Negotiations and Ethics
 - Business Project 2
 - Elective 1 *
 - Elective 2 *
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Electives Courses – Group 1 : General

(choose two courses only)

- Data, Models and Decisions
 - International Business Management
 - Managerial Accounting
 - Case Methodology
 - Management Consulting
 - Rural Governance & Community Empowerment
 - Sustainable Development
-

Electives Courses – Group 2 : Human Resource Management

(choose two courses only)

- Performance Management
- Assessment, Recruitment and Selection
- Compensation and Benefits
- Training and Development
- Management of Industrial Relation
- Managing Occupational Safety and Health
- Labor Economic

Electives Courses – Group 3 : Islamic Banking and Finance

(choose two courses only)

- Islamic Banking Operations
- Islamic Wealth Management
- Islamic Financial System
- Islamic Investment Management
- Law on Islamic Banking and Finance

Master of Engineering Technology (Aerospace)

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Engineering Technology (Chemical Engineering)

Areas of Research

- Bio-Technology
 - Food Technology
 - Polymer Engineering
 - Environmental Engineering
 - Process Engineering
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Engineering Technology (Electrical and Electronics)

Areas of Research

- Microelectronic
 - Telecommunication
 - Electrical Power
 - Control and Robotic
 - Measurement and Instrumentation
 - Power Electronics Drive
 - Intelligent Systems (Image Signal Processing)
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Engineering Technology (Manufacturing)

Areas of Research

- Product Design – CAD/CAM/CAE/CAO Rapid Prototyping, Value Analysis / Value Engineering (VA/VE)
 - Process and Manufacturing System – Artificial Intelligent
 - Production and Operation Management – Logistics and Supply Chain RFID, MRP, MRP II, JIT
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Engineering Technology (Mechanical)

Areas of Research

- Green technology,
- Thermofluids,
- Automotive,
- Fabrication and joining,
- Material science,
- Marine technology

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Engineering Technology in Industrial Automation

Areas of Research

- Robotics
- Industrial Robotics
- Intelligence System
- Sensors
- Instrumentation
- Process Control

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Information Technology

Areas of Research

- E-Commerce
 - Computer Science
 - Computer Information System
 - Software Engineering
 - Computer Networking System
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Management

Areas of Research

- Entrepreneurship – SME Management, Innovation Management, Technology Management, Global Entrepreneurship
 - Marketing – Retail Management, Supply Chain Management, Consumer Behaviour, International Marketing, Strategic Marketing, Branding, Customer Relationship Management
 - Finance – Islamic Banking and Finance, Investment, Corporate Finance, International Finance, Behavioral Finance, Monetary Economics, Portfolio Management, Bank Management
 - Management – Human Resource Management, Industrial Relations, Strategic Management, Organizational Behaviour, Leadership, Organizational Development, Corporate Responsibility, Sustainable Development Management
 - Tourism and Hospitality – Tourism Planning and Development, Ecotourism, Tourism Management, Hospitality Management
 - Urban Management – Environmental Management, Solid Waste Management, Disaster Management, Transport Management, Housing Management
 - Managerial Economics – Pricing and Cost Analysis, Managing Fiscal and Monetary Policy, Economics of Islamic and Conventional Micro-financing
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Medical Science

Areas of Research

- Anatomy
- Biochemistry
- Microbiology
- Parasitology
- Physiology
- Pharmacology
- Public Health

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Public Health

Areas of Research

- Biochemistry
- Microbiology
- Parasitology
- Physiology
- Pharmacology
- Public Health

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Semester 1

- Principles of Biostatistics
- Fundamentals of Epidemiology
- Principles of Family Health
- Health Policy and Health Care Management
- Ethics in Public Health
- Research Methodology
- Research Project

Semester 2

- Occupational Safety and Health
- Principles of Environmental Health
- Principles of Human Nutrition
- Behavioural Sciences and Health Promotion
- Field Attachment
- Research Dissertation
- Epidemiology of Non-Communicable

Master of Quality Engineering and Management

Semester 1

- Quality System, Standard and Specifications
- Industrial Engineering and Lean System
- Advanced Measurement and Inspection Technology

Semester 2

- Advanced Improvement and Economics of Quality
- Research Methodology
- Master Project 1

Semester 3

- Innovation Technology and Entrepreneurship
- Project and Risk Management
- Master Project 2

Master of Science (Pharmacy)

Areas of Research

- Pharmaceutical Technology
- Pharmacy Practice
- Clinical Pharmacy
- Pharmaceutical Analysis
- Pharmacology
- Pharmacognosy
- Pharmaceutical Chemistry

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Master of Science (Water and Hydropower Engineering)

Semester 1 (IHE Delft)

- Module 1: Introduction to Water Science and Engineering
- Module 2: Hydrology and Hydraulics
- Module 3: River Basin Hydraulics, Geotechnics and Remote Sensing
- Module 4: River Morphodynamics
- Module 5: Data Collection, Analysis and Design

Semester 2 (IHE Delft)

- Module 6: River Basin Development and Environmental Impact Assessment
- Module 7: River Structures
- Module 8: Dams and Hydropower
- Module 9: Fieldtrip and Hydropower Potential Assessment
- Module 10: Environmental Flow Assessment

Semester 3 (UniKL)

- Module 11: Hydropower Machines Operations and Maintenance
- Module 12: Hydropower Electrical Systems
- Module 13: Research Methodology (Thesis Proposal)
- Module 14: Field Assignment and Group Work
- Module 15: Project Management and Entrepreneurship

Semester 4 (UniKL)

- Module 16 : Master Thesis

Master of Science in Public Health

Semester 1

- Principles of Biostatistics
- Fundamentals of Epidemiology
- Principles of Family Health
- Health Policy And Health Care Management
- Ethics In Public Health
- Research Methodology Research Project

Semester 2

- Occupational Safety And Health
- Principles of Environmental Health
- Principles of Human Nutrition
- Behavioural Sciences And Health Promotion
- Field Attachment
- Research Dissertation
- SDL on One Selected Public Health Area/ Elective*

*** To select one of the optional courses**

- Non-Communicable Diseases
- Communicable Diseases

Doctor of Philosophy (Aerospace)

Areas of Research

- Aircraft Maintenance
 - Aerospace Engineering
 - Airline Maintenance
 - Aviation Regulations & Quality Assurance
 - Nanotechnology
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Philosophy (Chemical Engineering)

Areas of Research

- Bio-Technology
 - Food Technology
 - Polymer Engineering
 - Environmental Engineering
 - Process Engineering
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Philosophy (Electrical and Electronics Engineering)

Areas of Research

- Microelectronic
 - Telecommunication
 - Electrical Power
 - Control and Robotic
 - Measurement and Instrumentation
 - Power Electronics Drive
 - Intelligent Systems (Image Signal Processing)
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Philosophy (Industrial Automation)

Areas of Research

- Robotics
- Industrial Robotics
- Intelligence System
- Sensors
- Instrumentation
- Process Control

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Philosophy (Information Technology)

Areas of Research

- E-Commerce
 - Computer Science
 - Computer Information System
 - Software Engineering
 - Computer Networking System
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Philosophy (Management)

Areas of Research

- Entrepreneurship – SME Management, Innovation Management, Technology Management, Global Entrepreneurship
 - Marketing – Retail Management, Supply Chain Management, Consumer Behaviour, International Marketing, Strategic Marketing, Branding, Customer Relationship Management
 - Finance – Islamic Banking and Finance, Investment, Corporate Finance, International Finance, Behavioral Finance, Monetary Economics, Portfolio Management, Bank Management
 - Management – Human Resource Management, Industrial Relations, Strategic Management, Organizational Behaviour, Leadership, Organizational Development, Corporate Responsibility, Sustainable Development Management
 - Tourism and Hospitality – Tourism Planning and Development, Ecotourism, Tourism Management, Hospitality Management
 - Urban Management – Environmental Management, Solid Waste Management, Disaster Management, Transport Management, Housing Management
 - Managerial Economics – Pricing and Cost Analysis, Managing Fiscal and Monetary Policy, Economics of Islamic and Conventional Micro-financing
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Compulsory Module

- Research Methodology and Social Science
- Innovation Technology and Entrepreneurship

Doctor of Philosophy (Manufacturing)

Areas of Research

- Product Design – CAD/CAM/CAE/CAO Rapid Prototyping, Value Analysis / Value Engineering (VA/VE)
 - Process and Manufacturing System – Artificial Intelligent
 - Production and Operation Management – Logistics and Supply Chain RFID, MRP, MRP II, JIT
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Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Philosophy (Mechanical)

Areas of Research

- Green technology,
- Thermofluids,
- Automotive,
- Fabrication and joining,
- Material science,
- Marine technology

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Philosophy (Medical Science)

Areas of Research

- Anatomy
- Biochemistry
- Microbiology
- Parasitology
- Physiology
- Pharmacology
- Public Health

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Philosophy (Pharmacy)

Areas of Research

- Pharmaceutical Technology
- Pharmacy Practice
- Clinical Pharmacy
- Pharmaceutical Analysis
- Pharmacology
- Pharmacognosy
- Pharmaceutical Chemistry

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Doctor of Public Health

Areas of Research

- Biochemistry
- Microbiology
- Parasitology
- Physiology
- Pharmacology
- Public Health

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Bachelor in Computing and Business Management with Honours

Semester 1

- Introduction to E-Business
 - Principles of Management
 - Introduction to Computing and Information Systems
 - Fundamental English
 - Business Mathematics
 - Bahasa Kebangsaan A
 - Co-Curriculum I
-

Semester 2

- Principles of Marketing
 - Introduction to Economics
 - Probability and Statistics for IT
 - Principles of Computer Programming
 - Technopreneurship
 - Professional English I
-

Semester 3

- Introduction to Finance
 - Management of IT Resources
 - Computer Networks
 - Introduction to Econometrics
 - Web-Based Software Design
 - Co-Curriculum II
 - Professional English II
-

Semester 4

- Introduction to Accounting
 - Interaction Design
 - Islamic/Moral Studies
 - Internet Programming
 - Database Management Systems
 - Innovation Management
-

Semester 5

- Cyber Law
- Economics of Innovation and Entrepreneurship
- Management Information Systems
- Malaysian Studies

- Research Methodology
 - Mandarin I
 - Elective I
-

Semester 6

- Project Management
 - Supply Chain Management
 - Mandarin II
 - Final Year Project I
 - Elective II
-

Semester 7

- CEM Exhibition
 - Customer Relationship Management
 - Final Year Project II
 - Elective III
-

Semester 8

- Industrial Training

Bachelor of Computer Engineering Technology (Computer Systems) with Honours

Semester 1

- Principles of Computer Programming
 - Introduction to Computing and Information System
 - Engineering Mathematics I
 - Engineering Physics
 - Introduction to Electronics
 - Co-Curriculum I *
 - Fundamental English
-

Semester 2

- Engineering Mathematics II
 - Digital Principles
 - Electromagnetics for Engineers
 - Electric Circuits Analysis
 - C Programming
 - Professional English I
-

Semester 3

- Computer Organisation
 - Discrete Mathematics for IT
 - Microprocessor
 - Signal & System
 - Object-Oriented Programming
 - Technopreneurship
 - Professional English II
-

Semester 4

- Data Communication
 - Intro to Software Engineering
 - Probability & Statistic for IT
 - Microcontroller
 - Tamadun Islam & Tamadun Asia (TITA) (L)
 - Bahasa Melayu Komunikasi 2 (I)
 - Data Structures & Algorithms
-

Semester 5

- Computer Controlled System
- Operating Systems
- Embedded Systems

- Isu-isu Kontemporari Muslim Di Malaysia (L-M)
 - Culture & Lifestyle In Malaysia (L-MN & I)
 - Database Management Systems
 - Innovation Management
 - Mandarin I
-

Semester 6

- Introduction To Artificial Intelligent
 - Hardware Programming Language Compiler
 - Elective BCE 1**
 - Hubungan Ethnic (L)
 - Pengajian Malaysia 3 (I)
 - Research Methodology
 - Final Year Project I
 - Mandarin 2
-

Semester 7

- Elective BCE 2**
 - Elective BCE 3**
 - Elective BCE 4**
 - Final Year Project 2
-

Semester 8

- Industrial Training

Bachelor of Computer Engineering Technology (Networking Systems) with Honours

Semester 1

- Mathematics for Technologies 1 (Mathematics Module)
 - Fundamental English (Language Module)
 - Principles of Computer Programming (Programming module)
 - Introduction to Computing and Information System
 - Data Communications
 - Digital Principles (ET module)
-

Semester 2

- Mathematics for Technologist 2 (Mathematics Module)
 - Professional English 1 (Language Module)
 - Technopreneurship (Business module)
 - Object-Oriented Programming (Programming module)
 - Digital System (ET module)
 - Network Fundamentals (CCNA module)
-

Semester 3

- Engineering Mathematics 1 (Mathematics Module)
 - Professional English 2 (Language Module)
 - Data Structures and Algorithms (Programming module)
 - Microprocessor (ET module)
 - Routing Protocols and Concepts (CCNA module)
 - LAN Switching (CCNA module)
-

Semester 4

- System Tools and Administration (OS module)
 - Wireless Network
 - Database Management Systems
 - WAN Technology (CCNA module)
 - Innovation Management (Business module)
-

Semester 5

- Advanced Routing (CCNP module)
- Multilayer Switching (CCNP module)
- System and Network Programming (OS module)
- Network Security
- Telecommunications
- Mandarin 1 (Language Module)

Semester 6

- Elective BNS 1**
- Networks Troubleshooting (CCNP module)
- Project Management
- Research Methodology
- Mandarin 2

Semester 7

- Elective BNS 2**
- Elective BNS 3**
- Network Management
- Cyber Law
- Final Year Project

Semester 8

- Industrial Training

Bachelor of Information Technology (Hons) in Internet of Things

Semester 1

- Discrete Mathematics for IT
 - C Programming
 - Computer Organization
 - IoT & Society
 - Professional English 1
 - Fundamental English
 - Tamadun Islam & Tamadun Asia (TITAS) (L)
 - Bahasa Melayu Komunikasi 2 (I)
-

Semester 2

- Probability and Statistics for IT
 - Database Management System
 - Network Fundamentals
 - Data Science Essentials
 - Operating System Administration
 - Co-Curriculum
 - Hubungan Etnik
 - Pengajian M'sia 3
-

Semester 3

- Internet Programming
 - Object Oriented Programming
 - Network Operating System
 - IoT Network
 - Project Semester 3
 - Foreign Language 1
 - Isu-isu Kontemporari Muslim
 - Culture and Lifestyle
-

Semester 4

- Machine Learning
 - IoT Project Management
 - IoT Application Security
 - Project Semester 4
 - Professional English 2
 - Foreign Language 2
 - *Elective 1
-

Semester 5

- Technopreneurship
- Final Year Project 1
- Data Analytics
- Cloud Computing
- *Elective 2

Semester 6

- Final Year Project 2
- DevOps Essential
- *Elective 3
- *Elective 4
- Innovation Management

Semester 7

- Industrial Training

Bachelor of Information Technology (Hons.) in Computer System Security

Semester 1

- Discrete Mathematics for IT
 - Principles of Computer Programming
 - Introduction to Computing and Information Systems
 - Fundamental English
 - Malaysian Studies
 - Co-Curriculum I
 - Technopreneurship
-

Semester 2

- Object-Oriented Programming
 - Information Security
 - Computer Organization
 - CCNA I
 - Co-Curriculum II
 - Cyber Law
-

Semester 3

- Data Structure and Algorithm
 - Database Management Systems
 - Advanced Networking
 - Professional English I
 - Innovation Management
 - Moral/Islamic Studies
-

Semester 4

- Operating Systems
 - Professional English II
 - Cryptography
 - System Administration
 - Bahasa Kebangsaan A
 - Elective I
-

Semester 5

- Internet Programming
- Network Security
- Secure Software Development
- Research Methodology
- Elective II

Semester 6

- Operating System Security
- Software and System Vulnerabilities
- Final Project
- Elective III
- Project Management
- Mandarin I

Semester 7

- Advanced Network Security
- Cyber Forensics
- Elective IV
- Final Year Project II
- Mandarin II

Semester 8

- Industrial Training

Bachelor of Information Technology (Hons.) in Software Engineering

Semester 1

- Introduction to Software Engineering
 - Fundamental English
 - Discrete Mathematics for IT
 - Principles of Computer Programming
 - Introduction to Computing and Information Systems
 - Malaysian studies
 - Co-curriculum I
-

Semester 2

- Object-Oriented Programming
 - Probability and Statistics for IT
 - Co-curriculum II
 - Technopreneurship
 - Professional English I
 - Computer Organization
 - Mandarin I
-

Semester 3

- Computer Networks
 - Database Management Systems
 - Data Structures and Algorithms
 - Object-Oriented System Analysis and Design
 - Professional English II
 - Software Requirements Engineering
 - Mandarin II
-

Semester 4

- Operating Systems
 - Interaction Design
 - Visual Programming
 - Software Design
 - Real-Time and Embedded Systems
 - Innovation Management
-

Semester 5

- Internet Programming
- Cyber Law
- Reuse and Component-Based Development

- Islamic/Moral Studies
 - Elective BSE I
-

Semester 6

- Research Methodology
 - Bahasa Kebangsaan A
 - Project Management
 - Elective BSE II
 - Final Year Project I
-

Semester 7

- Final Year Project II
 - Software Configuration Management
 - Software Integration
 - Software Testing
-

Semester 8

- Industrial Training

Bachelor of Multimedia Technology (Hons) in Computer Animation

Semester 1

- Principles of 2D Animation
 - Introduction to Drawing
 - Animation History
 - Principles of Computer Programming
 - Digital Graphic Design
 - Technical Communications
 - Co-Curriculum I
-

Semester 2

- 2D Animation Design
 - Introduction to Design Layout and Basic Perspective
 - Storytelling
 - Digital Photography
 - Professional Communication I
 - Introduction to Computing and Information Systems
 - Mandarin I
-

Semester 3

- Storyboard Design
 - Advanced Figure Design
 - Digital Video Production
 - Acting for Animation
 - Digital Audio Production
 - Professional Communication II
 - Mandarin II
-

Semester 4

- 3D Modelling
 - Character Development and Design
 - Stop Motion Studies
 - Film Principles and Communication
 - Advanced Illustration
 - Malaysian Studies
-

Semester 5

- Props and Model Making
- Film Aesthetics
- 3D Animation

- Digital Visual Effects
 - Technopreneurship
 - Co-Curriculum II
 - Islamic/Moral Studies
-

Semester 6

- 3D Particle and Dynamics
 - Innovation Management
 - Research Methodology
 - Bahasa Kebangsaan A
 - Elective I
 - Final Year Project I
-

Semester 7

- Portfolio Design and Management
 - BCA Exhibition
 - Elective II
 - Final Year Project II
-

Semester 8

- Industrial Training

Bachelor of Multimedia Technology (Hons.) in Interactive Multimedia Design

Semester 1

- Introduction to Multimedia
 - Technopreneurship
 - Professional English 1
 - Tamadun Islam & Tamadun Asia (TITAS)
 - Bahasa Melayu Komunikasi 2
 - Fundamental English
-

Semester 2

- Introduction to Drawing
 - Typography Design
 - Digital Photography
 - Digital Graphic Design
-

Semester 3

- Visual Communication
 - 2D Computer Animation
 - Multimedia Instructional Design
 - Creative Advertising
 - Storyboard Design
-

Semester 4

- Database Management Systems
 - Web Based Authoring
 - Digital Audio and Video Production
 - 3D Computer Animation
 - Multimedia Authoring 1
-

Semester 5

- Internet Programming
- Research Methodology
- Mixed Reality Application
- Game Design
- Elective 1

Semester 6

- IT Project Management
- Multimedia Authoring 2
- Elective 2
- Final Year Project 1

Semester 7

- New Media
- Elective 3
- Final Year Project 2

Semester 8

- Industrial Training

Diploma in Animation

Semester 1

- History of Animation
 - Principles and Timing I
 - Drawing I
 - Character Design I
 - Foundation English
 - Co-Curriculum I
 - Fundamentals of Programming
-

Semester 2

- Principles and Timing II
 - Drawing II
 - Computer Animation I
 - Story Structure
 - Character Design II
 - Communication English I
-

Semester 3

- Layout Design
 - Storyboard Design
 - Computer Animation II
 - Colour and Media
 - Islamic/Moral Studies
 - Mandarin I
 - Communication English II
-

Semester 4

- 3D Design
 - Post Production
 - Animation Project Management
 - Web Design
 - Co-Curriculum II
 - Mandarin II
 - Visual Communication
-

Semester 5

- Portfolio Production
- Introduction to Business Organization
- Introduction to Entrepreneurship

- Bahasa Kebangsaan (A)
- Malaysian Studies
- Final Year Project

Semester 6

- Industrial Training

Diploma in Information Technology

Semester 1

- Principles of Information Technology
 - Fundamentals of Programming
 - Technical Mathematics 1
 - Computer Architecture
 - Foreign Language 1**
 - Pengajian Malaysia 2 (Local)
 - Bahasa Melayu Komunikasi 1 (International)
-

Semester 2

- Technical Mathematics 2
 - Introduction to Entrepreneurship
 - Java Programming
 - Operating System
 - Foreign Language 2**
 - Interpersonal Skills
 - Competency English
-

Semester 3

- Database Systems
 - Introduction to Discrete Mathematics for IT
 - Object-Oriented System Analysis and Design
 - Communication English 1
 - Amalan Islam di Malaysia (L-M)
 - Religious Practices in Malaysia (I & L-NM)
 - Culture & Lifestyle in Malaysia 1
 - Elective 1 ***
-

Semester 4

- PHP Web Programming
 - Data Structure
 - IT Project Management
 - Communication English 2
 - Co-Curriculum*
 - Elective 2 ***
-

Semester 5

- IOT Data Analytic
- Computer Networks

- Final Year Project
- Elective 3 ***

Semester 6

- Industrial Training

Electives

- Interface Design
- ASP.NET Programming
- Mobile Application Development
- Operating System Administration
- Basic Graphic Design

Diploma in Multimedia

Semester 1

- Fundamental of Programming
 - Principles of Information Technology
 - Introduction to Multimedia
 - Computer Related Mathematics & Statistics
 - Competency English
 - Pengajian Malaysia 2 (Local)
 - Bahasa Melayu Komunikasi 1 (International)
-

Semester 2

- Basic Graphic Design
 - Introduction to Multimedia Development
 - Storyboard Concepts
 - Introduction to Multimedia Development
 - Interpersonal Skills
 - Foreign Language 1**
-

Semester 3

- Database Systems
 - Digital Audio and Video
 - Digital Animation
 - Web Design
 - Foreign Language 2**
 - Communication English 1
 - Amalan Islam di Malaysia (L-M)
 - Religious Practices in Malaysia (I & L-NM)
 - Culture & Lifestyle in Malaysia 1
-

Semester 4

- Introduction to Entrepreneurship
 - Multimedia Project Management
 - Interactive Multimedia Authoring
 - 3D Animation
 - Instructional Design
 - Communication English 2
-

Semester 5

- Visual Communication
- PHP Web Programming

- Mobile Application Design and Development
- Co-Curriculum*
- Final Year Project

Semester 6

- Industrial Training

Diploma of Engineering Technology (Computer & Networking)

Semester 1	<ul style="list-style-type: none">• Electronics Fundamentals• IT Essentials• Introduction To Programming• Technical Mathematics 1• Competency English• Pengajian Malaysia 2 (L)
Semester 2	<ul style="list-style-type: none">• Digital Electronics• Network Fundamentals• Programming Application• Technical Mathematics 2• Interpersonal Skills• Communication English 1
Semester 3	<ul style="list-style-type: none">• Microprocessor and Microcontroller Systems• Network Routing and Switching• Operating System Administration• Technical Mathematics 3• Communication English 2• Amalan Islam di Malaysia (L-M)• Religious Practices in Malaysia (I & L-NM)• Culture & Lifestyle in Malaysia 1
Semester 4	<ul style="list-style-type: none">• Network Design• Project Management• Foreign Language 1**• Voice and Data Cabling• Server Administration• Co-Curriculum
Semester 5	<ul style="list-style-type: none">• Network Interconnections• Final Year Project• Foreign Language 2**• Introduction to Entrepreneurship
Semester 6	Industrial Training

Doctor of Philosophy (Information Technology)

Areas of Research

- E-Commerce
 - Computer Science
 - Computer Information System
 - Software Engineering
 - Computer Networking System
-

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship

Foundation in Computer Technology

Semester 1

- Foundation English 1
- Intercultural Communication
- Basic Korean Language
- Introduction to Algebra and Trigonometry
- Introduction to Computer Technology
- Introduction to Programming
- Introduction to Multimedia

Semester 2

- Foundation English 2
- Creative and Innovation
- Introduction to Web Development
- Introduction to Trigonometry & Calculus
- Information System Essential
- Network Essentials
- Introduction to Graphic Design

Master in Computer Science

Semester 1

- Advanced Computer Science
- Algorithm Complexity Analysis
- Innovation Technology and Entrepreneurship

Semester 2

- Research Methodology

Major in Software Engineering

- Software Requirement and Design
- Software Quality and Testing

Major in System Networking

- Mobile Computing
- Advanced Networking

Semester 3

- Dissertation

Master in Creative Digital Media

Areas of Research

- Interactive technology creativity applications
- Interactive new media and visual communications
- Web designer and Graphic arts and design
- Games animator and director
- Film animator and creative artist
- Film making and story lining
- Digital art/fine digital- artist with software technology media
- Creative Production house and applications
- Courseware designer and developer
- Multimedia Instructional Designer
- Creative Video artist and expertise
- Creative Digital Photography artist and expertise
- Creative contents

Master in Data Science

Semester 1 (Year 1)

- Data architecture and advanced databases
 - Probability and statistics for data science
 - Data mining
 - Acquisition and visualisation analytics
 - Innovation Technology & Entrepreneurship
-

Semester 2 (Year 1)

- Big data architecture
 - Advanced Machine learning
 - ** Elective Courses
 - Research methodology
-

Semester 3 (Year 2)

- Research project
-

Elective

- ** Natural language processing
- ** Information systems and Business Intelligence
- ** Information / Data security

Master of Information Technology

Areas of Research

- E-Commerce
 - Computer Science
 - Computer Information System
 - Software Engineering
 - Computer Networking System
-

Compulsory Module

- Research Methodology
- Innovation Technology and Entrepreneurship