



**UTeM**

اونيورسيتي تيكنيكل مليسيا ملاك  
UNIVERSITI TEKNIKAL MALAYSIA MELAKA  
KUALA LUMPUR BRANCH



# UNIVERSITI TEKNIKAL MALAYSIA MELAKA (UTeM) KUALA LUMPUR BRANCH

## 2026

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# Universiti Teknikal Malaysia Melaka (UTeM) Kuala Lumpur Branch

Universiti Teknikal Malaysia Melaka (UTeM) proudly introduces its Kuala Lumpur branch.

At UTeM KL, we offer Master of Science (MSc) programmes by research across a wide spectrum of engineering and technology disciplines. These programmes are designed for international students and forward-thinking professionals seeking flexible, full-time research pathways with access to world-class expertise.

Each programme is supervised by experienced academics and aligned with cutting-edge industry needs. UTeM Kuala Lumpur provides the platform to advance your knowledge, contribute to impactful research, and prepare for doctoral studies.

# Why Choose MSc by Research at UTeM KL

UTeM Kuala Lumpur offers a forward-looking research environment for international students eager to pursue advanced studies in engineering and technology.



Our Master of Science (MSc) by Research programmes are designed to foster innovation, critical thinking, and global relevance—right from the heart of Kuala Lumpur.



Students benefit from:

- **Strategic Location:** Study in Kuala Lumpur without needing to relocate to Melaka, while still accessing the same academic resources, research facilities, and examination panels as the main campus.
- **Research Excellence:** Engage with cutting-edge topics in robotics, power systems, intelligent control, renewable energy, and more.
- **Academic Continuity:** Seamless progression to PhD programmes in the same research areas.
- **Global Perspective:** Programmes aligned with international standards and supervised by experienced researchers.
- **Supportive Environment:** Multilingual guidance and a collaborative academic culture.

# Faculty of Electrical Technology and Engineering

## Programmes Offered by Research

The Faculty of Electrical Technology and Engineering at UTeM Kuala Lumpur provides advanced opportunities for postgraduate research in cutting-edge areas of electrical and mechatronic engineering.

Students can pursue:

- **MEKA – Master of Science in Electrical Engineering**
- **MEKM – Master of Science in Mechatronic Engineering**

Both programmes are full-time and research-based, designed to equip graduates with the expertise to contribute to global innovation in power systems, robotics, automation, and renewable energy.

# Research Areas by Theme

## Control Systems & Automation

- Control & Automation
- Adaptive Robust Control Systems
- Particle Swarm Optimization
- Motion Control & System Design
- Condition Monitoring of High Voltage Equipment
- System Identification

## Power Electronics & Drives

- Power Electronics & Drives
- Electrical Machine Design, Power Electronics and Drives
- Electric Motor Drives
- EV Drives and Energy Storage
- Inverters
- Power Electronics for Photovoltaic Applications
- Real-Time Control Systems
- Embedded Control Design & Applications

## Robotics & Mechatronics

- Robotics & Humanoid
- Intelligent, Exoskeleton and Mobile Robotics
- Haptics, Robotics, Mechatronics and Motion Control
- Underwater Robotics, Fuzzy Logic, Neural Networks
- Machine Vision and IoT
- Mechatronics Engineering

# Research Areas by Theme

## Renewable Energy & Smart Grid

- Renewable Energy
- Power Electronics & Renewable Energy
- Power Electronics, Electrical Motor Drives, Renewable Energy and Power Quality
- Power Systems, Smart Grid, Solar PV Systems
- Solar Tracking Systems

## Signal Processing & Biomedical Applications

- Advanced Digital Signal Processing for Power Quality & Biomedical Signals
- Biomedical Engineering Applications
- Precision Engineering, Control Systems & MEMS

## Optimization & Artificial Intelligence

- Optimization using Heuristic & Artificial Intelligence
- Computational Mathematics
- Fuzzy Logic Applications
- Neural Networks

## High Voltage & Power Systems

- Power Systems & Optimization
- Power System Protection
- High Voltage Insulation Coordination
- Reactive Power Planning & Economic Dispatch
- Distributed Generation
- Power Quality & Electric Machine Design

# Faculty of Electronics and Computer Technology and Engineering

## Programmes Offered by Research

The Faculty of Electronics and Computer Technology and Engineering at UTeM Kuala Lumpur offers advanced research opportunities in electronic systems, embedded technologies, biomedical applications, and intelligent computing.

Students can pursue:

- **MENA – Master of Science in Electronic Engineering**

This full-time, research-based programme is designed to equip graduates with the skills to innovate in areas such as computer vision, RF and microwave systems, biomedical signal processing, and artificial intelligence.

# Research Areas by Theme

## Computer Vision & Image Processing

- 3D Vision and Image Synthesis
- Advanced Embedded Computer Vision
- Image and Video Processing
- Medical Image Analysis
- Virtual Reality and Image Processing
- Pattern Recognition and Data Mining

## Embedded Systems & Electronics

- Embedded System Design
- IC Design for Biomedical Applications
- Microelectronics and MEMS
- Industrial Electronics
- CMOS Circuit Design
- Hardware-Accelerated Medical Image Processing

## Biomedical Engineering & Signal Processing

- Biomedical Signal Processing
- Brain-Computer Interface (BCI)
- Kinesiology and Instrumentation
- Cognitive Neuroscience
- Statistical Signal Processing
- DSP for Biomedical Applications

## Photonics & Optical Communication

- Optical Communication Systems
- Optoelectronics
- Nanophotonics and Nanoelectronics
- Photonics and Energy Harvesting

# Research Areas by Theme

## **RF, Microwave & Antenna Systems**

- RF and Microwave Circuit Design
- Antenna and Metamaterial Design
- Frequency Selective Surfaces
- RF Switches, Resonators, Filters
- GNSS and Space Physics
- RF Propagation and Wireless Communication

## **Artificial Intelligence & Optimization**

- Machine Learning & AI
- Computational Intelligence
- Optimization Techniques
- Stochastic Modelling
- Intelligent Robotics and Visual SLAM

## **Wireless & Networking Technologies**

- Wireless Sensor Networks
- Mobile Radio & Satellite Communication
- Communication Systems and IoT
- Smart Metering and Smart Grid
- Wireless Location Technologies

## **Control Systems & Automation**

- Nonlinear Control Theory
- Polynomial Control Systems
- Instrumentation & Control
- Automation and Robotics
- Model Identification and Multivariable Control

# Faculty of Industrial and Manufacturing Technology and Engineering

## Programmes Offered by Research

The Faculty of Industrial and Manufacturing Technology and Engineering at UTeM Kuala Lumpur focuses on advanced research in manufacturing systems, materials engineering, automation, and sustainable production.

Students can pursue:

- **MMFA – Master of Science in Manufacturing Engineering**

This full-time, research-based programme prepares graduates to lead innovation in industrial processes, additive manufacturing, composite materials, and human-centered design for next-generation production systems.

# Research Areas by Theme

## Advanced Manufacturing & Automation

- Additive Manufacturing
- Advanced Manufacturing Systems
- Manufacturing Automation
- CAD/CAM & Engineering Design
- Friction Stir Welding
- Electrical Discharge Machining
- Machining Technology & Machine Tools

## Materials & Composites

- Advanced Materials
- Composite Engineering & Technology
- Ceramic Engineering
- Polymer Composite Materials
- Carbon Nanomaterials for Supercapacitors
- Gas Absorption Materials
- Fiberisation

## Design & Innovation

- Innovative Product Design
- Eco Design & Sustainable Manufacturing
- Human-Centered Design
- Engineering Drawing & Spatial Visualization
- Concurrent Engineering
- CAGD & Mathematical Modeling

## Corrosion & Surface Engineering

- Corrosion Science & Engineering
- Electroless Deposition
- Electrodeposition
- Electrochemical Measurement

# Research Areas by Theme

## **Ergonomics & Human Factors**

- Human Factors Engineering
- Industrial Ergonomics
- Human-Machine Integration
- Human-Robot Interaction
- Rehabilitation Robotics & Social Robots

## **Industrial Systems & Operations**

- Industrial & Systems Engineering
- Production Management
- Lean Operations & Kaizen
- Total Quality Management / Six Sigma
- Organizational Transformation & Feasibility Studies
- Operation Research

## **Technology Management & Optimization**

- Technology Management
- Process Modeling
- High-Speed Machining Optimization
- Shaft Alignment
- Project Management

## **Human Factors Engineering**

- Industrial Ergonomics
- Human-Machine Integration
- Human-Robot Interaction
- Rehabilitation Robotics & Social Robots

# Faculty of Information & Communication Technology

## Programmes Offered by Research

The Faculty of Information & Communication Technology at UTeM Kuala Lumpur is dedicated to advancing knowledge in computing, multimedia, artificial intelligence, and secure information systems.

Students can pursue:

- **MITA – Master of Science in Information and Communication Technology**

This full-time, research-based programme prepares graduates to lead innovation in areas such as computer vision, data science, cybersecurity, software engineering, and ICT applications for education, health, and industry.

# Research Areas by Theme

## **Multimedia, Games & Learning Technologies**

- Computer Games Technology & Multimedia Technology
- Virtual Reality & Interactive Environments
- 2D & 3D Animation, Video Production
- Game-Based Learning & Gamification
- Assistive Technology & Human-Computer Interaction
- MOOCs & E-Learning Platforms

## **Artificial Intelligence, Data Science & Soft Computing**

- Artificial Intelligence & Natural Language Processing
- Sentiment Analysis & Computational Linguistics
- Machine Learning & Feature Selection
- Fuzzy Systems & Evolutionary Computing
- Bio-Inspired Computing & Artificial Immune Systems
- Data Mining & Advanced Analytics

## **Mathematics, Modeling & Optimization**

- Applied Mathematics & Computational Science
- Mathematical Modeling & Simulation
- Optimization Techniques & Decision Support Systems
- Multiple-Criteria Decision Making
- Operational Research & Scheduling

## **Networks, Security & Forensics**

- Computer & Network Security
- Intrusion Detection Systems & Malware Analysis
- Digital Forensics & Cyber Terrorism
- Cryptography & Applied Cryptography
- Information Security Management & Risk Analysis
- Network Performance & Protocols

# Research Areas by Theme

## Multimedia, Games & Learning Technologies

- Computer Games Technology & Multimedia Technology
- Virtual Reality & Interactive Environments
- 2D & 3D Animation, Video Production
- Game-Based Learning & Gamification
- Assistive Technology & Human-Computer Interaction
- MOOCs & E-Learning Platforms

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- Digital Forensics & Cyber Terrorism
- Cryptography & Applied Cryptography
- Information Security Management & Risk Analysis
- Network Performance & Protocols

# Research Areas by Theme

## Software Engineering & Systems

- Software Engineering & Requirements Engineering
- Verification & Validation, Secure Software Development
- Distributed Systems & Telemedicine Applications
- Real-Time Software Engineering
- Information Systems, IT Governance & ICT Project Management

## Telecommunications & Signal Processing

- Signal Processing & Data Communications
- Telecommunication Engineering & LED Communication
- Wireless Communications & Multimedia Streaming
- QoS/QoE in Advanced Computer Networks
- Remote Sensing & Image Processing

## Emerging Technologies & ICT Applications

- Internet of Things (IoT) & Cyber-Physical Systems
- Embedded System Design & System-Level Design
- ICT in Education & Learning Analytics
- ICT in Supply Chain Management & E-Commerce
- E-Government & Enterprise Architecture

## Human-Centered Computing & Interaction

- Human-Centered Computing & Mobile Health
- Usable Security & Interaction Design
- Graphic Design & User Experience
- Pervasive Computing & Interactive Media

## Databases & Knowledge Management

- Database Systems & Data Quality
- Storage Optimization & Data Integration
- Knowledge Management & Health Informatics
- Spatial Databases & GIS Applications

# Faculty of Mechanical Technology and Engineering

## Programmes Offered by Research

The Faculty of Mechanical Technology and Engineering at UTeM Kuala Lumpur is committed to advancing mechanical sciences through innovative research in materials, energy, vehicle technologies, and human-centered engineering.

Students can pursue:

- **MMCA – Master of Science in Mechanical Engineering**

This full-time, research-based programme equips graduates with expertise in advanced materials, sustainable energy, vehicle design, and rehabilitation technologies, preparing them to contribute to global innovation in mechanical engineering.

# Research Areas by Theme

## Advanced Materials & Structures

- Advanced Materials
- High Performance Structure
- Vehicle Structure

## Vehicle & Engine Technologies

- Advanced Vehicle Technology
- Engine Design
- Green Tribology and Engine Performance

## Energy & Sustainability

- Green and Efficient Energy Technology
- Innovation and Sustainability in Machine Technologies

## Optimization & Simulation

- Optimization, Modeling, Analysis, Simulation and Scheduling

## Human-Centered & Rehabilitation Engineering

- Rehabilitation Engineering and Assistive Technology

## Dynamics & Monitoring

- Vibration and Structural Health Monitoring

# Faculty of Technology Management & Technopreneurship

## Programmes Offered by Research

The Faculty of Technology Management & Technopreneurship at UTeM Kuala Lumpur is a hub for innovation, entrepreneurship, and strategic technology leadership. It provides advanced research opportunities that integrate business, finance, management, and technology to prepare graduates for global competitiveness.

Students can pursue:

- **MIPE – Master of Science in Entrepreneurship**
- **MIPM – Master of Science in Technology Management**

Both programmes are full-time and research-based, designed to equip graduates with expertise in entrepreneurship, business incubation, technology management, and sustainable development.

# Research Areas by Theme

## Entrepreneurship & Business Innovation

- Entrepreneurship
- Entrepreneurship Technology
- Business Incubation & Innovation
- Business Management & Strategic Technology Alliances
- International Business & Entrepreneurship
- Technology Adoption & Entrepreneurship Development
- Technology Transfer

## Finance, Economics & Accounting

- Banking & Finance Management
- Financial Engineering & Microfinance
- Securitization, Financial Planning, Waqf, Islamic Finance, Accounting
- IT Economics
- Accounting Information Systems & Technology Forecasting

## Management & Organizational Studies

- Business Administration
- Business Continuity & Innovation Management
- Technology Management & Innovation, Information Systems, Risk & Safety
- Technology Management & Family Business
- Supply Chain Management & Marketing (Servicescape)
- Supply Chain Risk Management
- Quality & Productivity Improvement, Green Technology, Multidisciplinary Approaches

# Research Areas by Theme

## Human Resource & Psychology

- Education & Training, HRM
- HRM & Family Business
- Entrepreneurial Psychology
- Psychology (Counselling, Industrial, Vocational, Organizational)

## Law, Policy & Socio-Economics

- Intellectual Property Law
- Socio-Economic Indices Development
- Safety Management Systems & Sustainable Development (Eco-Innovation, Food Security)

## Marketing & Consumer Studies

- Marketing & Entrepreneurship
- Marketing Channels & Distribution
- Green Marketing & Retailing

## Technology & Applied Sciences

- Chemical Technology, Catalysis & Catalytic Leadership

# Institute of Technology Management and Entrepreneurship

## Programmes Offered by Research

The Institute of Technology Management and Entrepreneurship at UTeM Kuala Lumpur integrates communication, counseling, and human resource development with technology and socio-cultural studies.

Students can pursue:

- **MIPC – Master of Science in Technical Communication**
- **MIPI – Master of Science in Industrial Counseling**
- **MIPH – Master of Science in Human Resource Development**

These full-time, research-based programmes prepare graduates to lead in education, communication, Islamic studies, human resource development, and management, while bridging technology and socio-economic innovation.

# Research Areas by Theme

## Education & Learning Technologies

- Computer-Based Learning (Education)
- Education Technology & Educational Technology
- Teaching and Learning
- Technology in Education
- Education & Training, Curriculum, Pedagogy, STEM, TVET

## Language, Communication & Culture

- Corpus Linguistics
- English for Specific Purposes
- English Teaching and Learning
- Web Design and Culture
- Organizational Communication
- Humanitarian Communication

## Human Resource & Personal Development

- Human Resource Training and Development
- Human Resource Development
- Human / Personal Development
- Supervisory, Professional Development & Reflective Thinking
- Soft Skills
- Counselling
- Psychology & Educational Psychology

# Research Areas by Theme

## Islamic Studies & Civilization

- Islamic Preaching and Leadership
- Islamic Preaching and Civilization
- Islamic Astronomy / Syarie Astronomy
- Fiqh Consumerism / Halal and Haram
- Islamic Jurisprudence and Principles
- Principles of Islamic Law / Maqāṣid al-Shariah
- Islamic Governance
- Islamic and Arabic Studies
- Islamic Thought
- Islamic Studies
- Islamic Banking
- Malaysian Studies and Civilization
- Civilization

## Management & Entrepreneurship

- Entrepreneurship, Business Development & Technology Management
- Socioeconomic Development
- Management
- Technology Management
- Urban Development

## Specialized Areas

- Human-Computer Interaction
- Sports Science
- Sports Management
- Qualitative Methods

# Bachelor's Programmes Offered at UTeM Kuala Lumpur Campus

UTeM KL offers future-focused undergraduate programmes that blend technology, innovation, and industry relevance. These full-time programmes are designed to equip students with the skills needed to thrive in a digital and global economy.

## Programmes Offered

### **Bachelor of Computer Science (Artificial Intelligence) with Honours**

- Faculty of Artificial Intelligence and Cyber Security (FAIX)
- Focus: Machine learning, intelligent systems, data science, and AI applications.

### **Bachelor of Technology Management (Supply Chain Management & Logistics) with Honours**

- Faculty of Technology Management & Technopreneurship
- Focus: Logistics, operations, procurement, and strategic supply chain systems.

# Master's Programmes by Coursework

UTeM Kuala Lumpur offers professionally oriented MBA programmes tailored for working professionals and aspiring leaders. These taught-course programmes focus on strategic innovation and operational excellence, preparing graduates for leadership roles in dynamic industries.

## Programmes Offered

### **MBA – Master of Business Administration (Technology and Innovation Management)**

- Faculty of Technology Management & Technopreneurship
- Focus: Strategic leadership, digital transformation, and innovation ecosystems.

### **MBA – Master of Business Administration (Advanced Operations Management)**

- Faculty of Technology Management & Technopreneurship
- Focus: Lean systems, quality control, supply chain optimization, and operational strategy.

# Doctoral Programmes Offered at UTeM Kuala Lumpur Campus

UTeM Kuala Lumpur offers a range of doctoral programmes designed for advanced research, professional development, and industry collaboration. These full-time programmes are supported by expert supervision, flexible study pathways, and access to national-level research infrastructure. All doctoral programmes offered at the Melaka main campus are also accessible through the Kuala Lumpur branch.

## Programmes Offered

### Doctor of Philosophy (PhD)

- Research-based programme across multiple disciplines

### Doctor of Engineering (DEng)

- Industry-focused doctoral research

### Doctor of Technology Management (DTM)

- Focuses on managing high-tech organizations and solving real-world business challenges.

### Doctor of Information Technology (DIT)

- Applied ICT research programme

# UTeM Kuala Lumpur – Driving Innovation, Empowering Futures

*Where research meets impact, and graduates  
become leaders of tomorrow.*



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