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UNIVERSITI TEKNOLOGI MALAYSIA

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POSTGRADUATE STUDY
**FACULTY OF ELECTRICAL
ENGINEERING**



Study at
**Universiti Teknologi
Malaysia**

fke.utm.my



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UNIVERSITI TEKNOLOGI MALAYSIA

POSTGRADUATE STUDY FACULTY OF ELECTRICAL ENGINEERING

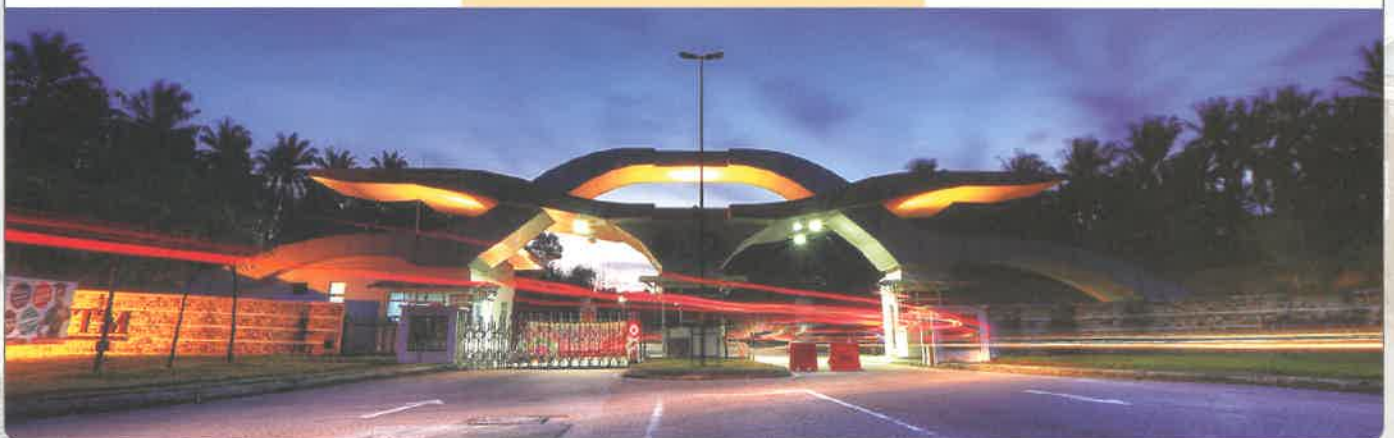
TAUGHT COURSE	RESEARCH
Master of Science (Biomedical Engineering) Master of Engineering (Wireless Communication and Network) Master of Engineering (Computer and Microelectronic Systems) Master of Engineering (Electrical Power) Master of Engineering (Mechatronics and Automatic Control)	Master of Philosophy • Biomedical Engineering • Rehabilitation Technology • Electrical Engineering Doctor of Philosophy • Biomedical Engineering • Health Science • Electrical Engineering

AREAS OF RESEARCH

- Wireless Communication
- RF and Microwave
- Optical Communication
- Artificial Intelligence
- Robotics
- Control and Instrumentation

- High Voltage and High Current
- Power System
- Power Electronics and Drives
- Computer Vision
- Digital Signal Processing
- Biomedical Devices and Technology

- VLSI and Embedded Computing
- Microelectronics
- Diagnostics and Rehabilitation
- Tissue Engineering
- Cardiovascular Engineering
- Sports Innovation and Technology



Notes:

1. A comprehensive list of research areas can be found at the respective faculty websites.
2. Areas and disciplines for Masters by Research and PhD study other than listed above will be offered as Generic Programmes at faculties and schools.



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FAKULTI KEJURUTERAAN AWAM
Faculty of Civil Engineering

POSTGRADUATE STUDY FACULTY OF CIVIL ENGINEERING



Study at
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Malaysia**

civil.utm.my



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UNIVERSITI TEKNOLOGI MALAYSIA

POSTGRADUATE STUDY FACULTY OF CIVIL ENGINEERING

TAUGHT COURSE	RESEARCH
- Master of Engineering (Civil) - Master of Engineering (Construction Management) - Master of Engineering (Environmental Management) - Master of Engineering (Structure) - Master in Geotechnical Engineering - Master of Engineering in Hydraulics and Hydrology - Master of Engineering Transportation - Master of Project Management - Master of Forensic Engineering	- Master of Philosophy • Transportation • Coastal and Maritime • Materials • Highway and Traffic • Structures and Materials • Geotechnics • Environment • Hydrology and Water Resources • Hydraulics and Hydrology • Construction • Structures • Hydraulics - Doctor of Philosophy • Civil Engineering
OPEN & DISTANCE LEARNING (ODL) • Master of Forensic Engineering	

AREAS OF RESEARCH

- Coastal and Maritime
- Materials
- Construction
- Geotechnics

- Highway and Traffic
- Structures and Materials
- Hydraulics
- Environment

- Transportation
- Structures
- Hydrology and Water Resources
- Hydraulics and Hydrology



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POSTGRADUATE STUDY
**FACULTY OF MECHANICAL
ENGINEERING**



Study at
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Malaysia

mech.utm.my



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UNIVERSITI TEKNOLOGI MALAYSIA

POSTGRADUATE STUDY FACULTY OF MECHANICAL ENGINEERING

TAUGHT COURSE

Master of Science (Mechanical Engineering)
Master of Science (Industrial Engineering)

RESEARCH

Master of Philosophy
• Marine Technology
• Mechanical Engineering

Doctor of Philosophy
• Mechanical Engineering

AREAS OF RESEARCH

Applied Mechanics & Design:

- Adaptive Control and Intelligent System
- Computational Solid Mechanics
- Mechatronics & Instrumentation
- Artificial Intelligence
- Elasticity & Plasticity
- Automatic Control & System Engineering
- Fatigue and Fracture Mechanics
- Biomechanics & Biomedical Engineering
- Finite Element Method
- Functional Control Systems
- CAD & Virtual Reality
- Guided Wave & Acoustic
- Composite Structure & Ballistic Impact
- Structural Dynamic & Mechanics
- Structural Impact & Crashworthiness
- Thin-Walled and Polymeric Materials
- Tissue Engineering Scaffolds
- Porous Structures
- Reliability & Engineering
- Design
- Shells & Pressure Vessels
- Structural Vibration
- Condition Monitoring

Thermofluids:

- Advanced Refrigeration and Air-Conditioning System
- Combustion & Heat Transfer
- Compressible Flow
- Computational Fluid
- Dynamics
- Fuel, Biomass, and Energy
- Heating & Ventilation
- Micro-Cooling
- Sustainable Energy Technology
- Thermofluids
- Measurement and Diagnostics
- Energy Management
- Tribology & Lubrication

Materials, Manufacturing & Industry:

- Advanced Manufacturing Process
- Advanced Materials
- Automation in Manufacturing
- CAD/CAPP/CAM/CNC
- Carbon Nanomaterials
- Ceramics and Composites
- Ceramics Coating
- Ferrous metallurgy
- Solder Metallurgy Technology
- Solid State Kinetics
- Surface Coating
- Surface Treatment and Industrial Engineering
- Surface Engineering and Composites Machining
- Sustainable Product Design
- System Dynamic Modeling
- Virtual Manufacturing Work Design
- Quality improvement and Design Improvement
- Operations Management Research
- Life cycle Assessment
- Supply chain Management
- Lean manufacturing Facility design and Management

Automotive, Aeronautic & Offshore:

- Advanced Ice-Ship
- Aerodynamics
- Airspace Safety Monitoring System
- Automotive Tribology
- Avionics and Antennae
- Biofuel and Multiphase Flow
- Brake Design & Safety
- CFD & Combustion Technology
- Computer Vision
- Contact Mechanics
- Electric and Hybrid Vehicles
- Engine Air Management

- Ethnographic Factors in Fishing Boat Design
- FEM & Model Updating
- Flight Guidance and Control
- Flight Simulation
- Helicopter Technology
- Aircraft Structures
- Drone Technology
- Rocket Propulsion
- Tunnel Testing
- Turbo machinery & Aeroacoustics
- Unsteady Aerodynamics
- Vehicle Powertrain
- Vehicle Stability and Control
- Vehicle Dynamics and Control
- Vortex Induced Vibration
- Wave Structure Interaction
- Hull-Riser-Mooring Coupled
- Hydromechanics
- Low Emission Combustor
- Marine Active Control
- Marine Safety and Environment
- Marine Transport and Management
- Mega-Float Design & System
- Modelling
- Ship Dynamics
- Smart Offshore Structure
- Stability & Design
- Subsea & Offshore
- Engineering System Energy

Notes:

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POSTGRADUATE STUDY
**FACULTY OF CHEMICAL AND
ENERGY ENGINEERING**



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TAUGHT COURSE	RESEARCH
Master in Chemical Engineering Master of Gas Engineering and Management Master in Petroleum Engineering Master of Science (Energy Management) Master in Herbal Technology Master In Process Plant Management Master of Science (Safety, Health and Environment) Master of Science (Polymer Technology) Master in Bioprocess Engineering Mater of Science in Food Processing Innovation	Master of Philosophy Doctor of Philosophy • Gas Engineering • Environmental Engineering • Petroleum Engineering • Bioprocess Engineering • Chemical Engineering • Polymer Engineering
OPEN & DISTANCE LEARNING (ODL)	
• Master of Science (Energy Management)	

AREAS OF RESEARCH

Chemical Engineering

- Membrane Manufacturing for Water
- Gas Purification
- Energy Application
- Advanced Material for Water
- Gas Transmission and Distribution System
- Development of Adsorbent for Water and Gas Application
- Computational fluid Dynamics (CFD) Development and Application
- Waste Combustion
- Storage System
- Industrial Process Tomography
- Explosion Protection and Mitigation
- Corrosion of Metals
- Nondestructive Testing (NDT) and Radiation
- Biomass to Biofuels
- Safety and Risk Assessment
- Nuclear Engineering

Bioprocess Engineering

- Bioprocessing
- Bioreactor Design
- Fermentation Technology
- Enzyme
- Genetic Engineering
- Cell Culture
- Food Technology, Food Packaging o Plant Extraction
- Herbal Technology
- Bioseparation
- Biofuel
- Environmental Biotechnology
- Cosmeceutical
- Proteomic
- Nutraceutical
- Bioconversion
- Bioproduct Development
- Metabolomics

Polymer Engineering

- Polymers Blend
- Polymers Composites and Nanocomposites
- Natural Fiber Reinforced Polymers
- Composites
- Nano Filler Polymers Composites
- Thermoplastic Elastomer
- Bio-degradable Polymers and Degradable Polymers
- Liquid Rubber and Rubber Technology
- Polyurethane and Polyacrylic Coatings, Polyurethane Foam
- Shape Memory Polymers
- PVC Blends
- Biodegradable Packaging
- Polymer Recycling
- Functional / Smart Polymer (Hydrogel)
- Advanced Membrane Functionalization
- Crystallization and Thermal Degradation Studies / Kinetics of Polymer Melts, Polymer Blends and Composites
- Rheology of Polymer Melts, Polymer Blends and Composites
- Polymer Processing, Instabilities and Processing Aids

Petroleum Engineering

- Production of Local Lignin from Coconut Fiber as Lignin Based Surfactant in EOR
- Vibro-seismic Application in EOR
- Cementation of Porous Media Using Calcite
- Surfactant Foam Flooding in EOR
- CO₂ Sequestration/Storage
- Alkaline Surfactant Flooding in EOR
- Deep Water Drilling
- Non-Convectonal Resources
- Production Optimization
- Rejuvenate Old Field
- Small & Marginal Field Development

- Nano Material and Technology Application in Drilling & Production
- Cement Material and Cementing Technology
- Polymer Flooding in EOR
- Carbonated Water Flood ingin EOR
- Nano uids Application in EOR

Gas Engineering

- Membrane Manufacturing for Water and Gas Purification and Energy Application
- Advanced Material for Water and Gas Purification and Energy Application
- Gas Transmission and Distribution System
- Development of Adsorbent for Water and Gas Application
- Computational Fluid Dynamics (CFD) Development and Application
- Waste Combustion
- Storage System
- Industrial Process Tomography
- Explosion Protection and Mitigation
- Corrosion of Metals
- Non-destructive Testing (NDT) and Radiation
- Biomass to Biofuels
- Safety and Risk Assessment
- Nuclear Engineering

Environmental Engineering

- Water Pollution Control and Treatment
- Environmental Management and Sustainability
- Sustainable Consumption and Production
- Solid and Hazardous Waste Management
- Life Cycle Assessment (LCA)
- Industrial and Municipal Wastewater Treatment
- Water Quality Assessment and Management
- Environmental Quality Analysis
- Modelling

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FAKULTI KOMPUTERAN
Faculty of Computing

POSTGRADUATE STUDY FACULTY OF COMPUTING



Study at
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Malaysia

comp.utm.my

Student Lounge
FACULTY OF COMPUTING



POSTGRADUATE STUDY FACULTY OF COMPUTING

TAUGHT COURSE	MIXED MODE	RESEARCH
Master of Science (Data Science) Master of Cyber Security Master in Innovative Computing	Master of Computer Science	Master of Philosophy • Computer Science • Software Engineering Doctor of Philosophy • Computer Science • Software Engineering • Informatics Engineering
OPEN & DISTANCE LEARNING (ODL) • Master of Cyber Security • Master of Computer Science		

AREAS OF RESEARCH

- Artificial Intelligence
- Augmented Reality Environment
- Bioinformatics
- Body Sensor Network Trust
- Business Process Engineering & Knowledge Management
- Cloud Computing Management & Adoption
- Cloud Computing Protocol & Security
- Co-Creation and Strategic
- Computer Forensic
- Computer Network & Security
- Corporate Forensic Readiness Framework
- Data Clustering
- Database and Information Retrieval
- Disaster Recovery Management

- Disaster Recovery Metamodeling
- E-Learning
- E-Services Satisfaction & Quality Management
- Forgery Detection & Optimization
- Framework for E- Government
- Graphics & Multimedia
- Information Security Metamodeling
- Information Service System
- Information System Adoption
- Information System Security
- Internet of Things (IoT)
- IT Service Management
- MANET Protocol
- Modeling Classification
- Network & Security
- Network Forensic

- Object Tracking Algorithm
- Operational Research Business Intelligence
- Optimization and Scheduling
- Pattern Recognition
- Pervasive Computing
- Privacy Modelling
- Privacy Preserving
- Social Media Framework
- Social Networking Adoption
- Soft Computing Virtual
- Software Engineering and Information Assurance
- Software Testing
- VANET
- Visualization and Vision

Notes:

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POSTGRADUATE STUDY **FACULTY OF SCIENCE**



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science.utm.my



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POSTGRADUATE STUDY FACULTY OF SCIENCE

TAUGHT COURSE	MIXED MODE	RESEARCH
Master of Forensic Science	Master of Science in Mathematics Master of Science (Chemistry) Master of Science in Engineering Mathematics Master of Science in Physics Master of Science (Biotechnology)	Master of Philosophy Doctor of Philosophy • Physics • Bioscience • Mathematics • Chemistry Master of Philosophy Doctor of Philosophy

AREAS OF RESEARCH

Chemistry:

- Biotechnology
- Nanostructures & Nanomaterials
- Natural Products Chemistry
- Organic Synthesis
- Organometallics
- Polymer Chemistry
- Solid State Chemistry
- Electroanalytical Chemistry & Spectrometric Analysis
- Computational Chemistry & Chemometrics
- Forensic Sciences & Biomedical Sciences
- Membrane technology, Environmental Chemistry
- Nonlinear Optic Materials
- Photocatalysis
- Heterogeneous Catalysis
- Energy Materials
- Adsorbent for Wastewater

- Nanostructures & Nanomaterials
- Supramolecular Chemistry
- Metal Organic Frameworks
- Metal Complex Synthesis
- Computational Chemistry
- Nonlinear Optic Materials
- Organometallic Chemistry

Mathematics:

- Algebra and Analysis
- Applied and Computational Mathematics
- Statistics
- Operational Research

Physics:

- Material Physics
- Nuclear and Radiation Physics
- Optical Physics
- Scientific Computation

Bioscience:

- Biological Science
- Bioinformatics
- Genome Biology and Proteomics
- Environmental Biotechnology
- Industrial Biotechnology
- Medical Biotechnology
- Nanobiotechnology
- Plant and Agriculture Biotechnology

Notes:

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POSTGRADUATE STUDY FACULTY OF SOCIAL SCIENCES & HUMANITIES



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humanities.utm.my



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UNIVERSITI TEKNOLOGI MALAYSIA

POSTGRADUATE STUDY FACULTY OF SOCIAL SCIENCES & HUMANITIES

LANGUAGE ACADEMY

TAUGHT COURSE

Master of Language in Communication and Digital Culture

RESEARCH

Master Of Philosophy
Doctor Of Philosophy

OPEN & DISTANCE LEARNING (ODL)

- Master of Language in Communication And Digital Culture

AREAS OF RESEARCH

- Applied in Linguistics
- Computer-Mediated Communication
- Corpus Linguistics
- Discourse Analysis
- English / Language for Specific Purposes (ESP)
- Genre Analysis
- Gender Communication
- Health Communication
- Language Training
- Literature Cultural and Intercultural Communication
- Media and Global Communication
- Organisational and Institutional Discourse
- Political Discourse
- Sociolinguistics
- Visual Communication / Multimodality

ACADEMY OF ISLAMIC CIVILIZATION

RESEARCH

Master of Philosophy
• Halal Science

Doctor of Philosophy
• Fiqh Science and Technology

Master of Philosophy
Doctor of Philosophy

AREAS OF RESEARCH

- Ethics in Science and Technology
- Halal Laws and Regulations in Malaysia
- Issues in Islam Science and Technology
- Muslim Scientists and Their Thoughts
- Policies of Halal Science
- Scientific and Technical Usage
- The Concept Theory and Philosophy of Islamic Science
- The Education of Science and Technology
- The Ethics of Halal Science
- The Fiqh of Science and Technology
- The Methodology of Islamic Science
- The Science of I'jaz Al-Quran

Notes:

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SCHOOL OF HUMAN RESOURCES DEVELOPMENT AND PSYCHOLOGY

TAUGHT COURSE

Master of Human Resource Development

RESEARCH

Master of Philosophy

• Human Resource Development

Master of Philosophy

• Doctor of Philosophy

AREAS OF RESEARCH

- Human resources
- Human resource development
- Organizational development
- Occupational health safety
- Leadership
- Communication
- Industrial and organizational psychology

- Sociology
- Counselling
- Islamic Psychology
- Mental health issues and prevention
- Human Resource management
- Industrial Psychology
- Industrial Sociology
- Organizational Communication

- Organizational Psychology
- Professional ethics
- Safety and Health
- Training & Development
- Psychology



RAJA ZARITH SOFIAH CENTRE FOR ADVANCED STUDIES ON ISLAM, SCIENCE AND CIVILISATION (RZS CASIS)

RESEARCH

Master of Philosophy

Doctor of Philosophy

AREAS OF RESEARCH

- Islamic Education
- Educational Philosophy
- Islamic Art
- Language
- Manuscript Study

- History and Civilization
- Philosophy of Science
- Islamic Thought
- Law and Ethics
- Philosophy



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SCHOOL OF EDUCATION

TAUGHT COURSE	MIXED MODE	RESEARCH
Master of Education • Management and Administration • Guidance & Counselling • Curriculum & Instruction • Education & Development • Educational Psychology • Measurement & Evaluation • Teaching English as a Second Language • Physics • Chemistry • Mathematics • Educational Technology • Technical and Vocational Education	Master in Education Specialization: • Management and Administration • Guidance & Counselling • Curriculum & Instruction • Education & Development • Educational Psychology • Physics Education • Physical Education and Sports Science • Islamic Studies • Chemistry Education • Mathematics Education • Educational Technology • Measurement & Evaluation • Science Education • Early Childhood Education • Teaching English as a Second Language • Technical and Vocational Education	Master of Philosophy Doctor of Philosophy • Management and Administration In Education • Guidance and Counselling In Education • Curriculum and Instruction • Educational Psychology • Physics Education • Chemistry Education • Mathematics Education • Measurement and Evaluation In Education • Educational Technology • Education and Development • Technical and Vocational Education • Teaching English as A Second Language • Multimedia In Education • Online Learning Master of Philosophy Doctor of Philosophy
OPEN & DISTANCE LEARNING (ODL) • Master of Education (Physics) • Master of Education (Mathematics) • Master of Education (Educational Technology) • Master of Education (Technical and Vocational Education)		
AREAS OF RESEARCH		
• Sport Science • Algebraic Thinking Cognitive Science • Assessment Evaluation Policy • Child Physical Development and Cognitive Science • Comparative Studies Human Development • Current Issues in Education • Curricular Reform Sport Science • Curriculum of Professional Continuing Education Program • Diagnostic and Remedial Problem • Discipline Problems • Educational Courseware Assessment • E-Learning • Standard of Professional Continuing Education Program • Teaching And Learning for Professional Executives • Truancy/Absenteeism • Engineering and Technical Practise	• Exercise and Sports • Experience Based and Prior Knowledge Assessment • Fundamental Movement Assessment • Geometrical Thinking • Health and Fitness Program For Special Population • Human – Computer Interaction • Human Development • ICT Based Instruction Design • Implementation and Evaluation of Curriculum • Issue Related to Professional Continuing Education Program • Laboratory Work Assessment • Learning Technologies • Special Education Assessment • Technical and Vocational Education and Training (TVET) • Work-based Learning • Learning Through Social Networking	• Life Style & Wellness • Management Higher Education • Mathematical Thinking • Meaningful Interactive Learning • Metacognition • Online Education Testing • Pedagogical Methods Learning Technologies • Pedagogical Methods • Personalize Learning • Physical Activity • Physical Social Development • Problem Based Learning • Reading Readiness • School Readiness • School-Based Assessment • Science and Mathematics Standards • Scientific Thinking • Teacher Education • Training Program and Short Course foe Executive

Notes:

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POSTGRADUATE STUDY FACULTY OF MANAGEMENT



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POSTGRADUATE STUDY FACULTY OF MANAGEMENT

TAUGHT COURSE	MIXED MODE	RESEARCH
Master of Science (Information Technology Entrepreneurship)	Master of Information Technology Specialization: Technology Management Master of Information Technology Specialization: Information Technology Management	Master of Philosophy • Management Doctor of Philosophy • Information Systems • Management

AREAS OF RESEARCH

- Information Systems
- Digital Transformation
- Service Innovation
- Adoption of Information Systems
- Gamification in Information Systems
- eLearning and Educational Technology
- Social Media in Society and Business
- E-Government
- E-Commerce
- Health Informatics
- Knowledge Management
- Information Technology Entrepreneurship
- Accounting and Finance
- Business and Management
- Business Law and Taxation
- Corporate Governance
- Economics
- Entrepreneurship
- Information System Management
- Management Technology
- Marketing



Notes:

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POSTGRADUATE STUDY FACULTY OF BUILT ENVIRONMENT AND SURVEYING



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POSTGRADUATE STUDY FACULTY OF BUILT ENVIRONMENT AND SURVEYING

TAUGHT COURSE

Master of Architecture
Master of Asset and Facilities Management
Master of Science (Construction Contract Management)
Master of Science (Geoinformatics)
Master in Geomatics Engineering
Master in Land Administration and Development
Master of Science (Real Estate)
Master of Science in Remote Sensing
Master of Science (Tourism Planning)
Master in Transportation Planning
Master of Science (Urban and Regional Planning)

RESEARCH

Master of Philosophy
Doctor of Philosophy
• Geoinformatics
• Geomatic Engineering
• Remote Sensing
• Facilities Management
• Land Administration and Development
• Quantity Surveying
• Transportation Planning
• Architecture
• Urban And Regional Planning
• Real Estate
• Landscape Architecture

AREAS OF RESEARCH

Landscape Architecture

- Children's Environment
- Community Landscape Planning
- Cultural Landscape
- Green Technology
- Historical and Heritage Landscape
- Islamic Built Environment & Islamic Studies
- Landscape and Climate Research
- Landscape Assessment
- Landscape Ecology and Urban Ecology
- Landscape Professional Practice
- Landscape Resources Planning
- Urban Greening
- Urban Landscape Design

Transport Planning

- Airport Planning Management
- Freight Transport
- Highway Planning
- Logistics & Physical Distribution Management

- Port Planning and Cargo Handling
- Public Transport Operations
- Public Transport Planning & Management
- Regional Transportation Planning
- Traffic Engineering and Management
- Transport and the Environment
- Transport Economics
- Transport Policy
- Transportation Models
- Urban Transport and Modeling

Urban and Regional Planning

- Climate Change
- Environmental Planning
- Geographic Information System
- Housing and Community Planning
- Low Carbon Society / City
- Regional Planning
- Remote Sensing Applications
- Rural Planning
- Spatial Analysis for Social Issues

- Spatial Modelling
- Tourism Planning
- Urban Design
- Urban Development and Management
- Urban Morphology

Geoinformation and Real Estate

- Facilities Management
- Geoinformatics
- Geomatics Engineering
- Land Administration and Development
- Real Estate
- Remote Sensing



Notes:

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AZMAN HASHIM
Bonding
SPACE

POSTGRADUATE STUDY **AZMAN HASHIM INTERNATIONAL BUSINESS SCHOOL**



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business.utm.my



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POSTGRADUATE STUDY AZMAN HASHIM INTERNATIONAL BUSINESS SCHOOL

TAUGHT COURSE	MIXED MODE	RESEARCH
Master of Business Administration Master of Science in Food Processing Innovation	Doctor of Business Administration	Doctor of Philosophy
OPEN & DISTANCE LEARNING (ODL) • Master of Business Administration		

AREAS OF RESEARCH

- Management and Human Capital
- Finance and Accounting
- Marketing
- Business Innovation Technology
- Entrepreneurship
- Learning and Development Interventions
- Behavioral Accounting
- Advertising
- Branding
- Consumer Behaviour

- Marketing
- Social Entrepreneurship
- Supply Chain Management
- Auditing
- Corporate Governance
- Corporate Finance
- Enterprise Risk Management
- Financial Accounting and Reporting
- Financial Management
- Investment
- Islamic Finance

- Management Accounting
- Performance Measurement
- Taxation
- Business Ethics
- Business Strategy
- Business Planning
- E-commerce
- Economic Planning and Development
- Financial Economics
- Macroeconomics
- Macroeconomic indicators and policy



Notes:

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POSTGRADUATE STUDY MALAYSIA-JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY



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Malaysia

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UNIVERSITI TEKNOLOGI MALAYSIA

POSTGRADUATE STUDY MALAYSIA-JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY

TAUGHT COURSE	RESEARCH
Master of Disaster Risk Management Master of Sustainability and Environmental Sciences Master of Sustainable Systems Master of Technology and Innovation Management	Master of Philosophy Doctor of Philosophy

AREAS OF RESEARCH

Multi-technology

- Advanced Devices and Materials Engineering
- Artificial Intelligence and Robotics
- Biologically Inspired System and Technology
- Communication System & Network Embedded System
- Conversions and Applications Nano-characterization
- Ecological Engineering Air Resources
- Intelligent Dynamic System
- Lipids Engineering, Environment
- Metabolic Engineering and Molecular Biology
- Photonic Thermal Engineering Management of Technology
- Structural Control and Processing
- Tribology and Precision Machining
- Vehicle Systems Engineering

Environmental Engineering

- Air Resources
- Wind Engineering
- Thermal Environmental System

Biological Technology

- Biologically Inspired System and Technology
- Algal Biomass

Science Engineering

- Tribology and Precision Machining
- Metabolic Engineering & Molecular Biology

Innovation, Technology Management & Business

- Intellectual Property and Innovation
- Technology Management
- Marketing for Technology
- Financial Concept for Technology
- Human Resource Concept
- Strategic Planning
- Business Acumen
- Policy Development Related to Innovation and Technology
- Fourth Industrial Revolution

Chemical

- Chemical Energy Conversions and Applications
- Nano-characterization, Structural Control and Processing

Notes:

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POSTGRADUATE STUDY
**RAZAK FACULTY OF TECHNOLOGY
AND INFORMATICS**



Study at
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Malaysia**

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UNIVERSITI TEKNOLOGI MALAYSIA

POSTGRADUATE STUDY RAZAK FACULTY OF TECHNOLOGY AND INFORMATICS

TAUGHT COURSE	MIXED MODE	RESEARCH
Master Occupational Safety and Health Management Master in Science, Technology And Innovation Policy Master of Professional Science Master of Science (Business Intelligence and Analytics) Master of Science (Computer Systems Engineering) Master of Science (Engineering Business Management) Master of Science (Engineering Design) Master of Science (Engineering Education) Master of Science in Informatics Master of Science in Information Security Assurance Master of Science (Sustainable Infrastructure) Master of Science (Sustainable Urban Design) Master of Science (Systems Engineering) Master of Software Engineering	Doctor of Engineering In Engineering Business Management	Master of Philosophy • Industrial Design • Policy Studies Doctor of Philosophy • Policy Studies Master of Philosophy Doctor of Philosophy
OPEN & DISTANCE LEARNING (ODL)		
♦ Master of Science (Business Intelligence And Analytics)		

AREAS OF RESEARCH

Mechanical and Manufacturing Engineering

- Materials and Material Processing
- Manufacturing Process and System
- Quality and Robust Engineering
- Operation Management and Industrial Engineering
- Occupational Safety and Health
- Ergonomics
- Noise and Vibration
- Ultrasonic Vibration
- Finite Element Simulation and Modeling
- Instrumentation and Control
- Aeronautic Engineering and Fluid Mechanics
- Maintenance Engineering
- Condition Monitoring

Sciences

- Chemoinformatics
- Computational Chemistry
- Mathematics
- Applied Mathematics

Electrical and Computer Engineering

- Signal and Image Processing
- Electrophysiology Signals
- Bioinformatics
- Biomechanics
- Telematics and Wireless Network
- Computer Networking
- Broadband Multimedia
- Photonics and Fibre Optics System
- Power and Control System
- Renewable Energy
- Solar Engineering

Design

- Design Theory and Methodology
- Green Building Technology
- Historic Urban Landscape
- Urban Studies
- Urban Ecology and Sustainability
- Politics of Space
- Industrial Design
- Decision Making in Design
- Industrial Design Prototype Development
- Industrial Design Modelling

Informatics

- Cloud Computing
- Embedded Computing
- Enterprise ICT Management
- ICT Network
- Management
- Image and Signal Processing
- Internet of Things and Edge Computing
- Design and Development
- Software Quality and Testing
- Blockchain and Security
- Wireless Sensor Network
- Augmented Reality and Gamification
- Data Analytics and Visualization
- Human Information Processing
- Media Informatics and Visual
- Computer Ethics
- Interaction Design and Usability
- Biometrics
- Network and Cloud
- Business Intelligence
- Data Mining
- Pattern Recognition
- Policy and Risk Management
- Digital Forensics

Notes:

1. A comprehensive list of research areas can be found at the respective faculty websites.
2. Areas and disciplines for Masters by Research and PhD study other than listed above will be offered as Generic Programmes at faculties and schools.