



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM Razak School of
Engineering and
Advanced Technology



UTM Razak School of Engineering and Advanced Technology

MASTER & Ph.D PROGRAM

UTM RAZAK SCHOOL

VISION



**To be a global provider of innovative
multi-disciplinary industry-focused
programmes and services**

UTM RAZAK SCHOOL

MISSION

To provide innovative industry-focused programs and services aimed at producing change agents for organisational excellence



UTM RAZAK SCHOOL

UNIQUENESS

- **Life-Long Learning Programs**

With 8 Master programs + 2 Doctoral programs, RSEAT definitely a perfect choice to pursue higher education

- **Multidisciplinary Faculty**

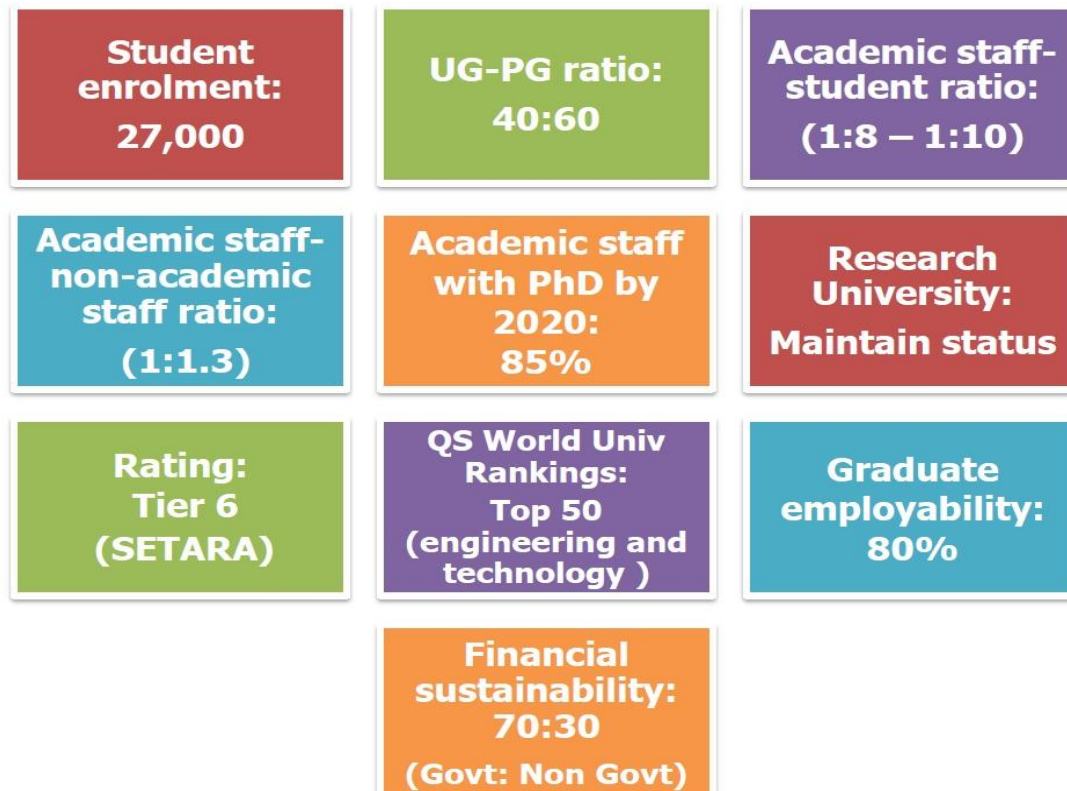
With 55 Engineering Academic staff & 29 Academic staff from Science, Management and Design – RSEAT can cater most of academic needs and background

- **Strong Linkage with Industries**

UTM Razak School pioneered the life-long executive development programs and research in conjunction with industry. Perfect location for industries.

Background

Desired State by 2020



UTMKL Transformation Goals

- KL to soar – KL Lifestyle
- PG focused campus
- International outlook and linkages
- Close links with industries
- HiCoes, COEs
- Revenue Generation – positive surplus
- High end Executive Programmes and Short courses

SUMMARY OF POSTGRADUTE PROGRAMMES

UTM RAZAK SCHOOL , KUALA LUMPUR

No	Name of program	Fees (RM)			Mode of delivery	Min entrance requirement	Contact
		Mode	Local	International			
1.	Engineering Doctorate (Engineering Business Management)	Full time (3yr)	45,700	55,200	Mixed mode	<ul style="list-style-type: none"> • Master's degree or equivalent • Relevant industrial experiences may be considered as supplement to the entry qualifications • Fresh graduate or a current employee of an industry related to the field of study 	Dr. Rozzeta Dolah Tel: +603-21805287 +6017-3617855 rozzeta.kl@utm.my
		Part time (4yr)	45,700	55,200			
2.	The Doctor of Philosophy	Full time (3yr)	15,860	37,310	Full research	Candidates must have a Master's degree	Dr. Mohd. Khairi bin Abu Husain Tel: +603-22031385 +6019-3682493 mohdkhairi.kl@utm.my
		Part time (4yr)	14,330	33,330			
3.	Master of Philosophy/ Master of Philosophy In Industrial Design	Full time(1.5yr)	8,255	18,980	Full research	<ul style="list-style-type: none"> • A bachelor degree • Bachelor of Science in Industrial Design CPA > 2.5 	Dr. Nelidya Md Yusoff Tel: +603-26154859 +6012-6998806 nelidya.kl@utm.my
		Part time(3yr)	7,490	16,990			
4.	Master of Science (Engineering Business Management)	Full time(1.5yr) / Part time (3yr)	22,500 / 22,500	32,500 / 32,500	Modular (No Final Exam)	<ul style="list-style-type: none"> • A bachelor degree in Engineering, Technology, Science, Management, Business or Accounting • Min CGPA 3.00 (fresh graduate) • CGPA < 3.00, sufficient relevant work experiences. 	Dr. Nor Raihana Mohd Ali Tel: +603-26154584 +6010-2324583 raihana.kl@utm.my

No	Name of program	Fees (RM)			Mode of delivery	Min entrance requirement	Contact
		Mode	Local	International			
5.	Master of Science (Sustainable Urban Design)	Full time (1.5yr)/ Part time (2.5yr)	15,776 / 15,776	25,765 / 25,765	Conventional	<ul style="list-style-type: none"> A Bachelor Degree in Architecture, Urban and Regional Planning or Landscape Architecture Min CGPA 3.00 (fresh graduate) CGPA<3.0, min. of 2 yrs Ind. experience A Bachelor Degree in any related field, min of 2 years industrial experiences and Pass interview 	Dr.Mohammad Hussaini bin Wahab Tel:+6 03-22034658 +6017-3245899 hussaini.kl@utm.my
6.	Master of Science (Systems Engineering)	Full time (1.5yr)/ Part time (2yr)	17,050 / 17,050	30,000 / 30,550	Conventional	<ul style="list-style-type: none"> A Bachelor's degree in Engineering or Technology, Electrical, Electronics, Mechanical, Manufacturing, Computer Min CGPA 3.0 (fresh graduate) Bachelor's degree in Physics can be considered. CGPA< 3.0, min. 2 years work experience 	Dr. Siti Zura binti A. Jalil Tel: +603-22031440 +6017-3329239 sitizura.kl@utm.my
7.	Master Professional Science	Full time (1.5yr) Part time (2yr)	18,550 / 22,550	28,550 / 28,550	Conventional	<ul style="list-style-type: none"> A Bachelor's degree in Science/Maths Engineering or Technology Min CGPA of 3.0 (fresh graduate) CGPA < 3.00,sufficient relevant work experiences 	Dr. Sharipah Alwiah Syed Abd Rahman Tel: +603-26154498 +6013-3405647 shalwiah.kl@utm.my
8.	Executive Master In Occupational Safety And Health Management (EMOSHM)	Full time (1.5yr)/ Part time (2.5yr)	22,400 / 22,400	35,400 / 35,400	Modular (No Final Exam)	<ul style="list-style-type: none"> A bachelor degree in Engineering, Technology, Science and Management Min CGPA 3.00 (fresh graduate) CGPA < 3.00;sufficient relevant work experiences 	Dr. Sa'ardin Abdul Aziz Tel: +603-26154802 +6019-2643641 saa.kl@utm.my

No	Name of program	Fees (RM)			Mode of delivery	Min entrance requirement	Contact
		Mode	Local	International			
9.	Master of Science (Sustainable Infrastructure)	Full time (1.5yr)/ Part time (2yr)	19,800	32,000	Conventional	<ul style="list-style-type: none"> A Bachelor's Degree in the Engineering and Technology with min CGPA 3.00 A Bachelor's Degree in Applied and Pure Science with min CGPA 3.00 and must pass the interview Applicant with lower academic achievement must have min. of 2 years industrial experience in related field and pass the interview 	Dr. Nor Fazilah binti Mohd Hashim Tel:+6 03-2615 4654 +6017-698 1685 fazilah.kl@utm.my
10.	Master of Science (Engineering Design)	Full time (1.5yr)/ Part time (2yr)	19,800	32,000	Conventional	<ul style="list-style-type: none"> A Bachelor's degree in Engineering or Technology, Electrical, Electronics, Mechanical, Manufacturing, Computer Min CGPA 3.0 (fresh graduate) A Bachelor's degree in Science with industrial experience in related field Min CGPA = 2.70, min. 2 years work experience Min CGPA= 2.50, min. 4 years work experience 	Dr. Shamsul bin Sarip Tel: +603-2180 5143 +6011-3208 5900 shamsuls.kl@utm.my

Fields 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 Modelling, Instrumentation and Control, Aeronautic Engineering and Fluid Mechanics, Maintenance Engineering and Condition Monitoring.

ELECTRICAL AND COMPUTER ENGINEERING

Biosignal and Image Processing, Telematics and Wireless Network, Computer Networking, Broadband Multimedia, Photonics and Fiber Optics System, Power and Control System, Artificial Intelligent and Pattern Recognition.

CIVIL ENGINEERING

Structural Mechanics and Analysis, Concrete and Precast, Construction Management, Project Management, Building Infrastructure, Procurement Management, Contract Management, Performance Benchmarking, Groundwater Engineering, Surface Water Hydrology, Fluid Mechanics, Hydraulics and Hydrology, Water Resources Engineering and Management, Water Quality, Offshore Structure and Analysis, Environmental Engineering, Water and Wastewater Treatment, Environmental Management, Solid Waste Management, EIA, LCA, Geospatial Intelligent, LIDAR, Remote Sensing, GIS, Geomorphology, Hydrographic Surveying, Marine Mapping

SCIENCES

Semiconductor Physics, Nanostructure, Thin Film, Superconductivity, Statistical Modelling in Hydrology, Extreme Rainfall Analysis and Modelling, Statistical Downscaling with respect to Climate change, Spatio-Temporal Modeling in Hydrology, Applied Statistics, Wave Mechanics, Graph Theory Application Model, Location System, Computational Maths, Mathematic Education, Mathematical Thinking, Education and Training at Workplace, Mathematic at the Workplace, Assessment of Learning, Curriculum Development, Adult Learning.

SOCIAL SCIENCES

Land Economics, Retail Marketing, Halal Trading, Foreign Language Education, Comprehension, Language Learning & Teaching, ESL, ELT, Educational Psychology, Human Resource Development, Information Technology Management, Management Information Systems, Ethics in Computing, Decision Support Systems, Organizational Behaviour, Training and Development, Workplace Learning, Organizational

Development and Change, Career Development, Staffing and Recruitment, Performance Management, Organizational / Managerial Communication.

Courses

1. CORE COURSES

A. University Courses (6 credit)

- Research Methodology (Compulsory) 3
and choose **ONE** Only *from the list below*
- Environmental Ethics 3
- Information and Communication Technology Ethics and Society 3
- Dynamics of Leadership 3
- Malaysian Society and Culture (for international students only) 3
- Organizational Behavior and Development 3

Fee

PhD

	Local	International
● Tuition fee (full time)	RM 15,570.00	RM 37,020.00
● Tuition fee (part time)	RM 14,010.00	-
● Processing fee	RM 20.00	RM 114.00



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For online application, please log on to www.sps.utm.my
Program Code: PDGA3CKA

Program Coordinator:

Dr. Mohd Khairi bin Abu Hasain

Tel: +603- 22031385 Fax: +603-2180 5380 Mobile: +6019 368 2493

Email: mohdkhairi.kl@utm.my

DOCTOR OF PHILOSOPHY



UTM Razak School of Engineering and Advanced Technology



UTM Razak School of
Engineering and
Advanced Technology



Doctor of Philosophy

The Doctor of Philosophy (Ph.D) at UTM Razak School of Engineering and Advanced Technology was introduced to complement existing school-based research master's program. This new Ph.D program is a multi-disciplinary research award degree for those who already hold a master's degree (in any field) and who would like to expand and upgrade their knowledge. This program produces human capital, which is not only intellectual and competent in modern and advanced technology but also versatile and capable of handling problems in real-life situations. Successful completion of the program will prove that candidates have successfully completed a course of research training. The Ph.D thesis is expected to make a major contribution to the discipline by way of new knowledge.



How to Apply

Potential students are encouraged to seek further information about the research expertise of academics staff through the UTM Razak School's website, brochures or relevant departments.

- STEP 1** : Select a topic/ research area/ potential supervisor from UTM Razak School (razakschool.utm.my)
- STEP 2** : Prepare a brief research proposal and contact UTM Razak School potential supervisor
- STEP 3** : Prepare application document
- STEP 4** : Lodge an online application to School of Postgraduate Studies (SPS) of UTM at www.sps.utm.my
- STEP 5** : The successful applicant will be informed through email and post by SPS

Entry Requirements

Ph.D

Candidates must have a Master's degree or equivalent from recognized / accredited universities in the relevant disciplines.

English Language Requirement (for international student):

All international students applying to UTM must have a valid two-year old TOEFL or IELTS certificate. Students with a TOEFL score of 550 (or 79 IBT) or an IELTS Band 5.5 will be enrolled in a faculty program without undergoing UTM English Courses.

Courses

1. CORE COURSES

A. University Courses (6 credit - choose 2 ONLY)

● Research Methodology (Compulsory) and choose ONE Only from the list below	3
● Environmental Ethics	3
● Information and Communication Technology Ethics and Society	3
● Dynamics of Leadership	3
● Malaysian Society and Culture (for international students only)	3
● Organizational Behavior and Development	3

B. Programme Courses (9 credit – Compulsory ALL)

● Current Topics in Production and Operations Management	3
● Current Topics in Technology Management	3
● Advanced Financial Analysis	3

2. ELECTIVE COURSES (9 credit - choose 3 ONLY)

● Current Topics in Supply Chain Management	3
● Current Topics in Strategic Management	3
● Current Topics in Project Management	3
● Current Topics in Total Quality Management	3
● Advanced Economic Analysis	3
● Advanced Decision Modeling	3
● Current Topics in Lean Operations	3
● Current Topics in Strategic Market Planning	3
● Current Topics in Design and Accounting for Sustainability	3

3. DISSERTATION

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TOTAL CREDIT 80

Fee

Full Time/ Part-time

	Local	International
● Tuition fee (full time)	RM45,000.00	RM 51,000.00
● Tuition fee (part-time)	RM45,000.00	-
● Registration fee	RM 500.00	RM 4000.00
● Processing fee	RM 20.00	RM 114.00

Personal Bond * RM 1,500.00

* Refundable at the end of study program



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For online application, please log on to www.sps.utm.my
Program Code: ERSAA2CKA

Program Coordinator:
Dr. Rozzeta bt. Dolah
Tel: +603-03 2180 5287 Fax: +603-2180 5422 Mobile: +6017 361 7855
Email: rozzeta.kl@utm.my / razakschool@utm.my

ENGINEERING DOCTORATE (ENGINEERING BUSINESS MANAGEMENT)





Engineering Doctorate (Engineering Business Management)

Our Engineering Doctorate (Eng.D) program is aimed at developing individuals who are able to conduct research at doctoral level and implement innovative solutions in tackling real-life industrial problems which significantly contribute to the business performance of their companies.

The Eng.D is a doctoral-level qualification that is much more industrially focused than the traditional Ph.D program. It combines research in engineering at doctoral level with training in the management innovative solutions in tackling real-life industrial problems which will significantly contribute to the business performance of their companies.



Program Structure

The Eng.D programme consists of two components; taught course modules and research. The number of project aimed at solving real-life industry problems. At the end of the study, the student must submit a thesis and undertake an oral examination (viva). The minimum period of study for candidates with is 3 years (6 semesters). Candidates must achieve a minimum CPA of 3.00 for the taught course modules.



Program Objectives

Produce graduates who acquire and apply engineering business management knowledge that can give impact to the industry and society

Produce expert researchers in the field of engineering management by taking into account the latest knowledge and within the scope of professional practice and integrity

Develop effective and innovative industry leaders in solving real problems and able to make decisions in terms of technical knowledge, business management and organization

Entry Requirements

Master's degree or equivalent in the relevant discipline from a recognized/accredited university, or relevant industrial experiences may be considered as supplement to the entry qualifications

The candidate may either be a fresh graduate or a current employee of an industry related to the field of study

English Requirements (International Students Only)

A minimum IELTS Band 6 or TOEFL score of 550 (or 79 IBT) upon the Master study application made is within two years from the date of the IELTS/TOEFL examination taken.

Courses

1. CORE COURSES

A. University Courses (6 credit)

- Research Methodology (Compulsory) 3

and Choose ONE Only from the list below

- Environmental Ethics 3
- Information and Communication Technology Ethics and Society 3
- Dynamics of Leadership 3
- Malaysian Society and Culture (Int. Students only) 3
- Organizational Behavior and Development 3

B. Program Courses (27 credit – Compulsory ALL)

- Developing, Implementing an OSH System Management 4
- Techniques for Hazard & Risk Management 4
- Safety Engineering 3
- Occupational Health 3
- Emergency Response Planning and Communication 3
- Masters Project I 4
- Masters Project II 6

2. ELECTIVE COURSES (12 credit - choose 4 ONLY)

- Disaster Management and Resilience 3
- Environmental Hazard and Hazardous Waste 3
- Industrial Ergonomics 3
- Major Accident Hazard 3
- Project Management for Sustainable Reconstruction 3
- Forensic Engineering and Investigation 3
- Quality Management and Reliability 3

- Analysis of Occupational Safety & Health Legalisation 3
- Management of Change 3

TOTAL CREDIT 45

Fee

Full Time/ Part-time

PENINSULA MALAYSIA

	Local	International
● Tuition fee	RM 22,000.00	RM 35,000.00
● Registration fee	RM 200.00	RM 500.00
● Processing fee	RM 20.00	RM 114.00

SABAH & SARAWAK

	Local	International
● Tuition fee	RM 26,000.00	-
● Registration fee	RM 200.00	-
● Processing fee	RM 20.00	-



razakschool.utm.my

For online application, please log on to www.sps.utm.my
Program Code: MRSAA1EKA

Program Coordinator:
Dr. Sa'ardin Abdul Aziz

Tel: +603-03 2615 4802 Fax: +603-2180 5380 Mobile: +6019-264 3641
Email: saa.kl@utm.my / razakschool@utm.my

EXECUTIVE MASTER OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT





UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM Razak School of
Engineering and
Advanced Technology



Executive Master Occupational Safety and Health Management (EMOSHM)

The aim of this program is to produce innovative graduates with comprehensive knowledge and competency in managing occupational safety & health management (OSHM) issues including emerging trends and challenges.

A full time and part time, modular-based postgraduate program designed to provide executives with comprehensive philosophical, technical and scientific knowledge required by individuals seeking professional management and administrative positions in the industry. Most suited to those who wish to further their education without having to quit their jobs and to those with an interest to pursue a higher level of qualification in the field of occupational safety and health.



Program Structure

The EMOSHM program is implemented in modular mode, whereby modules are taken sequentially instead of concurrently as in the traditional master program implementation. A total of 45 credits are required for graduation, comprising 11 taught modules of 4 and 3 credits each and a master project worth 10 credits. Master Project consists of Master Project 1 (4 credit hours) and Master Project 2 (6 credit hours) over a period of 2 semesters. The duration of study is 1½ years for full-time and 2½ years for part-time study.

Program Benefits

It is designed together with industrialists for students who are already working in this field with the objectives that graduates will be able to:

- Become an expert in the management and skill of occupational safety and health that able to plan and apply knowledge in various industries.
- Lead and work together as a team and efficient to communicate effectively in the field of occupational safety and health management.
- Execute responsibilities in ethically, professionally by demonstrating the concern to the community, environment and comply the standards of the occupational safety and health management globally.
- Adapt the current knowledge so that it can be adopted into the change of the industrial environment.

Entry Requirements

Academic qualifications for entry into the EMOSHM program is based on UTM School of Graduate Studies regulation and are as follows

For fresh graduate:

- A bachelor degree with honours in Engineering, Technology, Science and Management approved by UTM Senate or equivalent with CGPA 3.00 and above

OR

- An applicant whose CGPA lower than 3.00 with sufficient relevant work experiences can be considered

English Language Requirement (for international student):

All international students applying to UTM must have a valid two-year old TOEFL or IELTS certificate. Students with a TOEFL score of 550 (or 79 IBT) or an IELTS Band 5.5 will be

enrolled in a faculty programme without undergoing UTM English Courses.

Courses

1. CORE COURSES

A. University Courses (6 credit)

Research Methodology (Compulsory) 3

● **and Choose ONE Only from the list below**

Information and Communication Technology 3

● Ethics and Society

Environmental Ethics 3

● Dynamics of Leadership 3

● Malaysian Society & Culture (Int. Students only) 3

● Organizational Behavior and Development 3

● **B. Program Courses (28 credit – Compulsory ALL)**

Strategic Market Planning and Implementation 3

● Strategic Management 3

● Quality Management and Techniques 3

● Financial Analysis 3

● Operations Strategy and Management 3

● Project Management 3

● Masters Project I 4

● Masters Project II 6

● **2. ELECTIVE COURSES (12 credit)**

A. Operation & Technology (choose 3 or 4)

Lean Operations 3

● Supply Chain Management 3

● Logistics Management 3

● Maintenance Management 3

● Integrated Occupational Safety, Health and 3

● Environment Management

Technology Management 3

● Creativity and Innovation Management 3

●

● Robust Product Development 3

● Decision Modeling 3

● Simulation of Systems 3

● Applied Statistical Methods 3

● Information Systems Strategy for EBM 3

● Engineering Informatics 3

● Blue Ocean Strategy 3

● Mechatronic System Design 3

● Special Topics 3

B. Business and Management Elective Modules (Not necessary or Choose 1 ONLY)

● Economic Analysis for Technology 3

● Human Resource Management 3

● International Business Environment and Operation 3

● Entrepreneurship and New Venture Creation 3

● Legal Aspects of Business 3

● Design and Accounting for Sustainability 3

TOTAL CREDIT 46

Fee The fee covers tuition, teaching materials and meals during class session. The fee does not include accommodation, travel and other expenses

Full Time/ Part-time

	Local	International
● MEBM Tuition fee	RM 22,000.00	RM 32,000.00
● MEBM + MBA Tuition fee	RM 32,000.00	RM 42,000.00
● Registration fee	RM 300.00	RM 300.00
● Processing fee	RM 20.00	RM 114.00

● **Meals provided**



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For online application, please log on to www.sps.utm.my
Program Code: MRSEA1CKA/ BD/ HA

Program Coordinator:
Dr. Nor Raihana Mohd Ali
Tel: +603- 2615 4584 Fax: +603-2180 5380
Email: raihana.ki@utm.my



MASTER OF SCIENCE

(ENGINEERING BUSINESS MANAGEMENT)





UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM Razak School of
Engineering and
Advanced Technology



Master of Science (Engineering Business Management)

The Master of Science (Engineering Business Management) is an integrated program that offers essential management and business skills as well as in technology and operations, provide opportunities for continuous education and enhancing knowledge in engineering.

The MSc (EBM) program takes an application focus so that participants can directly contribute to immediately add values to their employers, and industry in general. This program aims to prepare working professionals in the engineering and other professions in engineering or technical based organizations working for transition into senior executive positions or engineering (or other professional) management roles and to prepare for life-long learning.

International Double Masters Program (UTM AND MEIJI UNIVERSITY)

The Double Master Program with MEIJI University Japan is the first joint program between UTM Razak School of Engineering and Advanced Technology and a Japanese University. This program offers the opportunity for participants who want to pursue Double Masters in Engineering Business Management (EBM) and Master of Business Administration (MBA) simultaneously. Participants can register with the EBM program and the credits can be transferred to Meiji MBA program. UTM will award Master of Science (Engineering Business Management) and Meiji University will award an MBA. The number of admissions to the Double Masters program is subject to passing the interview and approval from Meiji University. Meiji University reserves the right to limit the number of EBM participants enrolling in its MBA program for administrative reasons.

Program Structure

The MEBM program is implemented in modular mode, whereby courses are taken sequentially instead of concurrently as in the traditional master program implementation. A total of **46** credits are required for graduation, comprising 12 taught courses of 3 credits each and a master project worth 10 credits. The duration of study is 1½ years for full-time and 2 years for part-time study. The elective modules are divided into 2 groups; Operations & Technology and Business & Management. Students must take at least three modules from the Operations and Technology Electives, Master Project consists of Master Project 1 (4 credit hours) and Master Project 2 (6 credit hours) over a period of 2 semesters.

OR

(ii) An applicant whose CGPA lower than 3.00 with sufficient relevant work experiences can be considered

English Language Requirement (for international student):

All international students applying to UTM must have a valid two-year old TOEFL or IELTS certificate. Students with a TOEFL score of 550 (or 79 IBT) or an

IELTS Band 5.5 will be enrolled in a faculty program without undergoing UTM English Courses.

Entry Requirements

Academic qualifications for entry into the MSc(EBM) program is based on UTM School of Graduate Studies regulation and are as follows:

For fresh graduate:

(i) A bachelor degree with honours in Engineering, Technology, Science, Management, Business or Accounting approved by UTM Senate or equivalent with CGPA 3.00 and above



NANOPHYSICS

● Nanostructures & Nanotechnology	3
● Methods of Experimental Physics	3
● Characterization & Fabrication at the Nanoscale	3
● Material Science	3

APPLIED CHEMISTRY

● Advanced Materials Chemistry	3
● Nano-Chemistry	3
● Consumer Chemistry	3
● Green Chemistry	3

2. ELECTIVE COURSES (9 credit - choose 3 ONLY)

A. MANAGEMENT ELECTIVES

● Industrial Relations and Employment Law	3
● Strategic Management for Professionals	3
● Quality Management	3
● Creative Thinking and Problem Solving	3
● Human Resource Development	3
● Management of Change	3
● Financial Management	3
● Sustainable Development & Environmental Management	3

B. SCIENCE ELECTIVES

● Modern Physics for Innovation	3
● Advanced Statistical Methods	3
● Advanced Nanostructures & Nanotechnology	3
● Simulation in Professional Science	3
● Multivariate Analysis	3
● Supply Chain Modelling	3
● Instrumental Analysis	3
● Computational Chemistry	3

TOTAL CREDIT 46

Fee

Full Time/ Part-time

	Local	International
● Tuition fee (Full time)	RM18,000.00	RM 28,000.00
● Tuition fee (Part-time)	RM22,000.00	-
● Registration fee	RM 300.00	RM 300.00
● Processing fee	RM 20.00	RM 114.00



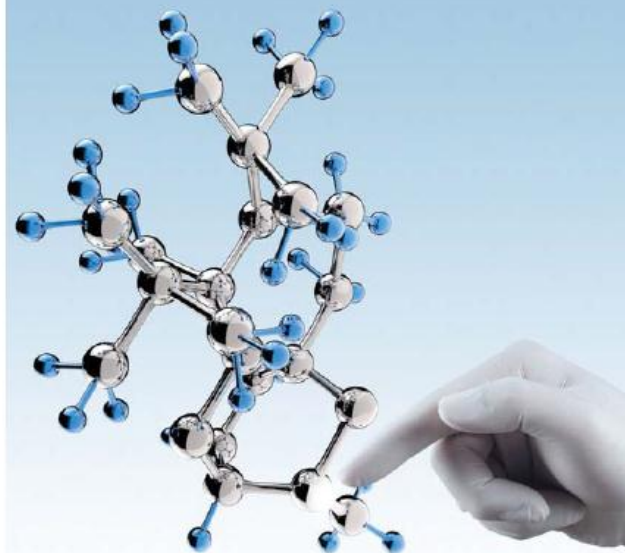
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For online application, please log on to www.sps.utm.my
Program Code: MRSQA1CKA/ KM

Program Coordinator:
Dr. Sharifah Alwiah bt. Syed Abd. Rahman
Tel: +603 2203 1366 Fax: +603-2180 5380 Mobile: +6013-340 5647
Email: shalwiah.kl@utm.my

Panel of Science
Dr. Norzaida Abas
Tel: +603- 03 2180 5229
Email: zaida.kl@utm.my

MASTER OF PROFESSIONAL SCIENCE





UTM
UNIVERSITI TEKNOLOGI MALAYSIA

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Engineering and
Advanced Technology



Program Objectives

Objectives of the program include producing:

- Graduates who are able to manage and develop a more competitive organization locally and globally using the knowledge of science, management and other relevant areas of study.
- Graduates who can lead and communicate effectively with co-workers and workers from other organizations at various levels of organization.
- Graduates who carry out their work responsibly with professional ethics and showing concern for society and the environment with appreciation of global perspectives.
- Graduates who are able to improve their knowledge and develop their skills through practice of life-long learning.

Master of Professional Science

The Master of Professional Sciences is an innovative and multidisciplinary program designed for candidates who want to expand their scientific knowledge whilst acquiring management skills to support their professional development. Universiti Teknologi Malaysia is the first universiti in the nation to offer this special program that bridges between science and management which will enhance workforce preparation. The degree will advanced your knowledge in your basic sciences grounding by the choice of the latest advancement in your field of study. To equip you for an effective future role in industry or organization, a wide exposure and training in management with some business element will complement the scientific component.

Entry Requirements

A Bachelor's degree in Science/ Mathematics/ Engineering or Technology with minimum CGPA of 3.0 from UTM or any other accredited institutions of higher learning recognized by the Senate of the University International applicants are required to obtain a minimum IELTS Band 5.5 or TOEFL score of 550 (or 79 IBT), valid for 2 years from the date of the test to the date of commencement at UTM.

Courses

1. CORE COURSES

A. University Courses (6 credit)

- Research Methodology (Compulsory) 3

and Choose ONE Only from the list below

- Environmental Ethics 3
- Information and Communication Technology Ethics and Society 3
- Dynamics of Leadership 3
- Malaysian Society and Culture (Int. Students only) 3
- Organizational Behavior and Development 3

B. Program Courses (31 credit)

- Masters Project I 4
- Masters Project II 6

MANAGEMENT CORE (Compulsory)

- Management for Professionals 3
- Human Resource Management for Professional 3
- Entrepreneurship and New Business Creation 3

SCIENCE CORE (Choose ONE Specialization)

APPLIED MATHEMATICS

- Mathematical Modeling in Science and Management 3
- Computational Methods for Professionals 3
- Numerical Differential Equations 3
- Statistical Methods for Professionals 3

OPERATION RESEARCH

- Decision Analysis for Professionals 3
- Linear & Non-Linear Programming 3
- Operations Research for Professionals 3
- Management Information Systems 3

B. INDUSTRIAL SYSTEM

● Ergonomic and Human Factor Engineering	3
● Lean Operations	3
● Supply Chain Management	3
● Maintenance Management	3
● Project Management	3
● Decision Modelling	3

C. ELECTRONIC SYSTEM

● Nanoelectronics Devices	3
● IC Testing	3
● Advanced Digital Systems Design	3
● Random Process	3
● Image Processing	3
● Software Engineering	3

D. INTELLIGENT SYSTEM

● Intelligent Systems	3
● Human-Computer Interaction Design	3
● Biometrics	3
● Advanced Sensor Systems	3
● Ubiquitous Computing	3
● Intelligent Data Analysis	3

E. COMMUNICATION SYSTEM

● Communication and Computer Network	3
● Broadband Multimedia Network	3
● Optical Communications	3
● Wireless Communications Systems	3
● Special Topic in Telecommunication Engineering	3
● Advanced Communications Electronics	3

TOTAL CREDIT **46**

Fee

Full Time/ Part-time

	Local	International
● Tuition fee (Full time)	RM16,500.00	RM 30,000.00
● Tuition fee (Part-time)	RM16,500.00	RM 30,000.00
● Registration fee	RM 350.00	RM 350.00
● Processing fee	RM 20.00	RM 114.00

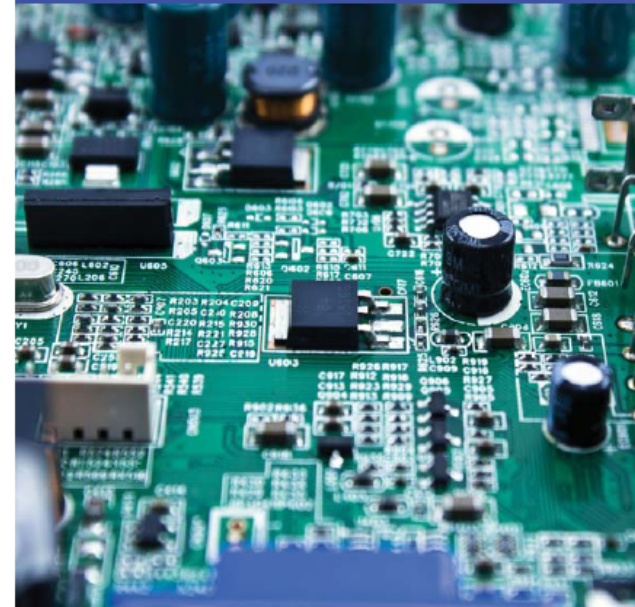


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For online application, please log on to www.sps.utm.my
Program Code: MRSLA1CKA

Program Coordinator:
Dr. Siti Zura Binti A Jalil @ Zainuddin
Tel: +603-2615 4718 Fax: +603-2180 5380
Email: sitizura.kl@utm.my / razakschool@utm.my

MASTER OF SCIENCE (SYSTEMS ENGINEERING)





UTM Razak School of
Engineering and
Advanced Technology



MSc. Systems Engineering Introduction

UTM Razak School of Engineering and Advanced Technology offers outstanding master of science program for working adults or fresh degree students who want to enhance their engineering system knowledge and to gain additional skills in career towards the challenging world. Our program is one of the leading engineering system programs in the country, and our students pursue exciting learning and sharing knowledge in a vibrant campus.

Our program is designed to combine rigorous and in-depth fundamental of engineering system with flexibility to select specialisation from five main engineering fields: communication system, electronic system, industrial system, intelligent system and power system. Be part of our forefront master science program in the engineering system that fulfills the industrial demands.

Courses

1. CORE COURSES

A. University Courses (6 credit)

- Research Methodology (Compulsory) 3

and Choose ONE Only from the list below

- Environmental Ethics 3
- Information and Communication Technology Ethics and Society 3
- Dynamics of Leadership 3
- Malaysian Society and Culture (Int. Students only) 3
- Organizational Behavior and Development 3

B. Program Courses (28 credit - Compulsory ALL)

- System Engineering and Analysis 3
- Engineering Management, Safety and Economy 3
- Systems Optimization and Analysis for Operations 3
- Data Analysis for System Engineering 3
- Entrepreneurship for Scientists and Engineers 3
- Scientific Computing for System Engineer 3
- Masters Project I 4
- Masters Project II 6

2. ELECTIVE COURSES (12 credit - choose 4 ONLY)

A. POWER SYSTEM

- Power Electronics System 3
- Power Quality 3
- Power System Analysis 3
- Power System Apparatuses and Devices 3
- Integrated Resources Planning in Energy Sector 3
- Alternative Energy Technology Systems 3

Entry Requirement

A Bachelor's degree in Engineering or Technology with minimum CGPA 3.0 of Electrical, Electronics, Mechanical, Manufacturing, Computer or any other relevant disciplines that are recognised by the UTM Senate. Applicants with a Bachelor's degree in Physics can be considered.

For those having below CGPA 3.0, a minimum of 2 years working experience is required.

English Requirements (International Students Only).

A minimum IELTS Band 6 or TOEFL score of 550 (or 79 IBT) upon the Master study application made is within two years from the date of the IELTS/TOEFL examination taken.



Fields 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 Modelling, Instrumentation and Control, Aeronautic Engineering and Fluid Mechanics, Maintenance Engineering and Condition Monitoring.

ELECTRICAL AND COMPUTER ENGINEERING

Biosignal and Image Processing, Telematics and Wireless Network, Computer Networking, Broadband Multimedia, Photonics and Fiber Optics System, Power and Control System, Artificial Intelligent and Pattern Recognition.

CIVIL ENGINEERING

Structural Mechanics and Analysis, Concrete and Precast, Construction Management, Project Management, Building Infrastructure, Procurement Management, Contract Management, Performance Benchmarking, Groundwater Engineering, Surface Water Hydrology, Fluid Mechanics, Hydraulics and Hydrology, Water Resources Engineering and Management, Water Quality, Offshore Structure and Analysis, Environmental Engineering, Water and Wastewater Treatment, Environmental Management, Solid Waste Management, EIA, LCA, Geospatial Intelligent, LIDAR, Remote Sensing, GIS, Geomorphology, Hydrographic Surveying, Marine Mapping

SCIENCES

Semiconductor Physics, Nanostructure, Thin Film, Superconductivity, Statistical Modelling in Hydrology, Extreme Rainfall Analysis and Modelling, Statistical Downscaling with respect to Climate change, Spatio-Temporal Modeling in Hydrology, Applied Statistics, Wave Mechanics, Graph Theory Application Model, Location System, Computational Maths, Mathematic Education, Mathematical Thinking, Education and Training at Workplace, Mathematic at the Workplace, Assessment of Learning, Curriculum Development, Adult Learning.

SOSIAL SCIENCES

Land Economics, Retail Marketing, Halal Trading, Foreign Language Education, Comprehension, Language Learning & Teaching, ESL, ELT, Educational Psychology, Human Resource Development, Information Technology Management, Management Information Systems, Ethics in Computing, Decision Support Systems, Organizational Behaviour, Training and Development, Workplace Learning, Organizational

Development and Change, Career Development, Staffing and Recruitment, Performance Management, Organizational / Managerial Communication.

INDUSTRIAL DESIGN

Design Thinking, Product Strategic Planning/Services Design Innovation, Design Aesthetics, Human Emotion.

Courses

1. CORE COURSES

A. University Courses (3 credit)

- Research Methodology (Compulsory) and choose **ONE** Only *from the list below*
- Environmental Ethics 3
- Information and Communication Technology Ethics and Society 3
- Dynamics of Leadership 3
- Malaysian Society and Culture (for international students only) 3
- Organizational Behavior and Development 3

Fee

MPhil

	Local	International
● Tuition fee (full time)	RM 8,010.00	RM 18,735.00
● Tuition fee (part time)	RM 7,230.00	-
● Processing fee	RM 20.00	RM 114.00



razakschool@utm.my

For online application, please log on to www.sps.utm.my
Program Code: MRSGA3AKA / MRSBA3AKA (Industrial Design)

Program Coordinator:

Dr. Nelidya Md Yusoff

Tel: +603-03 2615 4859 Fax: +603-2180 5380 Mobile: +6012 699 8806

Email: nelidya.kl@utm.my / razakschool@utm.my

MASTER OF PHILOSOPHY



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM Razak School of Engineering and Advanced Technology



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM Razak School of
Engineering and
Advanced Technology



Master of Philosophy (M.Phil)

The Master of Philosophy (M.Phil) offered at UTM Razak School of Engineering and Advanced Technology is a research award degree program for those holding a Bachelor's degree (in any field) who would like to expand and upgrade their knowledge.

This multi-disciplinary program assists candidates to develop skills in high level analysis and presentation, as well as integrate academic and professional concerns. Successful completion of the program will indicate that candidates have successfully completed a course of research training. The M.Phil thesis is expected to make an invaluable contribution of new knowledge or to existing body of knowledge in the field.



Master of Philosophy in Industrial Design

The Master of Philosophy in Industrial Design program is a full time research program that puts emphasis on a systematic approach to product development. The program is problem-oriented, creative and innovative with the objective to produce graduates with critical and independent thinks skills who would later become industrial designers capable of independently solving problems.



Entry Requirements

MPhil

A bachelor degree from UTM, or another tertiary education institution approved by the UTM Senate;

OR

An applicant whose qualifications are of a lower standard may be admitted if evidence of an adequate academic background and experience

in an appropriate field can be shown; AND

- Sufficient relevant experience; AND
- Pass an interview session to clarify relevance of previous study and/or experience, if required by UTM Razak School.

M.Phil in Industrial Design:

Bachelor of Science in Industrial Design with minimum GPA of 2.5 or other entry requirements as stipulated by the Graduate School.

English Language Requirement (for international student):

All international students applying to UTM must have a valid two-year old TOEFL or IELTS certificate. Students with a TOEFL score of 550 (or 79 IBT) or an IELTS Band 5.5 will be enrolled in a faculty program without undergoing UTM English Courses.

Courses

1. CORE COURSES (18 credits – Compulsory)

● Engineering Design Optimization	3
● Technovation Management	3
● Engineering Design Process & Methodology	3
● Materials Selection and Manufacturing Process	3
● Computer Aided Design (CAD) / Computer Aided Engineering (CAE)	3
● Creativity and Innovation Management	3

2. ELECTIVE COURSES - Design of Mechanical System (12 credit – Choose 4)

● Automotive Engineering Design	3
● Design for Reliability	3
● Fluid Power	3
● New Product Development	3
● Mechatronics System Design	3
● Metrology and Measurement	3
● Special Topic	3

3. ELECTIVE COURSES - Product Design (12 credit – Choose 4)

● Life Cycle Cost Analysis for Engineers	3
● Design for Sustainability, Manufacturing and Assembly	
● Entrepreneurship and Marketing	3
● Theory of Inventive Problem Solving (TRIZ)	3
● Robust Product Design	
● Industrial Design & Human Factors	3
● Special Topic	3

University Courses (6 credit)

● Research Methodology	3
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and Choose ONE Only from the list below

● Environmental Ethics	3
● Information and Communication Technology Ethics and Society	3

● Seminar on Global Development, Economy and Social Issues	3
● Philosophy of Science and Social Development	3
● Dynamics of Leadership	3
● Malaysian Society and Culture	3
● Malay Language for Postgraduates	3
● Organizational Behavior and Development	3
● IT Project Management	4
● Japanese Language	6

MASTER PROJECT

Masters Project 1	4
Masters Project 2	6

TOTAL CREDIT 46

Fee

Full Time/ Part-time

	Local	International
Processing fee (Non-refundable)	RM 20.00	RM 114.00
Registration fee (Non-refundable)	RM 300.00	RM 4,000.00
Programme fee* (Subject to change)	RM 19,890.00	RM 32,000.00

● Meals provided

Scholarship and Financial Aids

Student can obtain financial assistance from:

- (1) My Brain 15: (<https://biasiswa.moe.gov.my/MyBrain15>)
- (2) PTPN: (<http://www.ptpn.gov.my/web/guest/pinjaman>)
- (3) MARA (<http://www.mara.gov.my/web/guest/biasiswa/-/pinjaman-pelajaran>).

Student can also withdraw EPF savings. UTM will issue a support letter once the offer letter to the student has been issued by the School of Graduate Studies.



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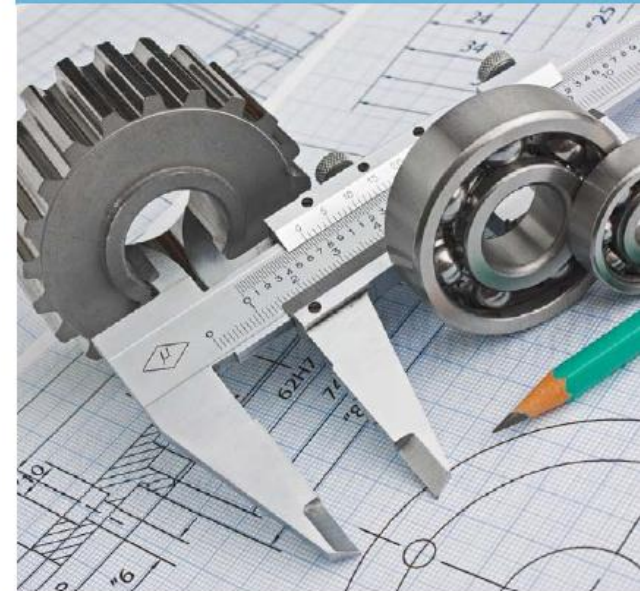
For online application, please log on to www.sps.utm.my

Program Coordinator:
Dr. Shamsul Sarip

Tel: +603-2180 5143 Fax: +603-2180 5380 Mobile: +6011-3208 5900
Email: shamsuls.kl@utm.my

MASTER OF SCIENCE

(ENGINEERING DESIGN)



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM Razak School of Engineering and Advanced Technology



UTM Razak School of
Engineering and
Advanced Technology



Master of Science (Engineering Design)

The Master of Science (Engineering Design) provide an opportunity for graduates of science background in Bachelor of Engineering, Bachelor of Technology and Bachelor of Science. The program provides methods, models and tools for mechanical product design and industrial design management system. The MSED program is implemented in modular mode, whereby modules are taken sequentially instead of concurrently as in the traditional master programme implementation. A total of 46 credits are required for graduation, comprising 12 taught modules of 3 credits each and a master project worth 10 credits. The duration of study is 1½ years for full-time and 2 years for part-time study. This programme aims to prepare working professionals in the engineering and other professions in engineering or technology based organizations working for transition into senior executive positions or engineering (or other professional) management roles and to prepare for life-long learning.

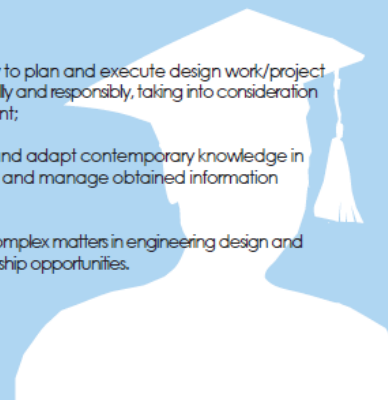
Program Objectives

Produce graduates who are able to:

- Demonstrate the engineering design knowledge obtained from this program when creating innovative solutions to industry-related problems.
- Exhibit effective communication skill among multi-disciplinary team members.
- Uphold professional ethics when executing responsibilities and taking into account society, environment and global issues.
- Enhance related knowledge in engineering design via sound information management and life-long learning.

Program Outcomes

- (1) Ability to integrate and generate advanced engineering design knowledge to develop or create innovative product and process solution in a new situation or context;
- (2) Ability to analyze and evaluate problems critically and provide solutions through the use of appropriate tool and techniques;
- (3) Ability to assess situation and to communicate effectively in relation to research outcome, knowledge and give suggestion rationally to peers and experts in related area as well as to lead and work in team;
- (4) Demonstrate Ability to plan and execute design work/project professionally, ethically and responsibly, taking into consideration and the environment;
- (5) Ability to organize and adapt contemporary knowledge in engineering design and manage obtained information effectively;
- (6) Ability to manage complex matters in engineering design and identify entrepreneurship opportunities.



Entry Requirements

• General University Requirements:

Bachelor's Degree (Honours) with minimum CPA 3.00/4.00 in the relevant field or equivalent from a recognized university. Basic conditions of entry is referring to the Evaluation Guidelines Admission 1998 Pind.1/2013.

• Faculty's Requirement:

Admission requirements are as specified by the School of Graduate Studies. Additional conditions are Master's

Degree in the relevant field recognized by the Senate of UTM with honors or equivalent.

(i) Bachelor of Science/Engineering in the field of Engineering and Technology in the discipline of Electrical, Electronic, Mechanical, Manufacturing, Computer or equivalent with Honor that is approved by UTM Senate or equivalent with CGPA 3.00 and above
OR

(ii) For those with lower first degree qualification must have at least two years working experience in the related field with minimum CPA of 2.70/4.00 or four years working experience in the related field with minimum CPA of 2.50/4.00

• English Language Requirement (for international student):

All international students applying to UTM must have a valid two-year old TOEFL or IELTS certificate. Students with a TOEFL score of 550 (or 79 IBT) or an IELTS Band 6 will be enrolled in a faculty programme without undergoing UTM English Courses.

Starting from Semester II/2010/2011, students who applied for Master or PhD programme - Teaching English as a Second Language, must have a valid two-year certificate of TOEFL with a score of 600 and above or IELTS Band 7 and above (or IBT/CBT equivalent).

Courses

1. CORE COURSES (8 credits – Compulsory)

● Sustainable Building Technology	3
● Sustainable Infrastructure in Practice	3
● Sustainable Infrastructure Policy and Legislation	3
● Services and Maintenance of Infrastructure Assets	3
● Sustainable Water and Energy Saving	3
● Sustainable Transportation, Road and Bridge	3

2. ELECTIVE COURSES (12 credit – Choose 4)

● Engineering Stakeholder Management	3
● Waste Management and Recycling	3
● Soil and Slope Sustainability	3
● Coastal Infrastructure Maintenance	3
● Service Life Planning and Asset Management	3
● Conservation and Urban Regeneration	3
● Contextual Leadership	3
● Human Asset Management	3
● Urban Studies	3
● Sustainable Design and Construction	3
● Sustainable Development and Environmental Engineering	3

UNIVERSITY COURSE (6 Credit – Choose 2 including Research Methodology)

● Research Methodology	3
● Seminar on Global Development, Economic and Social Issues	3
● Malaysian Society and Culture	3
● Environmental Ethics	3
● Information and Communication Technology Ethics and Society	3
● Philosophy of Science and Civilization	3
● Dynamics of Leadership	3
● Malay Language for Postgraduates	3

● Organizational Behavior and Development	3
● IT Project Management	3
● Japanese Language	3

MASTER PROJECT (10 credit)

● Master Project 1	4
● Master Project 2	6

TOTAL CREDIT 46

Fee

Full Time / Part-time

	Local	International
● Processing fee (Non-refundable)	RM 20.00	RM 114.00
● Registration fee (Non-refundable)	RM 300.00	RM 4,000.00
● Programme fee* (Subject to change)	RM 19,800.00	RM 32,000.00

● Meals provided

Scholarship and Financial Aids

Student can obtain financial assistance from:

- (1) My Brain 15: (<https://biasiswa.moe.gov.my/MyBrain15>)
- (2) PTPTN: (<http://www.ptptn.gov.my/web/guest/pinjaman>)
- (3) MARA (<http://www.mara.gov.my/web/guest/biasiswa/-/pinjaman-pelajaran>).

Student can also withdraw EPF savings. UTM will issue a support letter once the offer letter to the student has been issued



razakschool.utm.my

For online application, please log on to www.sps.utm.my

Program Coordinator:
Dr. Nor Fazilah Mohd Hashim
Tel: +603- 2615 4654 Fax: +603-2180 5380
Email: fazilah.kl@utm.my

MASTER OF SCIENCE

(SUSTAINABLE INFRASTRUCTURE)

NEW PROGRAMME START SEPTEMBER 2016



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM Razak School of Engineering and Advanced Technology



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM Razak School of
Engineering and
Advanced Technology



Master of Science (Sustainable Infrastructure)

Master of Science (Sustainable Infrastructure) or in short, MSSI, is a programme that offers substantial knowledge for graduate and professional in engineering, science and technology background as well as opportunities for further updating and enhancing current knowledge in sustainable infrastructure. This programme is an application and industrial-driven, where participants can directly add value to their employers and industry in general via the lectures delivered by experienced industrial speakers in the area of sustainable infrastructure throughout the modules. A total of 46 credits is required for graduation, comprising 12 taught modules of 3 credits each and a master project worth 10 credits. The duration of study is 1½ years for full-time and 2 years for part-time study. This programme aims to prepare professionals in the engineering, science and technology-based organisations working for transition into senior executive positions or senior engineering (or other professional) management roles towards the preparation of life-long learning.

Program Objectives

This programme aims at providing rooms for knowledge advancement to graduate and professional of Bachelor of Engineering, Technology or Science backgrounds, be it those with vast working experience or those who recently graduated. This programme is specifically designed to ensure that the graduate is kept up-to-date with the current development of sustainable infrastructure in enhancing knowledge and skills in their career. The objectives of this programme include producing graduates who are able to:

- (i) Manage the development of project organisation related to sustainable infrastructure by applying the advance knowledge and skill in facilitating the local and international sectors.
- (ii) Lead and simultaneously work as a team and communicate effectively in verbal and oral in the field of sustainable infrastructure.

- (iii) Carry out responsibilities competently, effectively, innovatively, professionally and ethically while demonstrating the creativity, sensitivity and academic ability in confronting issues related to sustainable infrastructure.
- (iv) Apply the current knowledge on the impact of sustainable infrastructure from time to time extensively, globally and innovatively throughout the life-long learning

sustainable solutions and effective infrastructure technology by choosing the appropriate techniques and skills

- (3) Assess the situation and act with responsibility, either as leader or member of the group, and to communicate effectively orally and in writing to the professionals, industry and the public
- (4) Adapting the best practices and comply with the law, the code of professional ethics, and key stakeholders needs on the importance of the environment and society
- (5) Manage and adapt knowledge and information effectively through lifelong learning to support organisational, career and personal development
- (6) Identify and strategise entrepreneur opportunities in sustainable infrastructure development through new knowledge

Program Outcomes

- (1) Integrate and build in-depth knowledge of the concepts and techniques of sustainable infrastructure and its impact on the future nation development
- (2) Critically analyse the problem of relationship between

Entry Requirements

• **General University Requirements:**

Basic conditions of entry is referring to the Evaluation Guidelines Admission 1998 Pind.1/2013.

• **Faculty's Requirement:**

Admission requirements are as specified by the School of Graduate Studies. Additional conditions

are Bachelor's Degree (Honours) in the engineering and technology field recognised by the Senate of UTM with minimum CGPA 3.00.

OR

a) Bachelor's Degree (Honours) in applied and pure science with minimum CGPA \geq 3.00, an applicant must pass an interview.

OR

b) An applicant who has lower academic achievement, but with work experience in related field will be considered.

• **English Language Requirement (for international student):**

All international students applying to UTM must have a valid two-year old TOEFL or IELTS certificate. Students with a TOEFL score of 550 (or 79 IBT) or an IELTS Band 6 will be enrolled in a faculty programme without undergoing UTM English Courses.

Courses

1. CORE COURSES

A. University Courses (9 credit)

- Research Methodology (Compulsory) 3

and Choose TWO Only from the list below

- Environmental Ethics 3
- Information and Communication Technology Ethics and Society 3
- Dynamics of Leadership 3
- Philosophy of Science and Social Development 3
- Organizational Behavior and Development 3

B. Program Courses (24 credit – Compulsory ALL)

- Urban Dynamics and Regeneration Studio 5
- Sustainable Urban Landscape Design Studio 5
- Urban Design Theory and Method 4
- Masters Project I 4
- Masters Project II 6

2. ELECTIVE COURSES (12 credit - choose 4 ONLY)

- Sustainable Urban Form and Quality 3
- Sustainable Urban Landscape Design 3
- Urban Dynamics and Regeneration 3
- Urban Studies 3
- Sustainable Design and Construction 3
- Universal Design 3
- Sustainable Housing Development 3
- Sustainable Development and Environmental Engineering 3

TOTAL CREDIT 45

Fee

Full Time/ Part-time

	Local	International
● Tuition fee	RM15,216.00	RM 25,215.00
● Registration fee	RM 300.00	RM 300.00
● Processing fee	RM 20.00	RM 114.00

* subject to change

Careers

Full Time/ Part-time

Graduates can seek employment in urban design related jobs within the architectural, town planning and landscape architecture practices; their employers ranging from private consultancies, developers, local authorities and other government agencies involve with planning, development and policy making. This program will provide students with various urban design skills and knowledge to interpret current policies into design solutions as well as abilities to formulate briefs and guidelines to meet the work demand from employers. The program will ensure people from the different background have the ability to interpret the sustainable development agenda into their urban design works.



razakschool.utm.my

For online application, please log on to www.sps.utm.my
Program Code: MRSLA1CKA

Program Coordinator:
Dr. Mohammad Hussaini Wahab
Tel: +603 2203 1360 Fax: +603 2180 5380
Mobile: +6017 324 5899
Email: hussaini.kl@utm.my

MASTER OF SCIENCE

(SUSTAINABLE URBAN DESIGN)



UTM Razak School of Engineering and Advanced Technology



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM Razak School of
Engineering and
Advanced Technology



Master of Science (Sustainable Urban Design)

Master of Science (Sustainable Urban Design) is the only innovation-focused master-by-coursework program in Malaysia that addresses current local & global sustainable issues in the built environment. The program assimilates the diverse areas of sustainable development and urban design by collaborating with the allied professionals as well as local and international university partners.

The program is offered in both full-time and part-time modes, designed to provide philosophical, technical and scientific knowledge required in achieving innovative sustainable urban design. This program is offered at UTM Razak School of Engineering and Advanced Technology, UTM Kuala Lumpur, strategically located in the heart of Kuala Lumpur city centre.



Program Structure

- The program is offered on a full-time basis (3 semesters i.e. 18 months) and part-time basis (6 semesters i.e 36 months).
- There are 5 core courses, 4 electives and 3 university courses with a total credit of 45.
- Coursework is assessed via studio projects, master's projects, assignments, and case studies. Only 1 core course is assessed by final examinations and assignments.

Studio projects are conducted in a small group and will focus on giving students the skill to analyse the urban design problems, synthesise primary and secondary data and apply the urban design theories in a creative manner to address the issues given. Drawing ability is not compulsory rather a bonus.

- Course outlines, course materials and academic consultation are available to students at all time.
- Courses are taught by UTM staffs and invited speakers from other universities and the professionals in practice.
- Courses are conducted using two different time mode, i.e. evening classes (3 evening classes per week : 6pm-11pm) or weekend classes (conducted on Saturdays and Sundays). The time mode conducted will depend on the mode preferred by a majority of the students.
- International collaboration with other university partners is conducted through academic trips for joint projects/design workshops and case studies that will form part of the assessments.

Entry Requirements

A Bachelor Degree in Architecture, Urban and Regional Planning or Landscape Architecture with CGPA 3.0 and above, from UTM, or other institutions approved by the UTM Senate. For those having below CGPA 3.0, a minimum of 2 years industrial experience is required.

OR;

A Bachelor Degree in any other related fields from UTM, or other institutions approved by the UTM Senate, with a minimum of 2 years of industrial experiences.

AND;

Passing an interview session if required. International candidates shall fulfill the English language proficiency requirement as outlined in the Academic Regulations of UTM School of Graduate Studies.

English Language Requirement (for international student):

All international students applying to UTM must have a valid two-year old TOEFL or IELTS certificate. Students with a TOEFL score of 550 (or 79 IBT) or an IELTS Band 5.5 will be enrolled in a faculty program without undergoing UTM English Courses.

For More Information

Go to

<http://razakschool.utm.my/>

<http://sps.utm.my/>

T H A N K

Y O U

