

POSTGRADUATE  
PROSPECTUS  
2015/2016

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# FOREWORD



## FOREWORD BY THE VICE CHANCELLOR

First and foremost, all praise to Allah, the Almighty and the Benevolent for His blessing, has allowed us, once again to publish the Postgraduate Prospectus for 2014/2015 edition. Let me take this opportunity to wish all readers a warm welcome to Universiti Teknikal Malaysia Melaka (UTeM), the first Technical Public University in Malaysia. As a Focus University, UTeM's strengths are in the engineering and technology programmes comprising of several fields of Engineering, Engineering Technology, Information Technology, Technology Management and Technopreneurship.

Over the years, UTeM has built a reputation as the source of highly skilled engineering and technology graduates with the capability of meeting the requirements of strategic industries and SMEs. UTeM has also established research competencies in focused areas that have been identified as the key to enhancing the University's unique disposition and supporting the nation's inclination towards Green Technology, Systems Engineering, Human-Technology Interaction and Emerging Technology.

As Malaysia gears towards the status of a developed country in 2020, UTeM strives its best to generate a conducive academic environment that will facilitate the development of highly competent and creative graduates. Besides leveraging on internal resources, UTeM has also formed several strategic alliances with industries and higher educational institutions, both locally and abroad.

Partnership with the government agencies, business and industry players are sealed in many forms such as through scholarships and prizes, research funding and collaborations, consultancies, product testing and development and staff training.

UTeM Main Campus covers a land area of more than 725 acres in the edge of the bustling historical city of Melaka. Located in three (3) campuses namely the Main Campus, Technology Campus and City Campus, the students, staff and visitors enjoy a peaceful, eco-friendly environment, with easy proximity to one of the state's fastest-growing metropolitan areas. The campus features a thoughtful balance of buildings and lush greeneries. The campus offers students excellent and modern facilities as an opportunity for students to interact with one another as well as to explore and exchange ideas of mutual interests. Learning experience at UTeM extends far beyond the parameters of lecture rooms and laboratories. At UTeM we are committed to strive towards excellence in line with our tagline "Always a Pioneer, Always Ahead".

**Prof. Datuk Dr. Shahrin bin Sahib**  
Vice Chancellor  
Universiti Teknikal Malaysia Melaka

## FOREWORD BY THE DEAN

Universiti Teknikal Malaysia Melaka (UTeM) is acclaimed as the first Technical Public University set within a beautifully landscaped campus located 20km from the historical city of Melaka. There are seven faculties and one institute covering the areas of Electrical Engineering, Electronics and Computer Engineering, Mechanical Engineering, Manufacturing Engineering, Information and Communication Technology, Technology Management and Technopreneurship and Engineering Technology.

The graduate study programmes at UTeM provides unique and challenging opportunities for fresh graduates as well as those who are employed to seek and broaden their knowledge in the various engineering, information and communication technology as well as technology management. Designed within the framework of the requirements of the Malaysian Qualification Agency, the programmes will equip the students with the necessary engineering and technical knowledge and skills, complemented with adequate exposure in the management and entrepreneurial topics. This would enable them to become competent professionals adaptive to the fast evolving and competitive business world.

Trained (mostly with PhD qualifications) and experienced staff will facilitate the teaching and learning processes as well as the supervision of research work. The equipment and machinery, and ICT facilities available at the university will adequately support the research and innovation activities that are featured in the various graduate programmes.

Students and staff of UTeM come from countries with different ethnic and cultural backgrounds, all working amicably in a conducive teaching and learning environment. The Centre for Graduate Studies will enhance this 'global' educational environment with educational and recreational activities that can bring students together.

The prospectus provides a concise compilation of information on graduate study opportunities available at UTeM that will interest prospective students. Please take the time to visit our website at [www.utem.edu.my](http://www.utem.edu.my) for more information.

**Assoc. Prof. Dr. Zulkiflie Bin Ibrahim**  
Dean, Centre for Graduate Studies  
Universiti Teknikal Malaysia Melaka





■ ABOUT UTeM

## Vision

To Be One of the World's Leading Innovative and Creative Technical Universities

## Mission

UTeM is determined to lead and contribute to the wellbeing of the country and the world by:

1. Promoting knowledge through innovative teaching & learning, research and technical scholarship;
2. Developing professional leaders with impeccable moral values;
3. Generating sustainable development through smart partnership with the community and industry.

## Motto

Excellence Through Competency

## General Educational Goals

1. To conduct academic and professional programmes based on relevant needs of the industries.
2. To produce graduates with the following attributes; having the relevant knowledge, technical competency, soft skills, social responsibility and accountability.
3. To cultivate scientific method, critical thinking, creative and innovative problem solving and autonomy in decision making amongst graduates.
4. To foster development and innovation activities in collaboration with industries for the prosperity of the National.
5. To equip graduates with leadership and teamwork skills as well as develop communication and life-long learning skills.
6. To develop technopreneurship and managerial skills amongst graduates.
7. To instill an appreciation of the arts and cultural values and awareness of healthy life styles amongst graduates.





The Centre for Graduate Studies (PPS) of Universiti Teknikal Malaysia Melaka (UTeM) was established to further enhance the contributions in the area of engineering, technology and management through rigorous and dedicated academic research. The research activities at UTeM are geared towards the combinations of applied industrial and academic excellence.

PPS strives to provide higher degree education that is of high quality and relevant to the needs of the varied participants on the range of programmes offered. The ability to respond to participant's need is facilitated by a programme structure, which permits the maximum flexibility consistent with the maintenance of academic requirements and standards with an emphasis on close professional relationships between staff and students within the Centre. It is part of an academic community, which prides itself on an outstanding services and facilities. In the spirit of supportive fraternity, all students, regardless of creed and background, benefit from the challenges and opportunities presented by such environment.

The roles and functions of PPS are:

- To facilitate and manage the offering of the graduate programmes, which are innovative and relevant to the current and future market demands.
- To develop and enhance the quality of the graduate programmes for recognition and meeting the accreditation requirements.
- To become a one stop and leading centre for all information that relates to the graduate study programme at this university.
- To act as the catalyst to the development of the graduate studies programme and to be responsible in promoting the graduate studies programme.
- To increase the intake of the graduate students to the ratio of at least 10% of the total number of student enrolment through intensive activities and promotion, client-friendly procedures and attractive financial aid schemes.
- To make the graduate studies programme a major channel toward the increase of research and development activities.
- To become the main choice of students through the improvement of quality, infrastructure and conducive environment in UTeM graduate studies programme with international recognition and accreditation.

## SUMMARY OF PROGRAMMES OFFERED

Programmes Offered	Faculty/ Institute						
	Electrical Engineering	Electronics and Computer Engineering	Mechanical Engineering	Manufacturing Engineering	Information and Communication Technology	Technology Management and Technopreneurship	Institute of Technology Management and Entrepreneurship
Doctor of Philosophy (PhD)	✓	✓	✓	✓	✓	✓	✓
Industrial PhD (DEng, DIT)	✓	✓	✓	✓	✓		
Master By Research	✓	✓	✓	✓	✓	✓	✓
Master By Mixed Mode	✓		✓				
Master By Taught Course		✓	✓	✓	✓	✓	



## I. DOCTOR OF PHILOSOPHY (PhD)

The Doctoral candidate by research is supervised by an academic staff (or a panel of supervisors) from the faculty. The directed research work will focus on a particular subject that introduces candidate to the processes by which new knowledge is developed or/and applied accordingly. The specific topic of investigation will be agreed upon by the supervisor (or panel of supervisors) and the candidate. The academic progress of a candidate is assessed through a research. Progress report is submitted at the end of each semester. The degree is awarded based on an oral examination (viva-voce) of the thesis submitted by the candidate on completion of the study. Candidates intending to study by research may submit their application for admission throughout the year.

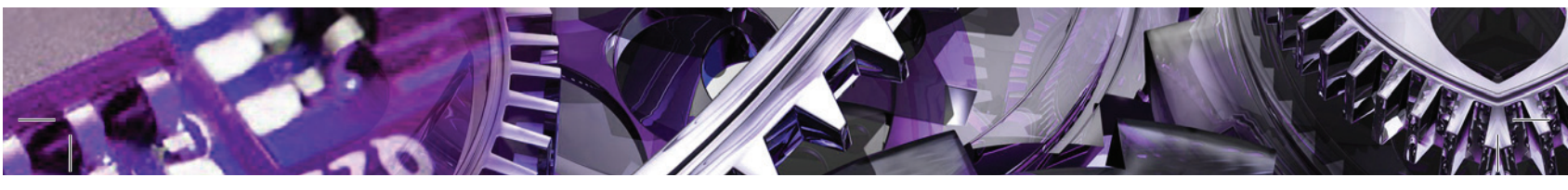
### Programmes Offered:

- Electrical Engineering
- Electronic Engineering
- Mechanical Engineering
- Manufacturing Engineering
- Information and Communication Technology
- Technology Management
- Entrepreneurship
- Technical Communication
- Industrial Counseling
- Human Resource Development

Mode of Registration	Full Time	Part Time
Duration (years)	2-6	3-8

### Programme Structure

	Subjects	Credit Hours
Compulsory Subject	Research Methodology	3
University Elective Subjects (Choose One)	Entrepreneurship	3
	Engineering & Technology Management	3
	Project Management	3
	Quality Systems Management	3
Thesis		84
Total Credit hours		90



## II. DOCTOR OF ENGINEERING (DEng)

The Doctor of Engineering (DEng) is a 4 years doctoral level programme combining academic research and scholarship with industrial problem-solving and project management. The programme incorporates the industrial relevant research, team leadership and unique university-industry partnership. The academic degree awarded on the basis of advanced study and research in engineering is equivalent to a PhD degree in engineering/ applied sciences. The innovative research output from the programme is expected to be immediately useful to the participating company.

The DEng programme offers an opportunity for outstanding engineers to enhance their qualification through a mix of broadly based technical and professional training while completing an industry based research project. Successful researchers after completing the programme not only graduate with a title Doctor of Engineering, but also with the important mix of professional skills, technical knowledge and research experience that will enable them to progress to senior positions within industry at an acceleration rate.

### Participating Faculties:

- Faculty of Electrical Engineering
- Faculty of Electronics and Computer Engineering
- Faculty of Mechanical Engineering
- Faculty of Manufacturing Engineering

Mode of Registration	Full Time
Duration (years)	3-8

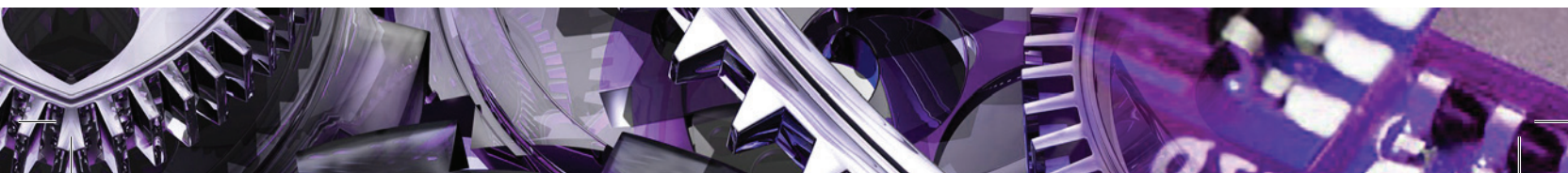
### Entry Requirements:

1. A Master degree (or equivalent) from any institution of higher learning recognized by the Malaysian Government with CGPA of at least 2.75; AND
2. Have at least 3 years of working experience AND
3. Has obtained the approval from employer to accommodate the research project in the workplace OR
4. A Master degree student who has obtained Senate approval to enroll for the programme

### Programme Structure

DEng programme consists of two components, i.e. taught course and research.

Components	Particular
Taught Course	- Modules are designed to enhance candidates' knowledge in the related Engineering and Business Management subjects
Research	- Based on real industrial problems



**Taught Course:**

Candidates in this programme are expected to undertake 18 credit hours of subjects.

The following is the proposed schedule of the taught component:

Components	Year 1		Year 2		Year 3	
	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
Course Work	3 credits	3 credits	3 credits	3 credits	3 credits	3 credits
Research	←-----→					

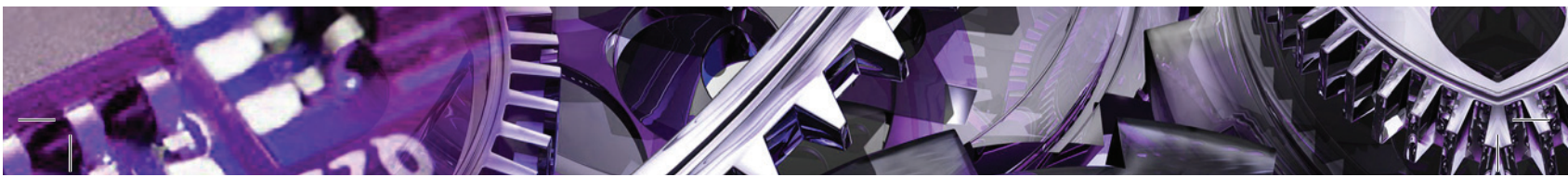
**Course Work Subjects:**

Depending on the faculty at which the student is based the subjects consist of the following:

University Compulsory Subjects (2 Subjects)	Faculty Subjects (4 Subjects)	Research
PPSW 6013 Research Methodology	Faculty of Electrical Engineering - 4 master level subjects	<ul style="list-style-type: none"> <li>- Based on real industrial problems</li> <li>- Research will be carried out in the industry</li> <li>- Submit research thesis at the end of study</li> </ul>
PPSW 6023 Entrepreneurship	Faculty of Electronic & Computer Engineering - 4 master level subjects	
PPSW 6033 Engineering and Technology Management	Faculty of Manufacturing Engineering - 4 master level subjects	
PPSW 6053 Quality Systems Management	Faculty of Mechanical Engineering	
PPSW 6073 Project Management		

**Research:**

The candidate will normally be advised by one academic supervisor and one industrial supervisor. The topic for the research will be jointly decided by the faculty and the participating company. It can be a single project, or a series of projects, firmly based on a real industrial problem and having significant challenging and innovative engineering content. The candidate will spend majority of his/her time (about 80%) with the collaborating company.



### III. DOCTOR OF INFORMATION TECHNOLOGY (DIT)

Doctor of Information Technology offers a unique 3½ year program that consists of coursework (7 modules) and research studies to extend fundamental knowledge of information and communication technology in solving industrial relevant problems. During the research studies, candidate is supervised by an academic staff from the university and an industrial supervisor from the related research field. The directed research work will focus on an industrial problem that engages the candidate in industry-based problem solving by which new knowledge is developed or/and applied accordingly. The supervisor (or panel of supervisors), the industry supervisor and the candidate will select the topic of investigation. The academic progress of the candidate is assessed through assignments, written tests, and research progress report throughout the studies. The degree is awarded based on the completion of coursework, and an oral examination (viva-voce) of the thesis submitted by the candidate on completion of the study. Interested candidates may submit their application for admission throughout the year. Successful candidates should begin their studies in common semester according to the university academic calendar.

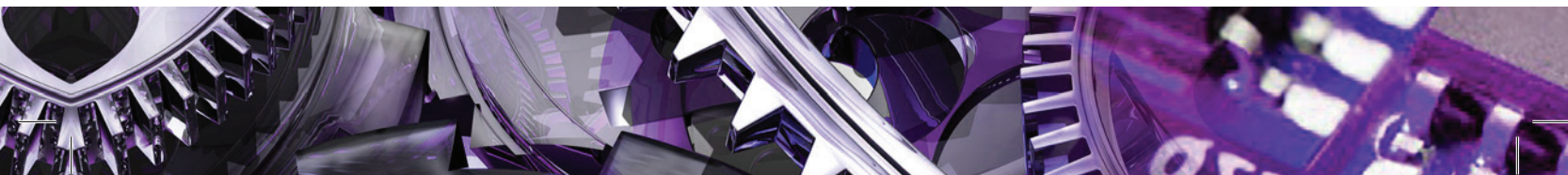
#### Areas of Research:

- Computational Intelligence and Technologies
- Computational Modelling and Optimisation
- Immersive Technology and Wearable Computing
- Information Security and Digital Forensics
- Geoinformation System and Database
- Biomedical computing and Engineering Technologies
- Advanced Networking and Distributed System
- Software Engineering

Mode of Registration	Full Time
Duration (years)	3½-8

#### Entry Requirements:

1. A Master degree (or equivalent) from any institution of higher learning recognized by the Malaysian Government with CGPA at least 2.75; AND
2. At least a degree (either the Bachelor Degree or the Master Degree) in Computing; AND
3. A working employee in an industry with at least 2 years of experience and has obtained the approval from employer to accommodate the research project in the workplace



**Programme Structure:**

Candidate should complete 91 credits of graduation requirement in 3 phases as follows:

	Year 1		Year 2		Year 3		Year 3	
	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
P1 : Course Work	9 credits	12 credits						
P2 : Research Preparation			14 credits					
P3 : Research				14 credits	14 credits	14 credits	14 credits	

**Curriculum Structure (Coursework) :****Year 1 (Semester 1)**

	Course Name	Credit
1	Research Methodology (University Compulsory Subject)	3
2	Faculty Compulsory Subject (Elective 1)**	3
3	Specialization Subject (Elective 1)***	3
	<b>TOTAL</b>	<b>9</b>

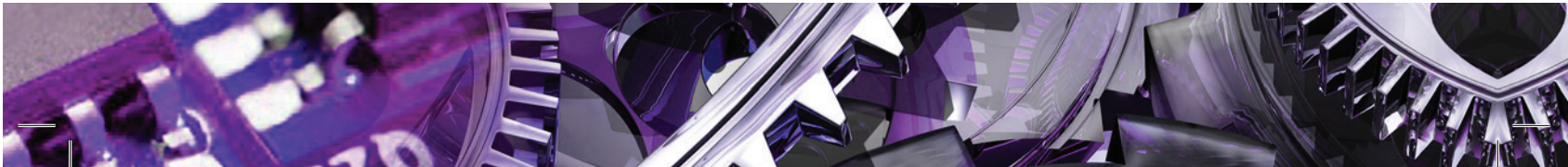
**Year 1 (Semester 2)**

	Course Name	Credit
1	University Elective Subject*	3
2	Faculty Compulsory Subject (Elective 2)**	3
3	Specialization Subject (Elective 2)***	3
4	Specialization Subject (Elective 3)***	3
	<b>TOTAL</b>	<b>12</b>

\* University Elective Subject (Choose 1 only)

\*\* Faculty Compulsory Subject (Choose 2 only)

\*\*\* Specialization Subject (Choose 3 only from the same specialization)



### University Subjects

Module	Subject	Credit
Compulsory	Research Methodology	3
Elective (Choose 1 Only)	Entrepreneurship	3
	Project Management	3
	Quality System Management	3
	Engineering & Technology Management	3

### Faculty Compulsory Subjects

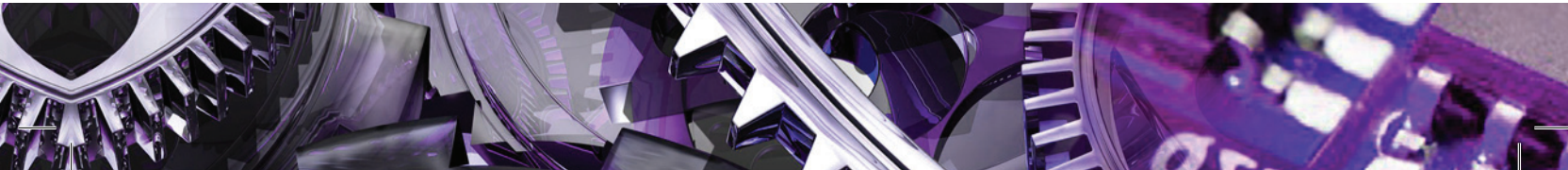
Module	Subject	Credit
Compulsory Elective (Choose 2 Only)	Theory of Computation	3
	Computer Architecture & Compiler	3
	Advanced Data Communication & Networks	3
	Advanced Software Engineering	3
	Business Intelligence	3

### Specialization Subjects: Information and Software Engineering

Module	Subject	Credit
Elective (Choose 3 Only)	Requirements Engineering	3
	Current Trend of Database Technology	3
	Mobile Database	3
	Data Warehousing and Data Mining	3
	Knowledge Management	3

### Specialization Subjects: Networking

Module	Subject	Credit
Elective (Choose 3 Only)	Advanced Scalable Internetworking	3
	Advanced High Performance Network	3
	Advanced Network Design & Diagnostic	3
	Distributed Computing System	3
	Computer Forensic	3



### Specialization Subjects: Intelligent System and Soft Computing

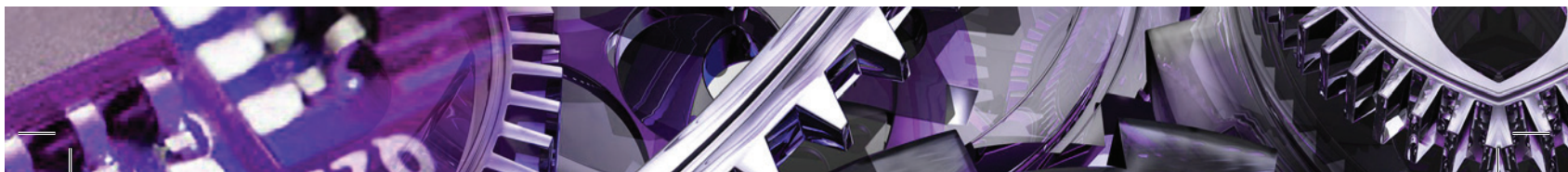
Module	Subject	Credit
Elective (Choose 3 Only)	Artificial Intelligence	3
	Advanced Soft Computing	3
	Advanced Evolutionary Computing	3
	Advanced Artificial Intelligence in Manufacturing	3
	Advanced Image processing and Pattern Recognition	3
	Special Topic in Intelligent System And Soft Computing	3

### Specialization Subjects: Computational Modelling

Module	Subject	Credit
Elective (Choose 3 Only)	Mathematical Modeling and Simulation	3
	Computational Optimization	3
	Advanced Numerical Methods	3
	Special Topic in Computational Modelling	3

### Specialization Subjects: Visualisation and Immersive Technology

Module	Subject	Credit
Elective (Choose 3 Only)	Computer Graphics and Visualizations	3
	Mobile Application Development	3
	Multimedia Information Retrieval	3
	Advanced Human Computer Interaction	3



#### IV. MASTER OF SCIENCE

The Master of Science candidate is supervised by an academic staff (or a panel of supervisors) from the faculty. The directed research work will focus on a particular subject that introduces candidates to the processes by which new knowledge is developed or/and applied accordingly. The specific topic of investigation will be agreed upon by the supervisor (or panel of supervisors) and the candidate. The academic progress of a candidate is assessed through a research. Progress Report submitted at the end of each semester. The degree is awarded based on an oral examination (viva-voce) of the thesis submitted by the candidate on completion of the study. Candidates intending to study by research may submit their application for admission throughout the year.

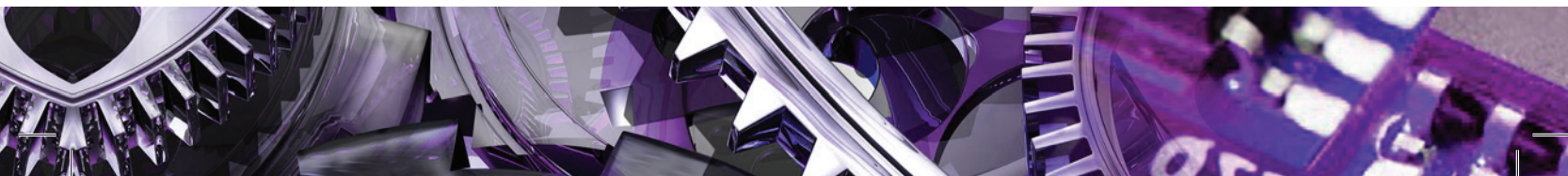
##### Programmes Offered:

- Electrical Engineering
- Electronic Engineering
- Mechatronic Engineering
- Mechanical Engineering
- Manufacturing Engineering
- Information and Communication Technology
- Technology Management
- Entrepreneurship
- Technical Communication
- Industrial Counseling
- Human Resource Development

Mode of Registration	Full Time	Part Time
Duration (years)	1-3	2-5

##### Programme Structure

Module	Subject	Credit
Compulsory Subject	Research Methodology	3
University Elective Subjects (Choose One)	Entrepreneurship	3
	Engineering & Technology Management	3
	Project Management	3
	Quality Systems Management	3
	<b>Thesis</b>	30
	<b>Total Credit hours</b>	36





MASTER PROGRAMME BY MIXED MODE ■

At the moment the Master Programme by Mixed Mode is exclusively offered by the Faculty of Electrical Engineering and Faculty of Mechanical Engineering. Mixed Mode refers to the combination of taught course and research activities. The assessment depends upon both the coursework and dissertation (research work). The component for the coursework is 50% and the dissertation contributes the other 50%. The Mixed Mode program develops the research skill of the students on top of enhancing the theoretical knowledge of the subject area.

### Programmes Offered:

#### Master of Electrical Engineering

- Industrial Power
- Power Electronics and Drives
- Control and Robotics

Mode of Registration	Full Time	Part Time
Duration (years)	2-3	-

#### Master of Mechanical Engineering

- Applied Mechanics
- Energy
- Automotive

Mode of Registration	Full Time	Part Time
Duration (years)	2-3	3-5

#### Master of Electrical Engineering (Industrial Power)

1 <sup>st</sup> Semester (Taught Courses)	Credit
Research Methodology	3
Power Quality & Energy Efficiency	3
Advanced Control Systems	3
Power System Modelling	3
2 <sup>nd</sup> Semester (Taught Courses)	
Engineering and Technology Management	3
Power System Protection & Stability	3
Power System Operation and Control	3
3 <sup>rd</sup> & 4 <sup>th</sup> Semester (Research)	
Dissertation	21
<b>Total Credit Hours</b>	<b>42</b>

#### Master of Electrical Engineering (Power Electronics and Drives)

1 <sup>st</sup> Semester (Taught Courses)	Credit
Research Methodology	3
Power Quality & Energy Efficiency	3
Advanced Control Systems	3
Electrical Motor Drives	3
2 <sup>nd</sup> Semester (Taught Courses)	
Engineering and Technology Management	3
Advanced Power Electronics Converters	3
Intelligent Electrical Motor Drives	3
3 <sup>rd</sup> & 4 <sup>th</sup> Semester (Research)	
Dissertation	21
<b>Total Credit Hours</b>	<b>42</b>



### Master of Electrical Engineering (Control and Robotics)

1 <sup>st</sup> Semester (Taught Courses)	Credit
Research Methodology	3
Power Quality & Energy Efficiency	3
Advanced Control Systems	3
Modern Control Design	3
2 <sup>nd</sup> Semester (Taught Courses)	
Engineering and Technology Management	3
Industrial Robotics	3
Stochastic Control Systems	3
3 <sup>rd</sup> & 4 <sup>th</sup> Semester (Research)	
Dissertation	21
<b>Total Credit Hours</b>	<b>42</b>

### Master of Mechanical Engineering (Energy)

1 <sup>st</sup> Semester (Taught Courses)	Credit
Engineering and Technology Management	3
Mechanical System Design	3
Engineering Modeling & Simulation	3
Energy Management System	3
2 <sup>nd</sup> Semester (Taught Courses)	
Research Methodology	3
Renewable Energy	3
Energy Technology	3
3 <sup>rd</sup> & 4 <sup>th</sup> Semester (Research)	
Dissertation	21
<b>Total Credit Hours</b>	<b>42</b>

### Master of Mechanical Engineering (Applied Mechanics)

1 <sup>st</sup> Semester (Taught Courses)	Credit
Engineering and Technology Management	3
Mechanical System Design	3
Engineering Modeling & Simulation	3
Advance Material Engineering	3
2 <sup>nd</sup> Semester (Taught Courses)	
Research Methodology	3
Failure Mechanics	3
Crashworthiness and Impact	3
3 <sup>rd</sup> & 4 <sup>th</sup> Semester (Research)	
Dissertation	21
<b>Total Credit Hours</b>	<b>42</b>

### Master of Mechanical Engineering (Automotive)

1 <sup>st</sup> Semester (Taught Courses)	Credit
Engineering and Technology Management	3
Mechanical System Design	3
Engineering Modeling & Simulation	3
Noise, Vibration & Harshness	3
2 <sup>nd</sup> Semester (Taught Courses)	
Research Methodology	3
Vehicle Power Train System	3
Intelligent Vehicle Dynamics Control	3
3 <sup>rd</sup> & 4 <sup>th</sup> Semester (Research)	
Dissertation	21
<b>Total Credit Hours</b>	<b>42</b>





MASTER PROGRAMME BY TAUGHT COURSE

The Master programme by Taught Course (or coursework) is designed to extend the knowledge and skills gained from the first degree and to develop new professional skills of the graduates in the particular area of study. The programme involves lectures, seminars and project work. A minimum of 40 credit hours of taught subjects and a research report and a final Cumulative Grade Point Average (CGPA) of at least 3.0 are required for the award of the Master degree.

The credit hour which comply with the Malaysia Qualification Agency (MQA), of study comprise a combination of compulsory subjects, electives and a Master's Project. Assessments are made through take home assignments, tests and final semester examinations. Students' progress and performance in the Master project is assessed through oral presentations and a written report.

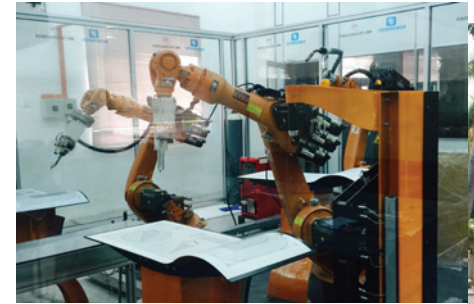
#### Faculty of Electronics and Computer Engineering:

Programmes Offered	Mode of Registration Duration (years)	
	Full Time	Part Time
Master of Electronic Engineering <ul style="list-style-type: none"> <li>• Telecommunication Systems</li> <li>• Electronic Systems</li> <li>• Computer Engineering</li> </ul>	1-2	2-4



#### Faculty of Mechanical Engineering:

Programmes Offered	Mode of Registration Duration (years)	
	Full Time	Part Time
Master of Mechanical Engineering <ul style="list-style-type: none"> <li>• Structure Mechanics</li> <li>• Energy Engineering</li> <li>• Automotive</li> <li>• Product Design</li> </ul>	1.5-2.5	3-5



### Faculty of Manufacturing Engineering:



Programmes Offered	Mode of Registration Duration (years)	
	Full Time	Part Time
Master of Manufacturing Engineering <ul style="list-style-type: none"> <li>• Manufacturing System Engineering</li> <li>• Quality System Engineering</li> <li>• Industrial Engineering</li> <li>• Precision Engineering</li> </ul>	1-3	2-4

### Faculty of Information and Communication Technology:



Programmes Offered	Mode of Registration Duration (years)	
	Full Time	Part Time
Master of Computer Science <ul style="list-style-type: none"> <li>• Internetworking Technology</li> <li>• Database Technology</li> <li>• Software Engineering and Intelligence</li> <li>• Security Science</li> <li>• Multimedia Computing</li> </ul>	1.5-3	2-4

### Faculty of Technology Management & Technopreneurship:



Programmes Offered	Mode of Registration Duration (years)	
	Full Time	Part Time
Master of Business Administration <ul style="list-style-type: none"> <li>• Advanced Operations Management</li> <li>• Technology and Innovation Management</li> </ul>	2-4	2-6

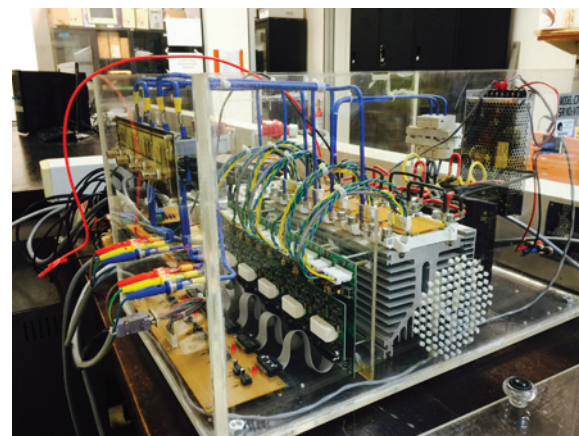
## Faculty of Electronics and Computer Engineering Programme Structure

### 1(i) Master of Electronic Engineering (Programme Core Subjects)

TELECOMMUNICATION SYSTEM	
Subjects	Credit Hours
Research Methodology	3
Engineering and Technology Management	3
Advanced Digital Signal Processing	3
Advanced Electronic Design	3
Advanced TCP/IP Network	3
Wave Propagation	3
Antenna Design	3
Microwave and RF Circuit Design	3
Project I	4
Project II	6
<b>Programme Core Credit Hours</b>	<b>34</b>

ELECTRONIC SYSTEM	
Subjects	Credit Hours
Research Methodology	3
Engineering & Technology Management	3
Advanced Digital Signal Processing	3
Advanced Electronic Design	3
Advanced TCP/IP Network	3
Digital Control	3
Artificial Intelligence	3
Advanced Power Electronics	3
Project I	4
Project II	6
<b>Programme Core Credit Hours</b>	<b>34</b>

COMPUTER ENGINEERING	
Subjects	Credit Hours
Research Methodology	3
Engineering & Technology Management	3
Advanced Digital Signal Processing	3
Advanced Electronic Design	3
Advanced TCP/IP Network	3
Computer Architecture	3
Embedded Software Design	3
Digital VLSI Design	3
Project I	4
Project II	6
<b>Programme Core Credit Hours</b>	<b>34</b>



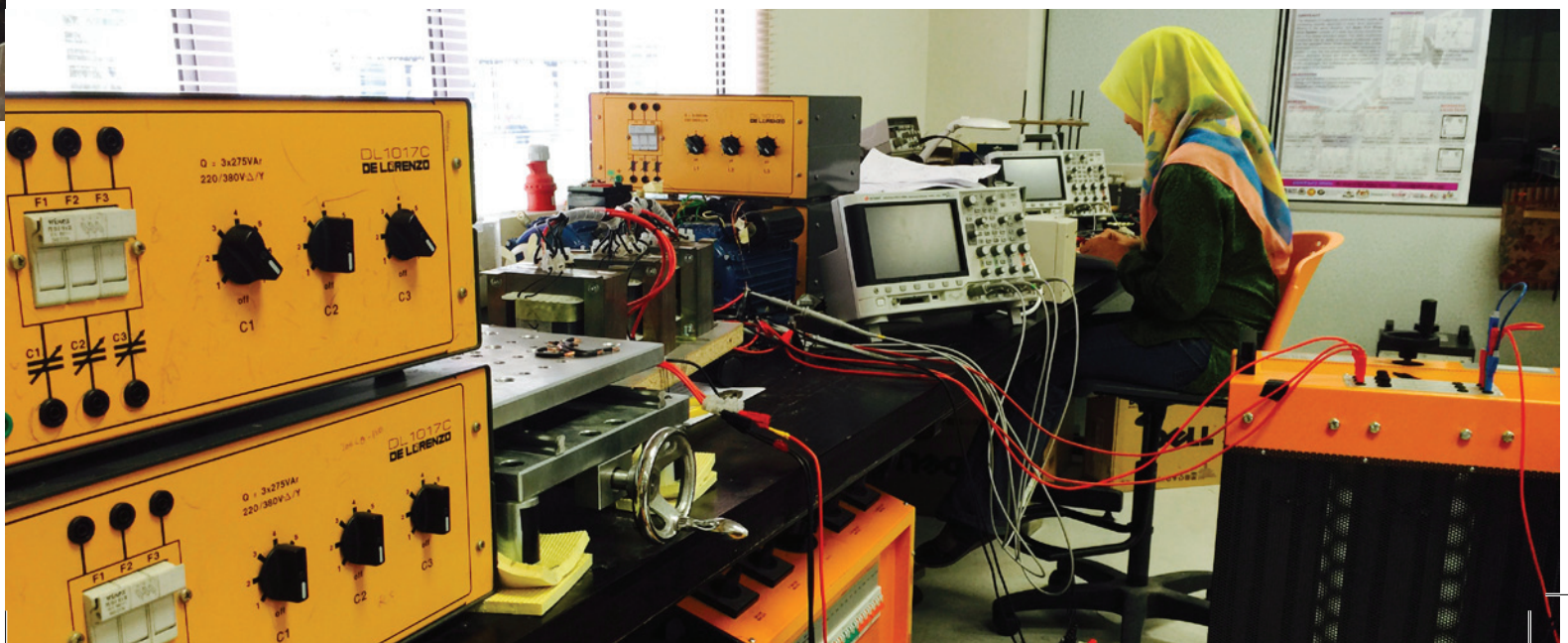
**1(ii) Master of Electronic Engineering (Course Core Subjects)**

Student has to choose two course core modules only for each specialization

TELECOMMUNICATION SYSTEM	
Subjects	Credit Hours
Advanced Digital Communication	3
Satellite Communication	3
Broadband Wireless Communication	3
Optical Communication	3

ELECTRONIC SYSTEM	
Subjects	Credit Hours
Advanced Control	3
Discrete Event System	3
Sensor Technology	3
Embedded System Design	3

COMPUTER ENGINEERING	
Subjects	Credit Hours
Mixed Analog Signal VLSI Design	3
IC Testing	3
Embedded System Design	3
Distributed and High Performance Computing	3



## Faculty of Mechanical Engineering Programme Structure

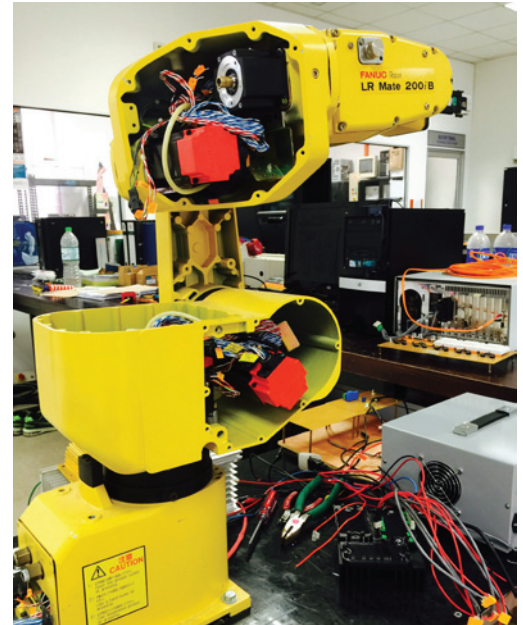
### 2(i) Master of Mechanical Engineering (Energy Engineering)

Subjects		Credit Hours
<b>Compulsory Subject</b>	Research Methodology	3
<b>University Elective Subjects (choose one)</b>	Entrepreneurship Engineering & Technology Management Project Management Quality Systems Management	3
<b>Faculty Core</b>	Mechanical System Design Numerical Analysis Master Project	3 3 10
<b>Programme Core</b>	Advanced Heat Transfer Monitoring & Verification Energy Management Renewable Energy Technology Computational Fluid Dynamics	3 3 3 3 3
<b>Programme Electives (choose one)</b>	Bio-Fuel Technology Waste Heat Recovery Small Scale Electric Hydro	3
<b>Total Credit hours</b>		40



### 2(ii) Master of Mechanical Engineering (Structure Mechanics)

Subjects		Credit Hours
<b>Compulsory Subject</b>	Research Methodology	3
<b>University Elective Subjects (choose one)</b>	Entrepreneurship Engineering & Technology Management Project Management Quality Systems Management	3
<b>Faculty Core</b>	Mechanical System Design Numerical Analysis Master Project	3 3 10
<b>Programme Core</b>	Elastic and Plastic Theory Finite Element Analysis Structural Dynamic Advanced Material Engineering	3 3 3 3
<b>Programme Electives (choose two)</b>	Structural Impact Mechanics Experimental Stress Analysis Structural Health Monitoring	3
	Mechanics of Composite Materials Fatigue & Fracture Mechanics Corrosion & Protection	3
<b>Total Credit hours</b>		40



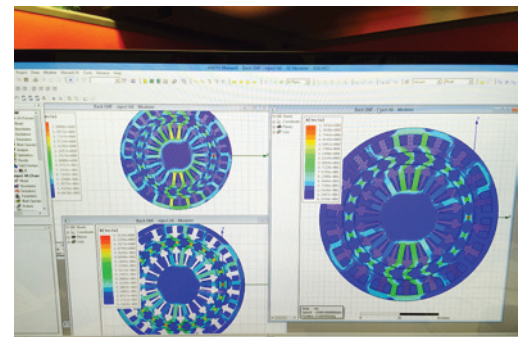
**2(iii) Master of Mechanical Engineering (Automotive)**

Subjects		Credit Hours
<b>Compulsory Subject</b>	Research Methodology	3
<b>University Elective Subjects (choose one)</b>	Entrepreneurship Engineering & Technology Management Project Management Quality Systems Management	3
<b>Faculty Core</b>	Mechanical System Design Numerical Analysis Master Project	3 3 10
<b>Programme Core</b>	Green Technology Vehicle Vehicle Electrical & Electronics System Intelligent Vehicle Control Noise, Vibration & Harshness	3 3 3 3
<b>Programme Electives (choose two)</b>	Automotive Human Factor Emission Control Technology Vehicle Power Train and Driveline	3
	Vehicle Breaking System Tyre Behaviour & Performance Control Advanced Vehicle Dynamics	3
<b>Total Credit hours</b>		40



**2(iv) Master of Mechanical Engineering (Product Design)**

Subjects		Credit Hours
<b>Compulsory Subject</b>	Research Methodology	3
<b>University Elective Subjects (choose one)</b>	Entrepreneurship Engineering & Technology Management Project Management Quality Systems Management	3
<b>Faculty Core</b>	Mechanical System Design Numerical Analysis Master Project	3 3 10
<b>Programme Core</b>	Computer Aided Engineering Time Compression Technologies Fatigue & Fracture Mechanics Thermal System Design	3 3 3 3
<b>Programme Electives (choose two)</b>	Industrial & Design Engineering Human Factors in Design Product Reliability & Integrity Design for Manufacturing and Assembly	6
<b>Total Credit hours</b>		40



### 30 Faculty of Manufacturing Engineering

#### Programme Structure

##### 3(i) Master of Manufacturing Engineering (Programme Core Subjects)

Subjects	Credit Hours
Sustainable Product Design and Manufacturing	3
Advanced Manufacturing Process	3
Management of Global Manufacturing Operation	3
Engineering Optimization	3
Master Project 1	3
Master Project 2	6
Seminar on Manufacturing Engineering	*HW

\*HW=Compulsory Attendance

##### 3(ii) Master of Manufacturing Engineering (Course Core Subjects)

Student has to choose three core course modules only

MANUFACTURING SYSTEM ENGINEERING	
Subjects	Credit Hours
Intelligent Manufacturing	3
Design of Manufacturing	3
Lean Manufacturing	3
Robotics & Automation	3
Engineering Economy and Decision Analysis	3

INDUSTRIAL ENGINEERING	
Subjects	Credit Hours
Production Planning and Control System	3
Supply Chain Management	3
Manufacturing Cost and Economy	3
Industrial and Work System Design	3
Facilities Planning	3

QUALITY SYSTEM ENGINEERING	
Subjects	Credit Hours
Design for Quality	3
Total Quality Management	3
Reliability Engineering	3
Statistical Quality Control and Six Sigma	3
Engineering Economy and Cost Analysis	3

PRECISION ENGINEERING	
Subjects	Credit Hours
Advanced Metrology	3
Micromachining Technology	3
Computer Aided Engineering	3
Precision Engineering	3
Quality and Reliability	3

**4(i) Master of Computer Science (Programme Core Subjects)**

Subjects	Credit Hours
Theory of Computation	3
Advanced Human-Computer Interaction	3
Advanced Data communication & Networks	3
Computer Architecture & Compiler	3
Algorithm Analysis and Design	3
Project 1	3
Project 2	6

**4(ii) Master of Computer Science (Course Core)**

Student has to choose 4 core course modules in each specialization

INTERNETWORKING TECHNOLOGY	
Subjects	Credit Hours
Parallel Processing	3
Advanced Scalable Internetworking	3
Advanced Network Design and Diagnostics	3
Distributed Computing Systems	3
Advanced High Performance Network	3
Advanced Mobile Computing	3

SECURITY SCIENCE	
Subjects	Credit Hours
Public Key Infrastructure	3
Computer Forensics	3
Systems and Networking Hacking	3
Cryptography and Data Security	3
Intrusion Detection and Prevention	3
Security Management Practices	3
Watermarking	3

SOFTWARE ENGINEERING & INTELLIGENCE	
Subjects	Credit Hours
Advanced Software Engineering	3
Artificial Intelligence	3
Requirement Elicitation	3
Knowledge Representation & Reasoning	3
Advanced Topics in Software Intelligent	3

MULTIMEDIA COMPUTING	
Subjects	Credit Hours
3D Modeling	3
Advanced 3D Animation	3
Computer Graphics & Visualisation	3
Advanced Audio and Video Technology	3
Mobile Application Development	3
Advanced Web Programming	3
Multimedia Professional Ethics	3
Multimedia Based Instructional Design	3

DATABASE TECHNOLOGY	
Subjects	Credit Hours
Database Programming	3
Database Administration Security	3
Mobile Database	3
Advanced and Deductive Database Systems	3
Data Warehousing and Data Mining	3
Distributed Database	3
Current Trend of Database Technology	3

## 32 Faculty of Technology Management and Technopreneurship

### 5(i) Master of Business Administration (Programme Core)

Subjects	Credit Hours
Global Management & Organizational Behaviour	3
Technopreneurship & Industrial Leadership	3
Economics for Managers	3
Accounting & Finance for Managers	3
Marketing Management and Technology	3
Technology and Operation Management	3
Managing Human Side of Technology	3
Strategic Technology Management	3
Information Technology and E-Commerce	3
Research Methodology	3
Project Paper	6
<b>Programme Core Credit Hours</b>	<b>36</b>



### 5(ii) Master of Business Administration (Course Core)

ADVANCED OPERATIONS MANAGEMENT	
Subjects	Credit Hours
Advanced Manufacturing and Service Management	3
Supply Chain Management	3
Quality Management	3
<b>Course Core Credit Hours</b>	<b>9</b>
<b>Total Credit Hours</b>	<b>45</b>

TECHNOLOGY AND INNOVATION MANAGEMENT	
Subjects	Credit Hours
Technology Forecast	3
Managing Innovation and Technological Change	3
Technology Transfer	3
<b>Course Core Credit Hours</b>	<b>9</b>
<b>Total Credit Hours</b>	<b>45</b>



ENTRY REQUIREMENTS ■

# ENTRY REQUIREMENTS

Candidates must have the following academic qualification(s):

## Doctoral Programme

- a) A Master degree from UTeM or any other accredited institutions of higher learning; OR
- b) Any other qualifications that are recognised as equivalent to a Master degree or other relevant qualifications and experience that are recognised by the Senate.
- c) For Industrial PhD programme, candidate must be currently an employee as professionals, executives, engineers, researchers or equivalent, in the industry or Malaysian company operating overseas.
- d) Application for Doctoral degree must be accompanied by an initial research proposal.

## Master Degree Programmes

- a) A relevant Bachelor's Degree (honours) with good grades (minimum CGPA of 2.75 or equivalent) from UTeM or any other institutions of higher learning recognised by the Senate; OR
- b) Any other qualification that is recognised as equivalent to a Bachelor's degree (honours) or other relevant qualifications and experience that are recognised by the Senate; OR
- c) For candidate with Bachelor's degree whose CGPA is between 2.74 and 2.5, relevant work experience in the related fields will be considered. One (1) year relevant experience will be considered as equivalent to 0.1 CGPA; OR
- d) For candidate with Bachelor's degree whose CGPA is between 2.49 and 2.00, minimum of 5 years relevant work experience in the related fields will be considered.
- e) Candidates with diploma qualification and minimum work experience of TEN (10) years in the relevant field of interest will be considered together with UTeM's Accredited Prior Experiential Learning (APEL) except for Masters of Business Administration and Master of Computer Science where MQA APEL application should be made directly to the MQA and approval must first be obtained before applying to UTeM programme.
- f) Applicants for the MBA programme must have at least one (1) year relevant working experience.
- g) Application for Master (by Research) programme must be accompanied by an initial research proposal.



### Language Requirements

- a) International applicants are required to present the Test of English as a Foreign Language (TOEFL) or the test administered by the International English Language Testing System (IELTS) with the minimum required score listed in table below

Types of Programmes	Minimum TOEFL Score	Minimum IELTS Score
Master	520	5.5
Doctoral	550	6.0

- b) Applicants without TOEFL/IELTS or for those who obtained a score below the requirement above are required to undergo and pass the English language programme conducted by UTeM prior to commencement of the postgraduate programme.
- c) Exemption may be given to those who have undertaken regular programmes of studies and graduated from universities that use English as the medium of instruction or who has graduated from UTeM in a programme with English as the medium of instruction.

### Additional Requirements for International Students

- a) All international students are required to register as full time student and should have the financial capability to meet the course fees and living expenses.
- b) Applicants need to submit a letter of certification from their Ministry of Education verifying nationality and academic qualifications of candidate.
- c) Academic transcripts and supporting documents must be certified true copies by a senior public official from the applicant's country or from Malaysia.
- d) Proof of financial ability to pursue their studies and live in Malaysia for the duration of study. A letter of financial guarantee/sponsorship or the most recent financial statement from applicant's bank is sufficient.
- e) Have international passport with at least TWO (2) years validity and meet all immigration procedures.
- f) Medical check-up by the health authorities.





### Fees for Doctor of Philosophy (PhD)

Details		Local (RM)	International (RM)
A	<b>Registration Fee</b>		
	Orientation	110.00	110.00
	Registration	20.00	20.00
	Alumni	100.00	100.00
	Student smart card	50.00	50.00
	<b>Total (A)</b>	<b>280.00</b>	<b>280.00</b>
B	<b>Service Fee</b>		
	Student activities	30.00	30.00
	Administration	140.00	140.00
	<b>Total</b>	170.00	170.00
	<b>Total (B) for 6 semesters</b>	<b>1,020.00</b>	<b>1,020.00</b>
C	<b>Tuition Fee</b>	200.00	
	i) Compulsory subjects (6 credits)	per credit	400.00
	<b>Subtotal</b>	<b>1,200.00</b>	<b>2,400.00</b>
	ii) Research (84 credits)	146.00	292.00
	<b>Subtotal</b>	<b>12,264.00</b>	<b>24,528.00</b>
	<b>Total (C)</b>	<b>13,464.00</b>	<b>26,928.00</b>
D	<b>Thesis examination</b>		
	i) Examination fee	1,500.00	1,500.00
	ii) Re-examination fee	1,500.00	1,500.00
	<b>Total (D)</b>	<b>1,500.00</b>	<b>1,500.00</b>
<b>Total (A+B+C+D)</b>		<b>16,264.00</b>	<b>29,728.00</b>

**Fees for Doctor of Engineering (DEng)**

Details		Local (RM)	International (RM)
A	<b>Registration Fee</b>		
	Orientation	110.00	
	Registration	20.00	
	Alumni	100.00	-
	Student smart card	50.00	
	<b>Total (A)</b>	<b>280.00</b>	
B	<b>Service Fee</b>		
	Student activities	30.00	
	Administration	140.00	-
	<b>Total</b>	170.00	
	<b>Total (B) for 6 semesters</b>	<b>1,020.00</b>	
C	<b>Tuition Fee</b>		
	i) Compulsory subjects (18 credits)	275.00	
		per credit	
	<b>Subtotal</b>	<b>4,950.00</b>	
	ii) Research (84 credits)	370.00	
	per credit		
	<b>Subtotal</b>	<b>31,080.00</b>	
	<b>Total (C)</b>	<b>36,030.00</b>	
D	<b>Thesis examination</b>		
	i) Examination fee	1,500.00	
	ii) Re-examination fee	1,500.00	-
	<b>Total (D)</b>	<b>1,500.00</b>	
<b>Total (A+B+C+D)</b>		<b>38,830.00</b>	-

### Fees for Doctor of Information Technology (DIT)

Details		Local (RM)	International (RM)
A	<b>Registration Fee</b>		
	Orientation	110.00	110.00
	Registration	20.00	20.00
	Alumni	100.00	100.00
	Student smart card	50.00	50.00
	<b>Total (A)</b>	<b>280.00</b>	<b>280.00</b>
B	<b>Service Fee</b>		
	Student activities	30.00	30.00
	Administration	140.00	140.00
	<b>Total</b>	170.00	170.00
	<b>Total (B) for 7 semesters</b>	<b>1,190.00</b>	<b>1,190.00</b>
C	<b>Tuition Fee</b>		
	i) Compulsory subjects (21 credits)	400.00 per credit	700.00 per credit
	<b>Subtotal</b>	<b>8,400.00</b>	<b>14,700.00</b>
	ii) Research (every semester)	3000.00	6000.00
	5 Semester	15,000.00	30,000.00
	<b>Subtotal</b>	<b>15,000.00</b>	<b>30,000.00</b>
	<b>Total (C)</b>	<b>23,400.00</b>	<b>44,700.00</b>
D	<b>Thesis examination</b>		
	i) Examination fee	1,500.00	1,500.00
	ii) Re-examination fee	1,500.00	1,500.00
	<b>Total (D)</b>	<b>1,500.00</b>	<b>1,500.00</b>
	<b>Total (A+B+C+D)</b>	<b>26,370.00</b>	<b>47,670.00</b>

\*\*If the program conducted off campus, the tuition fees will be adjusted accordingly.

**Fees for Master Programme by Research**

Details		Local (RM)	International (RM)
A	<b>Registration Fee</b>		
	Orientation	110.00	110.00
	Registration	20.00	20.00
	Alumni	100.00	100.00
	Student smart card	50.00	50.00
	<b>Total (A)</b>	<b>280.00</b>	<b>280.00</b>
B	<b>Service Fee</b>		
	Student activities	30.00	30.00
	Administration	140.00	140.00
	<b>Total</b>	170.00	170.00
	<b>Total (B) for 3 semesters</b>	<b>510.00</b>	<b>510.00</b>
C	<b>Tuition Fee</b>		
	i) Compulsory subjects (6 credits)	156.00 per credit	312.00 per credit
	<b>Subtotal</b>	<b>936.00</b>	<b>1,872.00</b>
	ii) Research (30 credits)	117.00 per credit	234.00 per credit
	<b>Subtotal</b>	<b>3,510.00</b>	<b>7,020.00</b>
	<b>Total (C)</b>	<b>4,446.00</b>	<b>8,892.00</b>
D	<b>Thesis examination</b>		
	i) Examination fee	750.00	750.00
	ii) Re-examination fee	750.00	750.00
	<b>Total (D)</b>	<b>750.00</b>	<b>750.00</b>
	<b>Total (A+B+C+D)</b>	<b>5,986.00</b>	<b>10,432.00</b>

### Fees for Master Programme by Mixed Mode

Details		Local (RM)	International (RM)
A	Registration Fee		
	Orientation	110.00	110.00
	Registration	20.00	20.00
	Alumni	100.00	100.00
	Student smart card	50.00	50.00
	<b>Total (A)</b>	<b>280.00</b>	<b>280.00</b>
B	<b>Service Fee</b>		
	Student activities	30.00	30.00
	Administration	140.00	140.00
	<b>Total</b>	170.00	170.00
	<b>Total (B) for 4 semesters</b>	<b>680.00</b>	<b>680.00</b>
C	<b>Tuition Fee</b>		
	i) Credit Hours	42 hours	42 hours
	ii) RM/credit hour	150.00	262.50
	<b>Total (C)</b>	<b>6,300.00</b>	<b>11,025.00</b>
<b>Total (A+B+C)</b>		<b>7,260.00</b>	<b>11,985.00</b>

### Fees for Master Programme by Taught Course

Master of Electronic Engineering and Master of Mechanical Engineering

Details		Local (RM)	International (RM)
A	<b>Registration Fee</b>		
	Orientation	110.00	110.00
	Registration	20.00	20.00
	Alumni	100.00	100.00
	Student smart card	50.00	50.00
	<b>Total (A)</b>	<b>280.00</b>	<b>280.00</b>
B	<b>Service Fee</b>		
	Student activities	30.00	30.00
	Administration	140.00	140.00
	<b>Total</b>	170.00	170.00
	<b>Total (B) for 3 semesters</b>	<b>510.00</b>	<b>510.00</b>
C	<b>Tuition Fee</b>		
	i) Credit Hours	40 hours	40 hours
	ii) RM/credit hour	150.00	262.50
	<b>Total (C)</b>	<b>6,000.00</b>	<b>10,500.00</b>
<b>Total (A+B+C)</b>		<b>6,790.00</b>	<b>11,290.00</b>

## Master of Manufacturing Engineering and Master of Computer Science

Details		Local (RM)	International (RM)
A	<b>Registration Fee</b>		
	Orientation	110.00	110.00
	Registration	20.00	20.00
	Alumni	100.00	100.00
	Student smart card	50.00	50.00
	<b>Total (A)</b>	<b>280.00</b>	<b>280.00</b>
B	<b>Service Fee</b>		
	Student activities	30.00	30.00
	Administration	140.00	140.00
	<b>Total</b>	170.00	170.00
	<b>Total (B) for 3 semesters</b>	<b>510.00</b>	<b>510.00</b>
C	<b>Tuition Fee</b>		
	i) Credit Hours	42 hours	42 hours
	ii) RM/credit hour	150.00	262.50
	<b>Total (C)</b>	<b>6,300.00</b>	<b>11,025.00</b>
<b>Total (A+B+C)</b>		<b>7,090.00</b>	<b>11,815.00</b>

## Master of Business Administration

Details		Local (RM)	International (RM)
A	<b>Registration Fee</b>		
	Orientation	110.00	110.00
	Registration	20.00	20.00
	Alumni	100.00	100.00
	Student smart card	50.00	50.00
	<b>Total (A)</b>	<b>280.00</b>	<b>280.00</b>
B	<b>Service Fee</b>		
	Student activities	30.00	30.00
	Administration	140.00	140.00
	<b>Total</b>	170.00	170.00
	<b>Total (B) for 4 semesters</b>	<b>680.00</b>	<b>680.00</b>
C	<b>Tuition Fee</b>		
	i) Credit Hours	45 hours	45 hours
	ii) RM/credit hour	300.00	450.00
	<b>Total (C)</b>	<b>13,500.00</b>	<b>20,250.00</b>
<b>Total (A+B+C)</b>		<b>14,460.00</b>	<b>21,210.00</b>



FINANCIAL ASSISTANCE ■

### 1. Postgraduate Fellowship Scheme (ZAMALAH)

This scheme is designed to enhance the number and quality of postgraduate students as well as UTeM research activities. Students pursuing Master of Science and Doctor of Philosophy are invited to apply:

#### Eligibility:

- a) Having an excellent academic qualification with the CGPA of not less than 3.50 or equivalent at the undergraduate level.
- b) For applicants who have a Master degree, they must also have outstanding academic achievement at undergraduate level.
- c) Registered as a full time student for Master of Science or Doctor of Philosophy at UTeM.
- d) Applicants do not receive scholarships or financial assistance from any other bodies or organization.
- e) Students in the final stages of Bachelor/MSc with excellent academic performance and intends to pursue Master / PhD by research can also apply by submitting an application through their respective faculties and obtain the recommendation from the Dean of the faculty.
- f) The application is open to local and international candidates.

#### Duration:

The maximum funding period is TWO (2) years for Master of Science and THREE (3) years for Doctor of Philosophy.

#### Stipend:

Monthly Allowance:

Degree	Amount (RM)
PhD	2,300.00
MSc	1,800.00

Recipients of this scheme will be exempted from paying Tuition and Examination Fees. As for other fees, it is the responsibility of the candidate to settle.

#### Closing Date:

Application is open throughout the year. However, the selection process will be held in March, July, October and December.

#### Application:

Application must be made using the official application form that can be downloaded from PPS website and must be accompanied by a copy of identity card/passport, degree, transcripts, and detailed research proposal. Application must be submitted to:

**Dean,  
Centre for Graduate Studies,  
Universiti Teknikal Malaysia Melaka,  
Hang Tuah Jaya,  
76100, Durian Tunggal, Melaka.**

## 2. UTeM MyBrain Fellowship Scheme

The objective of this scheme is to get qualified and competent UTeM Bachelor degree graduates to pursue Master and Doctoral (PhD) programme in research mode. UTeM MyBrain scheme is a form of financial aid that was established by the University. It is a privilege granted to Bachelor degree graduates who has achieved overall good examination result. This scheme is also designed to enhance the number and quality of postgraduate students as well as university research activities.

### Eligibility:

- a) Students who have recently graduated from UTeM
- b) Obtained a good track record of study
- c) Obtained at least CGPA of 3.350
- d) Acquired "A-" grade in Final Project
- e) Acquired MUET band 4
- f) Have a strong interest in research and innovation

### Implementation:

- a) Faculty will offer and select the appropriate students after the results confirmed by the Senate.
- b) Each faculty will be allowed to choose 5 students for each year.
- c) Recipients will be given a monthly allowance of RM1, 500.00 per month and the tuition fees will be waived for a maximum of 4 semesters (24 months of study).
- d) Students who are required to sign a Letter of Agreement that they will be subjected to a refund of the scheme if they do not complete their studies without a valid reason.
- e) Recipients must comply with all regulations issued by PPS.
- f) There is no contract of employment between UTeM with the recipients.

## 3. MyBrain15 Scholarship

MyBrain15 programme is a scholarship for Malaysian full-time postgraduate students, offered by the Ministry of Education. It was created under the 10th Malaysia Plan. The objective of MyBrain15 program is to reach 60,000 PhD holders among Malaysian citizens by year 2023. The schemes implemented through MyBrain15 programme are MyPhD, MyMaster and MyPhD Industry as given:

MyMaster	MyPhD	Industrial PhD
<b>Objective</b>		
<p>Motivate and encourage graduates to pursue their studies at a higher level, and to be a 'feeder' to the MyPhD programme.</p>	<p>Increase the number of highly skilled and knowledgeable professionals, and promote innovation and creativity in order to generate local economic and industry growth.</p>	<p>Promote knowledge sharing between industry and academia to produce highly knowledgeable and competent professionals.</p>
<b>Eligibility criteria</b>		
<ul style="list-style-type: none"> <li>• Malaysian citizen</li> <li>• No age limit</li> <li>• Unemployed graduate with no fixed income; OR employee in the private sector; OR lecturer in a private institution of higher education (IPTS)</li> <li>• Not a recipient of any scholarship or financial aid (other than allowance as a graduate Researcher Assistant) for studies of the same level</li> <li>• Not bonded by any parties during sponsorship period (eg from previous scholarships)</li> <li>• Is currently pursuing or has obtained admission to full-time postgraduate studies at an institution of higher education.</li> </ul>	<ul style="list-style-type: none"> <li>• Malaysian citizen</li> <li>• No age limit</li> <li>• Obtained admission or is already pursuing studies at an institution of higher education</li> <li>• Not a recipient of any scholarship or financial aid (other than allowance as a graduate Researcher Assistant)</li> <li>• Is currently pursuing or intends to pursue full-time postgraduate studies.</li> </ul>	<ul style="list-style-type: none"> <li>• Malaysian citizens who are executives currently working in industry or private companies (inclusive of employees of GLC status companies) who are directly involved in research and development, innovation and in increasing the competitiveness of the industry.</li> <li>• Obtained admission into or is already pursuing studies at an institution of higher education</li> <li>• Not a recipient of any scholarship or financial aid (other than allowance as a graduate Researcher Assistant)</li> <li>• Is currently pursuing or intends to pursue full-time postgraduate studies.</li> </ul>
<b>Academic requirements</b>		
<ul style="list-style-type: none"> <li>• Bachelor's degree or government-recognised equivalent with a minimum CGPA of 2.75&lt;</li> </ul>	<ul style="list-style-type: none"> <li>• Master's degree with a minimum CGPA of 3.00 OR</li> <li>• Master's student who has been approved by Senate to proceed to a PhD programme</li> </ul>	<ul style="list-style-type: none"> <li>• Master's degree or equivalent with minimum CGPA of 3.0 with at least 3 years of working experience OR</li> <li>• Master's student who has been approved by Senate to proceed to a DEng programme</li> </ul>
<b>Value of scholarship</b>		
<ul style="list-style-type: none"> <li>• Tuition fees of up to RM10,000 for 24 months paid directly to the institution</li> </ul>	<ul style="list-style-type: none"> <li>• Tuition fees up to RM24,000 maximum for a period of not more than 48 months</li> </ul>	<ul style="list-style-type: none"> <li>• Tuition fees up to a maximum of RM50,000 for a study period of not more than 48 months</li> </ul>

<b>Institutions</b>		
<ul style="list-style-type: none"> <li>Public and selected private institutions of higher education</li> </ul>		
<b>Areas of study</b>		
<ul style="list-style-type: none"> <li>Science and Technology</li> <li>Social sciences and Liberal arts</li> </ul>		<ul style="list-style-type: none"> <li>Engineering, Science and Technology</li> </ul>
<ul style="list-style-type: none"> <li>Sponsorship recipients and a guarantor must enter into a contract with the government in agreement to complete their studies during the sponsorship period.</li> <li>Students will be required to reimburse the sponsorship if they a) drop out or postpone their studies without permission b) are expelled by the institution of higher education due to disciplinary problems / academic weakness or inability to keep to the rules of the institution c) failed in their studies</li> </ul>	<ul style="list-style-type: none"> <li>Recipients will be bonded under a contract and required to work in Malaysia or any organisation that has beneficial links to Malaysia for five (5) years.</li> </ul>	-
<b>Application</b>		
<ul style="list-style-type: none"> <li>Application is open year-round until 2015. Sponsorships will be offered in four (4) phases in January, April, July and October every year.</li> <li>Applicants are required to apply online via the MyBrain15 website.</li> <li>Prior to applying, applicants must obtain an offer letter from a recognised institution of education and prepare a research proposal.</li> <li>Selection for recipients will be made by the selection committee chosen by the Ministry of Higher Education.</li> </ul> <p>For application details, visit <a href="http://www.mohe.gov.my/MyBrain15">www.mohe.gov.my/MyBrain15</a>.</p>		





## FACULTY OF ELECTRICAL ENGINEERING

Electrical engineering forms the fundamental study to the generation, distribution and utilisation of energy efficiently. There will be significant growth in research, development and manufacturing activities in the field of electrical engineering and it constitutes the basis for valuable and worthwhile careers for well-qualified graduates. The Faculty offers a wide range of laboratories, fully equipped with the latest teaching and learning equipment with the ratio of TWO (2) to THREE (3) students per station. This arrangement will suit the teaching and learning concepts based on problem centered, action learning and practical application as stipulated in the Practice and Application Oriented approach. The Faculty promotes excellence in education and research in the areas of electrical engineering. There are boundless opportunities for new ideas, discovery and the meeting of minds. The valuable experience will enable the students to discover their full potential while at the same time to prepare themselves for the future.

### List of Postgraduate Programmes

By Research:

- Doctor of Engineering
- Doctor of Philosophy
- Master of Science in Electrical Engineering
- Master of Science in Mechatronic

By Mixed Mode:

- Master of Electrical Engineering
  - Industrial Power
  - Power Electronics and Drives
  - Robotics and Control

### Research Focus

#### Doctor of Philosophy and Master of Science (Research Mode)

- High Voltage Technology
- Power Electronics and Drives
- Mechatronic System
- Robotic and Industrial Automation
- Sustainable Energy & Power System

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## 54 FACULTY OF ELECTRONICS AND COMPUTER ENGINEERING

The faculty plays a very important role in producing engineering graduates who have a strong knowledge in electronics and computer engineering as well as technical competency. Based on the outcome based education concept, through the application and practice oriented approach, graduates can now readily serve and contribute effectively towards the development of electronic engineering and its related industries globally.

### List of Postgraduate Programmes

By Research:

- Doctor of Engineering
- Doctor of Philosophy
- Master of Science in Electronic Engineering

By Taught Course:

Master of Electronic Engineering

- Telecommunication System
- Computer Engineering
- Electronic System

### Research Focus

#### Doctor of Philosophy and Master of Science (Research Mode)

- Antenna and Propagation
- Computer and Embedded System
- Consumer Electronic
- Electronics Instrumentation
- Optoelectronics
- RF and Microwave Engineering
- Satellite and Navigation System

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## FACULTY OF MANUFACTURING ENGINEERING

Manufacturing Engineering is a branch of engineering that requires knowledge and experience in order to fully grasp, exploit and control all the engineering techniques in manufacturing process and methods of producing products. It also requires aptitude to plan for manufacturing methods, research and develop tools, process and machines as well as the ability to combine facilities and systems in the intention of producing cost-effective products in a more feasible way.

The Manufacturing Engineering Program in UTeM is developed to instill a strong engineering basics and core, so that graduates of this program are proficient in solving manufacturing engineering problems. Theoretical aspects learnt are equipped with practical sessions, analogous with the engineering education approach of application oriented. This will ensure graduates of manufacturing engineering are able to function effectively in their career.

### List of Postgraduate Programmes

#### By Research:

- Doctor of Engineering
- Doctor of Philosophy
- Master of Science in Manufacturing Engineering

#### By Taught Course:

Master of Manufacturing Engineering

- Manufacturing System Engineering
- Industrial Engineering
- Quality System Engineering
- Precision Engineering

### Research Focus

#### Doctor of Philosophy and Master of Science (Research Mode)

- Design and Concurrent Engineering
- Advanced Manufacturing Processes
- Autonomous & Intelligent Manufacturing
- Competitive Manufacturing
- Engineering Materials

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FACULTY OF MANUFACTURING  
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## FACULTY OF MECHANICAL ENGINEERING

The Faculty of Mechanical Engineering (FKM) is one of the seven faculties that being established in UTeM. The main focus of FKM is to train students to become competent engineers who will fulfill the much-needed engineering professionals especially for the industrial sector in Malaysia.

In line with the university plan, establishment of postgraduate programmes is one of strategic planning in order to strengthen academic and research capability. Taking into account the national agenda, pertinent industrial needs and state of the art of knowledge development, the faculty developed their postgraduate programs on some focused area.

The faculty is fast growing in the aspects of academic programmes, infrastructure, facilities, and teaching staff to meet the objectives of its existence. The balance between academic and technical - based training is emphasized so that postgraduates will be more competent and confident to face the challenge in their future career.

### List of Programmes

#### By Research:

- Doctor of Engineering
- Doctor of Philosophy
- Master of Science in Mechanical Engineering

#### By Mixed Mode:

Master of Mechanical Engineering

- Applied Mechanics
- Energy
- Automotive

#### By Taught Course:

Master of Mechanical Engineering

- Structure Mechanics
- Energy Engineering
- Automotive
- Product Design

### Research Focus

#### Doctor of Philosophy and Master of Science (Research Mode)

- Thermal Fluids
- Structural Mechanics & Advanced Materials
- Design & Innovation
- Automotive Engineering
- Energy Engineering

FACULTY OF MANUFACTURING ENGINEERING  
FKM

FAKULTI KEJURUTERAAN MEKANIKA

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## FACULTY OF INFORMATION & COMMUNICATION TECHNOLOGY

Information and Communications Technology (ICT) is an integration of four major domains namely, software development, computer system and internetworking, database and rich media content development. Today, ICT is one of the fastest deployed technologies in the world. The use of ICT encompasses almost all the industries and certainly, the demand for ICT manpower and professionals is expected to increase tremendously.

The Faculty of Information and Communication Technology (FTMK) at UTeM offers excellent practice and application orientated education programmes in ICT. The main goal is to produce competent and industrially relevant ICT professionals with not only adequate theoretical knowledge and foundation but also more importantly the skills and ability to practice. The faculty is also, in line with its vision to be one of the world's leading centers of excellence in ICT, offering opportunities for application-oriented and industrially relevant research and development.

### List of Programmes

By Research:

- Doctor of Philosophy
- Doctor of Information Technology
- Master of Science in Information and Communication Technology

By Taught Course:

Master of Computer Science

- Internetworking Technology
- Database Technology
- Software Engineering and Intelligence
- Security Science
- Multimedia Computing

### Research Focus

#### Doctor of Philosophy and Master of Science (Research Mode)

- Software and Information Systems Engineering
- Data and Knowledge Engineering
- Artificial Intelligence, Modeling and Decision Technology
- Networking and Internet Computing
- Computer Systems and Security

### Contact Us

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FACULTY OF INFORMATION &  
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**FTMK**



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## **FACULTY OF TECHNOLOGY MANAGEMENT & TECHNOPRENEURSHIP**

Faculty of Technology Management and Technopreneurship was established to provide postgraduate educations and training in the field of Technology Management and Entrepreneurship. The Master of Science is designed for those who are involved in the technological based industry and want to further their career in the areas of Technical and Business Management. The programme is also for those who are aspired to be a successful manager in the area of Entrepreneurship.

### **List of Programmes**

By Research:

- Doctor of Philosophy
- Master of Science in Technology Management
- Master of Science in Entrepreneurship

By Taught Course:

Master of Business Administration

- Advanced Operations Management
- Technology and Innovation Management

### **Research Focus**

#### **Doctor of Philosophy and Master of Science (Research Mode)**

- Entrepreneurship
- Technology Management

FACULTY OF TECHNOLOGY  
MANAGEMENT & TECHNOPRENEURSHIP  
**FPTT**

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10.	Dr. Juhaini binti Jabar	PhD.	juhaini@utem.edu.my	Technology Management
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**INSTITUTE OF TECHNOLOGY MANAGEMENT & ENTREPRENEURSHIP**

Institute of Technology Management and Entrepreneurship (IPTK) is an Institute established to provide postgraduate educations and training in the field of Human Resource Development (HRD), Technical Communication and Industrial Counseling. The Doctor of Philosophy and Master of Science offered by IPTK explore and examine contemporary issues and challenges with the aims of providing the latest knowledge and solutions these areas. To achieve these aims, the diversity of expertise under IPTK provides the students with an avenue of undertaking multidisciplinary research approach, thus enriching them with exciting new exposure which could be translated into pragmatic strategies and practices in the areas of Human Resource Development, Technical Communication and Industrial Counseling.

**List of Programmes**

By Research:

- Doctor of Philosophy
- Master of Science in Human Resource Development
- Master of Science in Technical Communication
- Master of Science in Industrial Counseling

**Research Focus****Doctor of Philosophy and Master of Science (Research Mode)**

- Human Resource Development
- Technical Communication
- Industrial Counseling

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## APPLICATION FOR ADMISSION

Application can be made throughout the year. Prospective students are required to submit their application online via <http://portal.utem.edu.my/ismps/>. All supporting documents together with the RM30.00 (for local) and RM 60.00 (USD 25.00 for international) (non-refundable) processing fee must be submitted by mailing it to:

**Dean  
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**For further details, please contact:**

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KAFETARIA PELAJAR 2

PUSAT PERSATUAN PELAJAR

PUSAT PENGAJIAN SISWAZAH

DEWAN BESAR

DEWAN SUKAN

PUSAT BAHASA DAN PEMERKUPAAN INSIAN

PEJABAT HAL EHWAL PELAJAR DAN ALUMNI

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