

POSTGRADUATE PROSPECTUS 2022/2023 Centre for graduate studies Universiti teknikal malaysia melaka

قوست ڤڠاجين سيسوازه PUSAT PENGAJIAN SISWAZAHEKNIKAL MALAYSIA MELAKA



ALWAYS A PIONEER, ALWAYS AHEAD

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FIRST PUBLISHED 2022

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Published and Printed in Malaysia by: Penerbit UTeM Press Universiti Teknikal Malaysia Melaka Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia. Tel: +606 270 1241 Faks: +606 270 1038

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA



Welcome to Universiti Teknikal Malaysia Melaka

Established on 1st December 2000 as the 1st Technical Public University in Malaysia and the first to offer higher technical education using the application-oriented approach with relatively strong emphasis on practical work and application. As a Focus University, UTeM boasts strengths in technical fields – namely Engineering, IT, and Technology Management. UTeM has cemented a reputation of being the source of high-quality engineering graduates with the capability of meeting the requirements of high-tech industries. Validating our tagline "Always A Pioneer, Always Ahead", UTeM will stride ahead in pioneering and trail blazing new initiatives through academic programmes that support the aspiration of higher technical education with an enhanced emphasis in developing pronounced technical skills (TVET) among its graduates. UTeM also has research competencies in "Advanced Manufacturing and Computing Technology" that has been identified as being key to enhancing the University's unique proposition and also contributes to the nation.





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.



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.

Why Study @ UTeM



ACCREDATION ACADEMIC PROGRAMMES

Postgraduate Programmes accredited by the Malaysian Qualifications Agency(MQA).

STRATEGIC LOCATION

UTeM is situated in the UNESCO world heritage city of Melaka, just about 148 kilometres (92 miles) southeast of Malaysia's capital city Kuala Lumpur. Studying in UTeM, one can explore the unique wonder of world heritage city of Melaka, one of leading diverse and muti-cultural cities in the world.

FOCUS UNIVERSITY

As a Focus University, UTeM boasts strengths in technical fields – namely Engineering, IT, and Management Technology. UTeM has cemented a reputation of being a source of high-quality engineering graduates with the capability of meeting the requirements of high-tech industries.

STRONG INDUSTRIES/UNIVERSITIES ENGAGEMENT

With more than 100 industries and universities (local and international) collaborative partners, UTeM offers its students whether student mobility, joint research programmes and involment in real-industry experience.

MODERN LAB FACILITIES

More than 100 modern laboratories with high technologies for TnL and R&D activities for postgraduate students.

INNOVATIVE TEACHING

Besides conventional lectures, our faculties implement innovative teaching and learning techniques with conducive classroom surroundings and reliable e-learning system.

UP-TO-DATE RESEARCH

We will guide your research interest with our advanced facilities and transform it to become relevant, high-impact and profitable outcomes.

GREAT DIVERSITY

UTeM is a place of study to more than 600 international students from more than 25 countries in a melting pot of diversity and global culture.

QUALITY ASSURANCE

Since 2005, UTeM has maintained the MS ISO 9001:2015 certification, being the one of the Malaysian public higher education institution to receive a Quality management systems certification for all its academic processes.







Find out more popular attraction in Melaka@UTeM Visit: https://www.melaka.gov.my/ms/pelancongan/info-pelancongan/tempat-tempat-menarik PPS



UTeM Facts and Figures ()



Centre for Graduate Studies



Recognized Postgraduate Programmes

- 13 Programmes Doctoral (PhD/DEng/DIT/DTM)
- **11** Programmes Master By Research
- 1 Recognized Postgraduate Programmes
- 28 Programmes Master By Taught Course



106 – Associate Professors

426 - Senior Lecurers

220 – Lecturers

17 – Languages Teachers

2 Campuses 7 Faculties 1 Institute

1 Language Centre



Advanced Manufacturing & Computing Technology (AMCT) Niche areas

- **4** Research Clusters 6 Centre of Excellence
- 30 Research Groups
- 3 CEO@Faculty
- More than 100 Industries Partners Collabaration



WELCOME TO 1ST TECHNICAL PUBLIC UNIVERSITY

Professor Ts. Dr. Massila Kamalrudin Vice Chancellor Universiti Teknikal Malaysia Melaka

Praise be to the Almighty Allah S.W.T. for His mercy and blessings which has enabled us to publish the Postgraduate Prospectus for 2022/2023 edition. The publication of this edition clearly illustrates the persistence, commitment and dedication of all parties involved, especially from the Centre for Graduate Studies, Universiti Teknikal Malaysia Melaka (UTeM).

UTeM operates from two campuses namely the Main Campus and the Technology Campus. As the first technical public university in Malaysia, UTeM provides in-depth specialization in engineering, engineering technology, ICT, Technology Management and Technopreneurship. The programmes offered at UTeM are highly specialised. The curriculum is collaboratively designed with industry experts to ensure its quality and relevance are aligned to the needs of the thriving industrial sectors, henceforth producing highly-skilled human resources for the development of Malaysia. With this in line, Malaysia is set to become a high-income nation by 2030.

For slightly more than two decades of establishment, UTeM has fostered considerable dynamic ties with local and international partners and corporations including renowned universities, industries and agencies. These strategic synergies have resulted in diverse advancements in research collaborations and consultations, internships and attachments, knowledge and expertise-sharing, technology transfer and innovation. Moving forward, UTeM aspires to explore, enhance and intensify more strategic relations with our regional and global counterparts, with the anticipated mission of prospecting collaborative pursuits in high impact research, eminent academia exposure and value-added cultural exchange.

In accelerating and elevating research, innovation, development and commercialization, UTeM has established RICE Centre (Research, Innovation, Commercialization and Entrepreneurship). The establishment of this centre is to strengthen the collaboration of research activities between UTeM and the State Government. RICE Centre will cater to any research activities in the field of Advanced Manufacturing and Computing Technology which is supported by four Thrust Areas - Green Technology, Systems Engineering, Human Technology Interaction and Emerging Technology. These thrust areas are multidisciplinary in nature, which include and draw on the strengths of existing faculties, research centres, laboratories and institute within the university.

May the publication of this Postgraduate Prospectus 2022/2023 be purposeful especially to our potential stakeholders. Regardless of your motivations, embarking on postgraduate study opens a plenitude of opportunities and pursuing this academic extension will certainly leave a mark in your lives. Always A Pioneer, Always Ahead.

POSTGRADUTE STUDY AT UTeM

Professor Dr. Mohd Rizal bin Salleh

Dean, Centre for Graduate Studies Universiti Teknikal Malaysia Melaka

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 for more information.



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RESEARCH AND INNOVATION

UTeM experiences significant achievements in research activities as it endeavours to be one of the world's leading innovative and creative technical universities. The number of papers published in reputable journals has increased substantially. An upsurge in research funding and sizeable postgraduate population reflects a persistent growth of its research activities.

UTeM has identified "Advanced Manufacturing and Computing Technology (AMCT)" as its niche area. The multidisciplinary nature of its thrust areas and research clusters draws the strengths of existing faculties within the University and enhances research and innovation activities. The niche area requires the synergistic commitment of all faculties and underpinned by four thrust areas as follows; Green Technology, System Engineering, Human-Technology Interaction and Emerging Technology.

UTeM has also established a central body, known as the Centre for Research and Innovation Management (CRIM) to effectively coordinate, assess and promote all research activities at the University. The Centre also seeks out commercial application for the products, technology and services the research produces. The establishment of Centre of Excellences (COEs) at each faculty drives researchers at UTeM. CoEs are aimed to lead research and innovation in AMCT by actively incorporating the multidiscipline experts in engineering and technology to create strategic knowledge and innovation of the future with smart university-industry partnerships for wealth creation in line with university aspirations. UTeM builds on individuals and group excellence, stimulates growth and innovative thinking, and creates greater wealth for individuals, businesses and community at large, in terms of one nation's economic and social benefits.







PPS





Teaching and Learning Facilities



Laman Hikmah Library





Cyber Hall



Health Centre



Mosque



Computing Facilities and Support



Transportation and Travel









ڤوست ڤڠاجين سيسوازه PUSAT PENGAJIAN SISWAZAH

CENTRE FOR GRADUATE STUDIES

The Centre for Graduate Studies (PPS) of Universiti Teknikal Malaysia Melaka (UTeM) was established to further enhance the contributions in the area of engineering, computing 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 students on the range of programmes offered. The ability to respond to students 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 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.

PPS

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.



POSTGRADUATE PROGRAMMES IN UTeM

MODES OF STUDY

UTeM provide opportunities to acquire knowledge and skills that complemet current degree and help candidate candidate to achieve personal and career development goals. Therefore, we provide three (3) different modes of postgraduate study in UTeM.

Research	Research is the principal requirement and candidates will be accessed by the submission and examination of thesis. Candidates may be required to take some compulsory related courses as prescribed by the University. Candidate is supervised by a panel of supervisors (UTeM or Industry).
Mixed Mode	Mixed mode refers to a programme which combine courses and research works. Candidates are required to complete coursework credits and to submit a dissertation.
Taught Course	Candidates are required to acquire a specified number of coursework credits. Certain coursework programmes may require the submission of a research report.

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

DOCTORAL PROGRAMMES

- 1) Doctor of Philosophy (PhD)
- 2) Doctor of Engineering (DEng)
- 3) Doctor of Information Technology (PDIT)
- 4) Doctor of Technology Management (DTM)

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.

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Programmes Offered:

- Electrical Engineering
- Electronic Engineering
- Mechanical Engineering
- Manufacturing Engineering
- Information and Communication Technology
- Technology Management
- Entrepreneurship

Mode of Registration	Full Time	Part Time
Duration (years)	3-8	4-8

Programme Structure

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

Doctor of Engineering (DEng)

Doctor of Engineering (DEng) is a 3-year 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 program 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 industrial 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 Electronic and Computer Engineering

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- Faculty of Mechanical Engineering
- Faculty of Manufacturing Engineering

Programme Structure

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

	Particular					
Taught Course	Modules are designed to enhance candidates' knowledge in the related Engineering and Business Management courses. Candidate should take two (2) university courses and four (4) technical courses.					
Research	Based on real industrial problems. Research is carried out in the selected industry. Thesis is submitted at the end of the study.					

Programme Plan:

1.1

Candidates are expected to undertake 6 Master level courses (18 credit hours) advised by the respective faculty. Candidate is suggested to complete 90 credits of graduation requirement in phases as follows:

- PM		L 16			10 m m m m m m m m m m m m m m m m m m m	Sec. 1	
Phase	Year 1 Yea		Year 1 Year 2 Year 3		Total Credit		
Flidse	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	Sem 2
P1: Coursework	3 credits	3 credits	3 credits	3 credits	3 credits	3 credits	18 credits
P2: Research in Industry	72 credits				72 credits		
Total				90 credits			

The candidate will normally be advised by a minimum of one academic supervisor and 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.

Doctor of Information Technology (PDIT)

Doctor of Information Technology offers a unique 3½ years programme 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 should begin their studies in common semester according to the university academic calendar.

Areas of Research:

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

Programme Plan:

Candidate is suggested to complete 91 credits of graduation requirement in 3 phases as follows:

Phase	Yea	ar 1	Yea	ar 2	Yea	ar 3	Yea	ir 4	Total Credit
	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	
P1: Coursework	9 credits	12 credits							21 credits
P2: Research Preparation	N	ALAYSIA	14 credits						70 ere dite
P3: Research	NIN Y		ALLAK.	14 credits	14 credits	14 credits	14 credits		70 credits
	TEA	•	Тс	otal	1				91 credits
UIGIVI اونيونه سيتي تيڪنيڪل مليسيا ملاك									
UNIVERSITI TEKNIKAL MALAYSIA MELAKA									

Doctor of Technology Management (DTM)

UTeM is offering Doctor of Technology Management (DTM) to meet the needs of professionals who aspire to or hold knowledge and skills in Technology Management including management skills that can be demonstrated in the context of use. DTM is a 3-year taught course programme that is designed to adapt rapid technological developments through continuous learning and research activities. Understand and appreciate effective management skills, collaborative efforts and leadership roles in their careers. Identify and hold fast to the ethical stand in carrying out professional management activities.

Programme Plan:

Candidate is suggested to complete 80 credits of graduation requirement as follows

Taught Courses	Semester	Year	Total Credits
Compulsory	1		6
Foculty Coro	1	1	9
Faculty Core	2		15
Dragram Cara	3	2	15
Program Core	4.5	2	و ب 13 سب
Doctorate Thesis 1	5	2	10
Doctorate Thesis 2	KNIK6AL M	ALAY	SIA ME ¹² AKA
Total			80 credits

MASTER PROGRAMMES

- 1) Master By Research
- 2) Master By Mixed Mode
- 3) Master By Taught Course

Master by Research

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)	1-2	2-5

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Pogramme Structure

PPS

Module	Course	Credit Hours
Compulsory Courses	Research Methodology	3
University Elective	Entrepreneurship	
Courses (Choose One)	Engineering & Technology Management 3	
	Project Management	
	Quality System Management	
ALAY	30	
at MALIN	36	

Master 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 programme develops the research skill of the students on top of enhancing the theoretical knowledge of the subject area.

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Programmes Offered:

• Master of Electrical Engineering (Industrial Power)

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

Master 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 courses 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 hours which comply with the Malaysia Qualification Agency (MQA), of study comprise a combination of compulsory courses, 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.

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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I can say that university life in UTeM is one of the best journeys of my life. The environment in this university was like a family where the staffs were very helpful and the lecturers were kind, resourceful and approachable. Laman Hikmah was my favourite spot during my study days. This is because the serenity and quiet environment provided by it has fuelled up my focus and concentration to do my research. UTeM has offered me opportunities to grow as a person. I learned to manage my time wisely, interact and cooperate with different nationalities and backgrounds, strive to achieve my goals and objectives in whatever obstacles I have to face during the study. Therefore, I would like to express my gratitude and thank you to UTeM for given me the opportunity to be part of the post-graduate students here.

Nurul Ibtisyami Binti Yasin Master of Technovation



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The environment and facilities in UTeM are mostly highly qualified and accessible. Moreover, I am grateful that I have a great experience, support, and mentoring, especially from my supervisors, who are experts in their respective research fields. Even outside university hours, they are very dedicated to assist me with my project and other matters. Despite the COVID-19 situation, postgrad students still have access to return to the campus to work on research projects, of course, with safety guidelines arranged by the university. I am proud to be a student at this university.



Nuratiqah Natrah binti Mansor Master of Science in Mechatronic Engineering

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as a postgrad student, UTeM provided me an ample opportunities to learn. The compulsory postgrad classes were helpful in teaching me the right way to write my thesis. I was also very lucky to have a respectable supervisor who went beyond his way to guide me throughout my masters journey. Thanks FKM and UTeM for the experience!"

Fairuz Mardhiah Binti Mahidan Master of Science in Mechanical Engineering Pro Chancellor Award, 17th UTeM Convocation

MALAYSIA

I always believe that the best reward for your hard work, determination and perseverance is a massive success. Warmest thanks to my supervisor, co-supervisor, friends and all the UTeM staff, particularly from the Faculty of Mechanical Engineering, for their endless support, inspiration and motivation during those memorable times. I'm proud to be a part of UTeM, the first technical university in Malaysia, which not only provide a platform for me to complete my PhD, but also help me to groom my overall personality. Thank you, UTeM.

Dr. Ng Lin Feng Doctor of Philosophy Best Thesis Award, 17th UTeM Convocation

I have decided to further my study at UTeM because UTeM is one of the best universities in engineering, which also offers the lowest tuition fee for the Master programme by Taught Course. Besides, the programme is conducted in the modular course, which I believed convenient for students to focus on the learning process. UTeM has offered the best learning condition for me, and I am glad that I choose UTeM.

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I would like to express my sincere thanks to Profesor Ts. Dr. Massila Binti Kamalrudin for her valuable guidance and advice regarding my research work through my PhD journey. Without her support, I can't be here, her advice and her encouragement were always driving me to put more effort in my student life and very supportive to accomplish my work. I also would like to thank IPTK family and all UTeM staff for their cooperation and support during the study. There is no doubt, UTeM as an International University provided a great opportunity for me along with other students coming from different countries, to communicate for sharing knowledge and experiences for better education and future. Thank you UTeM.



Wafa Ali Rashed Al Tayari Binlbrahim Doctor of Philosophy

My name is Hatem Duhair, being a master student at UTeM was a challenging journey that need a lot of effort, long night studying and hard work but also a fruitful and interesting one. UTeM does a fantastic job in preparing the master students for their future during help them write-up and give them a lot of technical skills and knowledge. I have been impressed by the teaching and research environment in UTeM. I will always be grateful to Institute of Technology Management and Entrepreneurship, Faculty of Electronics and Computer Science. My supervisor Dr Massrullizam Mat Ibrahim, he helps me and stand with me along my journey at



UTeM and that show how much effort and work that the UTeM doctors and stuff do for their students. In the one and half years now of my master journey, I attended many international conferences which helped me strengthen my academic networks and give me much knowledge and open mind-set to the new world challenges

Hatem T.M. Duhair Masters of Electronic Engineering (Electronic System) I have a peaceful environment and very conducive facilities during my study in UTeM. I am also very grateful to have a very understanding supervisor in guiding my PhD research from the beginning till the end. UTeM also ease me to settle my PhD submission process in long distance without have to travel far across the state during the COVID crisis. Thank you UTeM.

Nor Amalina Binti Mohd Sabri PhD, Computer Science

MALAYSIA

Being a PhD student at UTeM was a challenging journey but also a fruitful one. UTeM does a fantastic job in preparing the PhD students for their thesis write-up and defense. I have been impressed by the research environment in UTeM. I will always be grateful to institute of technology management and entrepreneurship and my supervisor, thesis committee members and fellow PhD colleagues. In the three and half years of my PhD journey, I attended many international conferences which helped me strengthen my academic networks.

Essa Yousuf Majid Alsuwaidi Doctor of Philosophy

UNIVERSITI TEKNIKAL MALAYSIA ME

Completing my PhD in Manufacturing Engineering in three years proves that the UTeM is the best choice for postgraduate studies. My three years at UTeM were extremely beneficial to both my life and career. My PhD supervisor's mentoring style is very adaptable and supportive. The knowledge of conducting research and publishing high-impact publications has been well transferred and practiced. Pursuing postgraduate studies here is an opportunity that should not be passed up.



Ts. Dr. Mohd Fairuz bin Jaafar Manufacturing Engineering Chancellor Award



LIST OF PROGRAMMES OFFERED AND FEES BY FACULTIES AND INSTITUE

Faculty of Electrical Engineering

Electrical engineering forms the fundamental study to the generation, distribution and utilisation of energy efficiently. There will be a 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



cantered, 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.

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Research Focus Area

- High Voltage Technology
- Power Electronic and Drives
- Mechatronic System
- Robotic and Industrial Automation
- Sustainable Energy & Power System
List of Postgraduate Programmes

No.	Postgraduate	te MQA Reference Study			de of tion (Year)	Programme Fees (MYR)	
NO.	Programme	Number	Study Mode	Full Time	Part Time	Citizen	Non- Citizen
1	Doctor of Philosophy	MQA/ FA5628	RESEARCH	3 - 8	4 - 8	16264	29728
2	Doctor of Engineering	MQA/ FA5629	RESEARCH	3 - 8	-	38830	-
3	Master of Science in Electrical Engineering	MQA/ FA5630	RESEARCH	2 - 5	3 - 5	5986	10432
4	Master of Science in Mechatronic Engineering	MQA/ FA5632	RESEARCH	2 - 5	3 - 5	5986	10432
5	Master of Electrical Engineering (Industrial Power)	MQA/ FA5631	MIXED MODE	2 - 3		7260	11985
6	Master of Mechatronics Engineering	MQA/ FA9765	TAUGHT COURSE	1-2	294	6790	11290
7	Master of Electrical Engineering	MQA/ FA9764	TAUGHT COURSE	AY15-12. N	1E2-4KA	6790	11290

Contact us:

Faculty of Electrical Engineering Universiti Teknikal Malaysia Melaka (UTeM) Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia

Phone: +606 - 270 2112 | Website: http://fke.utem.edu.my

Faculty of Electronic 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.



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

List of Postgraduate Programmes

No	No. Postgraduate MQA Reference		Study Mode		Mode of Programme Registration (Year) (MYR		
NO.	Programme	Number	Study Mode	Full Time	Part Time	Citizen	Non-Citizen
1	Doctor of Philosophy	MQA/ FA5633	RESEARCH	3 - 8	4 - 8	16264	29728
2	Doctor of Engineering	MQA/ FA5634	RESEARCH	3 - 8	-	38830	-
3	Master of Science in Electronic Engineering	MQA/ FA5635	RESEARCH	2 - 5	3 - 5	5986	10432
4	Master of Electronic Engineering (Computer Engineering)	MQA/ FA5637	TAUGHT COURSE	1 - 2	2 - 4	6790	11290
5	Master of Electronic Engineering (Electronic System)	MQA/ FA5638	TAUGHT COURSE	بتى ² ن ىڭ	يوم-4	6790	11290
6	Master of Electronic Engineering (Telecommunication System)	MQA/ FA5636	TAUGHT COURSE	ALAYSI/ 1-2	2 - 4	6790	11290

Contact Us

Faculty of Electronic & Computer Engineering UniversitiTeknikal Malaysia Melaka (UTeM) Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia

Tel: +606 2702271 | Website: <u>https://portalfkekk.utem.edu.my</u>

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 of



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.

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

List of Programmes

No.	No. Postgraduate Programme Reference Stud		Study Mode	Mode Registi (Yea	ration	Programme Fees (MYR)	
		Number		Full Time	Part Time	Citizen	Non- Citizen
1	Doctor of Philosophy	MQA/FA5639	RESEARCH	3 - 8	4 - 8	16264	29728
2	Doctor of Engineering	MQA/FA5640	RESEARCH	3 - 8	-	38830	-
3	Master of Science in Mechanical Engineering	MQA/FA5641	RESEARCH	2 - 5	3 - 5	5986	10432
4	Master of Mechanical Engineering	MQA/ FA10825	TAUGHT COURSE	1 - 2	2 - 4	6790	11290
5	Master of Mechanical Engineering (Energy Engineering)	MQA/FA1498	TAUGHT COURSE	1.5 – 2.5	3 - 5	6790	11290
6	Master of Mechanical Engineering (Automotive)	MQA/FA1499	TAUGHT COURSE	1.5 – 2.5	3 - 5	6790	11290
7	Master of Mechanical Engineering (Product Design)	MQA/ FA01500	TAUGHT COURSE	1.5 – 2.5	3 - 5	6790	11290

Contact Us

Faculty of Mechanical Engineering Universiti Teknikal Malaysia Melaka (UTeM) Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia

Tel: +606-270 4341 | Website: <u>https://fkm.utem.edu.my</u>

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 costeffective 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.

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

List of Postgraduate Programmes

No.	Postgraduate Programme	MQA Reference	Study Mode	Regist	le of tration ear)	-	nme Fees YR)
		Number		Full Time	Part Time	Citizen	Non- Citizen
1	Doctor of Philosophy	MQA/FA5642	RESEARCH	3 - 8	4 - 8	16264	29728
2	Doctor of Engineering	MQA/FA5643	RESEARCH	3 - 8	-	38830	-
3	Master of Science in Manufacturing Engineering	MQA/FA5644	RESEARCH	2 - 5	3 - 5	5986	10432
4	Master of Manufacturing Engineering (Manufacturing System Engineering)	MQA/FA5645	TAUGHT COURSE	1 - 2	2 - 4	7638	13564
5	Master of Manufacturing Engineering (Quality System Engineering)	MQA/FA5647	TAUGHT COURSE	1 - 2	2 - 4	6790	11290
6	Master of Manufacturing Engineering (Industrial Engineering)	MQA/FA5646	COURSE	1-2	2-4	6790	11290
7	Master of Manufacturing Engineering (Advanced Materials and Processing)	MQA/FA9176	TAUGHT	1 - 2	2 - 4	6790	11290

Contact Us

Faculty of Manufacturing Engineering Universiti Teknikal Malaysia Melaka (UTeM) Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia

Tel: +606-270 2571 | Website: <u>http://fkp.utem.edu.my</u>

Faculty of Information and 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.

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

No.	Postaraduato Programmo	MQA Reference Study Mode		Mode of Registration (Year)		Programme Fees (MYR)	
NO.	Postgraduate Programme	Number	Study Mode	Full Time	Part Time	Citizen	Non- Citizen
1	Doctor of Philosophy	MQA/FA5648	RESEARCH	3 - 8	4-8	16264	29728
2	Doctor of Information Technology	MQA/PA2100	MIX-MODE	3.5 - 8	-	16245	29520
3	Master of Science in Information and Communication Technology	MQA/FA5649	RESEARCH	1 - 2	2 - 5	5986	10432
4	Master of Computer Science (Internetworking Technology)	MQA/FA5650	TAUGHT COURSE	1.5 - 3	2 - 4	7090	11815
5	Master of Computer Science (Database Technology)	MQA/FA5652	TAUGHT COURSE	1.5 - 3	2 - 4	7090	11815
6	Master of Computer Science (Software Engineering)	MQA/FA5651	TAUGHT COURSE	1.5 - 3	2 - 4	7090	11815
7	Master of Computer Science (Security Science)	MQA/FA5653	TAUGHT COURSE	1.5 - 3	2 - 4	7090	11815
8	Master of Computer Science (Multimedia Computing)	MQA/FA1760	TAUGHT COURSE	1.5 - 3	2 - 4	7090	11815
9	Master of Technology (Data Science and Analytics)	MQA/FA9613	TAUGHT COURSE	1 - 3	2 - 4	9990	16890
10	Master of Software Engineering (Mobile Development)	MQA/FA9614	TAUGHT COURSE	1 - 3	2 - 4	9990	16890

Contact Us

Faculty of Information and Communication Technology Universiti Teknikal Malaysia Melaka (UTeM) Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia

Tel: +06 270 2411 | Website: http://ftmk.utem.edu.my

PPS

Faculty of Technology Management and Technopreneurship

Faculty of Technology Management and Technopreneurship (FPTT) UTeM was established to provide postgraduate educations and training in the field of Technology Management and Entrepreneurship. With its establishment, the faculty integrate a technology and business approach in enhancing the knowledge and skills of human capital. The FPTT curriculum was developed to address issues and challenges in managing the force of globalization, rapid pace of technological changes, government regulations as well as market diversity. Thus, FPTT plays a vital role in creating professionals at technology-



oriented companies, employees at large firms, founders of start-ups with knowledge in the areas of technology management and technopreneurship. By diversifying the courses into both functional and practice-based, graduates will be competent with the skills in technical marketing, managing technical human resources, and leadership and communication.

- Entrepreneurship
- Technology Management

List of Programmes

No. Postgraduate Program		MQA Reference	Study Mode	Mode of Registration (Year)		Programme Fee (MYR)	
NO.	Postgraduate Programme Reference Number		Study Mode	Full Time	Part Time	Citizen	Non- Citizen
1	Doctor of Philosophy	MQA/ FA5654	RESEARCH	3 - 8	4 - 8	16264	29728
2	Doctor of Technology Management	MQA/ PA9615	TAUGHT COURSE	3 - 6	4 - 8	41740	64640
3	Master of Science in Technology Management	MQA/ FA5655	RESEARCH	2 - 5	3 - 5	5986	10432
4	Master of Science in Entrepreneurship	MQA/ FA5656	RESEARCH	1 - 3	2 - 5	5986	10432
5	Master of Business Administration (Advanced Operations Management)	MQA/ FA5657	TAUGHT COURSE	2 - 4	2 - 6	14460	21210
6	Master of Business Administration (Technology and Innovation Management)	MQA/ FA5658	TAUGHT COURSE	ر ^{سه} -يې	2-6	14460	21210
7	Master of Technovation	MQA/PA 9612	TAUGHT COURSE	1.5 - 3	2 - 4	14990	20790

Contact Us

Faculty of Technology Management & Technopreneurship Universiti Teknikal Malaysia Melaka, Kampus Teknologi, Hang Tuah Jaya, 76100 Melaka, Malaysia

Tel: +606-270 8002 | Website: <u>https://fptt.utem.edu.my</u>

Institute of Technology Management and 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, Industrial Counseling, Business Information Management & Engineering Business Management.

Research Focus Area

- Management
- Entrepreneurship
- Human Resource Development
- Technical Communication
- Industrial Counseling
- Business Information Management
- Engineering Business Management

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List of Programmes

No.	Postgraduate	MQA Reference			Mode of Registration Study Mode (Year)		nme Fees IYR)
	Programme Number		Full Time	Part Time	Citizen	Non- Citizen	
1	Doctor of Philosophy	MQA/ FA5654	RESEARCH	2 - 4	3 - 7	16264	29728
2	Master of Science in Technical Communication	MQA/ FA13359	RESEARCH	1 - 2	2 - 5	5986	10432
3	Master of Science in Industrial Counseling	MQA/ FA13360	RESEARCH	1 - 2	2 - 5	5986	10432
4	Master of Science in Human Resource Development	MQA/ FA15299	RESEARCH	1-2	2 - 5	5986	10432
5	Master of Business Information Management	MQA/ PA12943	TAUGHT COURSE	2 ⁻¹ د	2-4	18000	25200
6	Master of Engineering Business Management	MQA/ PA12944	TAUGHT COURSE	1-2	2-4	18000	25200

Contact Us

Institute of Technology Management and Entrepreneurship Universiti Teknikal Malaysia Melaka (UTeM) Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia

Tel : +606 270 2811 | Website: https://iptk.utem.edu.my

HOW TO APPLY

GENERAL ENTRY REQUIREMENTS

Candidates must have the following academic qualification(s):

Doctoral Programme

- a) A Master's degree from UTeM or any other accredited institutions of higher learning recognised by the Senate ; 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 Programmes

- a) Engineering
 - A relevant Bachelor's Degree (honours) with good grades (minimum CGPA 2.75 or equivalent) from UTeM or any other institutions of higher learning recognized by the Senate.
 - Taught Course : A relevant Bachelor's Degree (honours) with good grades (minimum CGPA 2.5 or equivalent) from UTeM or any other institutions of higher learning recognized by the Senate.
- b) Computing
 - For Research Programme, a relevant Bachelor's Degree (honours) with good grades (minimum CGPA 3.00 or equivalent) from UTeM or any other institutions of higher learning recognized by the Senate.
 - For Taught Course Programme, a relevant Bachelor's Degree (honours) with good grades (minimum CGPA 2.75 or equivalent) from UTeM or any other institutions of higher learning recognized by the Senate.

- c) Technology Management/Entrepreneurship/ Business related programmes
 - For Research Programme, a relevant Bachelor's Degree (honours) with good grades (minimum CGPA 2.75 or equivalent) from UTeM or any other institutions of higher learning recognized by the Senate.
 - For Taught Course Programme, a relevant Bachelor's Degree (honours) with good grades (minimum CGPA 2.75 or equivalent) from UTeM or any other institutions of higher learning recognized by the Senate.
 - Applicants for the MBA programme must have at least CGPA 2.75 and one (1) year relevant working experience. For applicants with CGPA 3.00 and above, working experience is not necessary.
- * A Bachelor's degree (honours) or other relevant qualifications not meeting the above mentioned CGPA, can be accepted subject to a minimum of 5 years work experience in related fields.
- ** Any other qualification that is recognized as equivalent to a Bachelor's degree (honours) or other relevant qualifications and experience that are recognized by the Senate.

ENGLISH 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) or Malaysian University English Test (MUET) with the minimum required score listed in table below:

Related Programme	Level of Study	TOEFL	TOEFL iBT	IELTS	MUET
Engineering	Master	520	45	5.0	3
Engineering	Doctoral	550	60	5.0	4
Computing	Master	520	45	5.0	3
	Doctoral	550	60	5.0	4
Business Studies	Master	550	60	6.0	4
	Doctoral	550	60	6.0	4

- b) Applicants without TOEFL/IELTS/MUET 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 an international passport with at least TWO (2) years validity and meet all immigration procedures.
- f) Medical check-up by the health authorities.

APPLICATION FOR ADMISSION

You can complete your postgraduate application online.

With your application, you will need to provide the supporting documents listed in the application website <u>http://portal.utem.edu.my/ismps/</u>. Please check your course requirements before making an application.

In addition, applicants for research programme must also supply:

- a. A research proposal, and
- b. Verifiable references

Application deadline

There is no deadline for application, but we advise you to apply based on the university's calendar. You should also consider any deadlines for funding applications, or time needed to obtain a student visa, if required.

Application can be made throughout the year. Prospective students are required to submit their application online via <u>http://portal.utem.edu.my/ismps/</u>. 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:

Further information could be obtain in our informative website: http://pps.utem.edu.my/



FINANCIAL ASSISTANCE

SCHOLARSHIP

ZAMALAH https://pps.utem.edu.my/financial-assist/scholarship/zamalah.html

Yayasan Bank Rakyat https://www.yayasanbankrakyat.com.my/

LOAN

PTPTN https://www.ptptn.gov.my/

MARA

https://www.mara.gov.my/bm/pendidikan/pembiayaan-pelajaran/peringkat-pasca-siswazah/

KWSP https://www.kwsp.gov.my/home

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

POST GRADUATE 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 and Doctor of Philosophy through research 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 degree and THREE (3) years for Doctor of Philosophy.

Stipend:

Monthly Allowance:

Degree	Amount (RM)
PhD	1,800.00
MSc	1,500.00

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:



Centre For Graduate Studies

Universiti Teknikal Malaysia Melaka Hang Tuah Jaya, 76100 Durian Tunggal, Melaka, Malaysia.

https://pps.utem.edu.my/

UNIVERSITI TEKNIKAL MALAYSIA MELAKA





Website : www.utem.edu.my/penerbit Books Online : utembooks.utem.edu.my Email : penerbit@utem.edu.my