

MASTER OF PHILOSOPHY

FIELD OF RESEARCH: MECHANICAL ENGINEERING

PROGRAMME SPECIFICATION

The Master of Philosophy Field of Research: Mechanical Engineering (MKMM) is offered on a full-time basis. The duration of study is in between a minimum of one (1) year to a maximum of four (4) years. This master programme must be supervised by an academic staff (main supervisor) from the Graduate Faculty. The academic progress of a candidate is assessed through a research progress report submitted at the end of each semester as well as on the research proposal presented during proposal defense (mini-viva). The degree is awarded based on an examination of the thesis (including viva-voce) submitted by the candidate upon completion of the study

General Information

1. Awarding Institution		Universiti Teknologi Malaysia	
2. Teaching Institution		Universiti Teknologi Malaysia	
3. Programme Name		Master of Philosophy	
4. Final Award		Master of Philosophy Field of Research: Mechanical Engineering	
5. Programme Code		MKMM3	
6. Professional or Statutory Body of Accreditation		MQA	
7. Language(s) of Instruction		English	
8. Mode of Study		Research	
9. Mode of operation (Franchise, self-govern, etc)		Self-governing	
10. Study Scheme		Full Time	
11. Study Duration		Minimum : 1 year Maximum : 4 years	
Type of Semester	No. of Semesters		No of Weeks per Semester
	Min	Max	
Normal	2	8	14
Short	-	-	-

Course Classification

No	Classification	Credit Hours
i.	University Elective (1 course)	3
ii.	Research Methodology	HW
iii.	Research (Minimum 2 semesters)	0
iv	Thesis	0
	Total	3

Programme Educational Objectives (PEO)

PEO1: Graduates are able to incorporate in-depth relevant knowledge in engineering practices with capabilities to research, develop and integrate.

PEO2: Graduates are able to apply a wide range of relevant knowledge to critically analyze and solve problems related to engineering in various situations and contexts effectively and innovatively.

PEO3: Graduates are able to advocate and communicate ideas and/or solutions to mechanical engineering problems intellectually, ethically and professionally.

PEO4: Graduates able to adopt the latest relevant niche knowledge and technologies through life-long learning process.

Programme Learning Outcomes (PLO)

PLO1: Demonstrate advanced knowledge and capabilities to further develop or use these for new situations in mechanical engineering.

PLO2: Demonstrate research skills in appraising available information and research evidence, and applying them in mechanical engineering contexts.

PLO3: Apply critical thinking and problem-solving skills in addressing mechanical engineering problems utilizing relevant tools and techniques.

PLO4: Perform research on mechanical engineering problems professionally, ethically and responsibly.

PLO5: Communicate technical knowledge and ideas effectively in written and oral forms.

PLO6: Adopt the latest relevant knowledge and technologies through life-long learning.

GRADUATION CHECKLIST

Students must pass all the stated courses and assessment in this checklist to graduate. It is the responsibility of the students to ensure that all courses and assessment are taken and passed. Students who do not complete any of the assessments are not allowed to graduate.

NO.	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNTED (JKK)	TICK (✓) IF PASSED
SCHOOL OF MECHANICAL ENGINEERING COURSES					
1	UXXX XXX3	University Elective (1 course)			
2	UKMP 0010	Research Methodology			
3	MKMR XX00	Research (Minimum 2 semesters)			
4		Thesis			
5		Publication (minimum one (1) publication from journal article or conference proceeding or book chapter)			