

# MASTER OF PHILOSOPHY

## FIELD OF RESEARCH: CHEMICAL ENGINEERING

### PROGRAMME SPECIFICATIONS

The Master of Philosophy Field of Research: Chemical Engineering (MKKK) is offered on a full-time basis. The duration of study is in between minimum of one (1) year to a maximum of four (4) years.

The assessment of the research program is based on the progress report, supervisor's evaluation, research proposal and viva.

#### 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: Chemical Engineering		
5. Programme Code	MKKK		
6. Professional or Statutory Body of Accreditation	MQA		
7. Language(s) of Instruction	English		
8. Mode of Study (Conventional, distance learning, etc)	Research		
9. Mode of operation (Franchise, self-govern, etc)	Self-governing		
10. Study Scheme (Full Time/Part Time)	Full Time		
11. Study Duration	Minimum : 1 year Maximum : 4 years		
Type of Semester	No. of Semesters		No of Weeks/Semester
	Min	Max	
Normal	2	8	14
Short	-		-

### Course Classification

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

### Programme Educational Objectives (PEO)

PEO1: Graduate become the expertise in chemical industry decipline and contribute to national development.

PEO2: Graduate become a creative, innovative and adaptable senior engineer in their organization and society.

PEO3: Graduate contribute toward the environmental well-being and sustainable development.

PEO4: Graduate able to conduct research to add value to existing products.

### Programme Learning Outcomes (PLO)

PLO1: Ability to master the knowledge in chemical engineering discipline

PLO2: Ability to apply research skills in chemical engineering discipline.

PLO3: Ability to demonstrate effective communication skills in both written and oral form to report the scientific and technical facts.

PLO4: Ability to conduct professional ethics in research with minimal supervision and adhere to legal, ethical and professional code of practice.

PLO5: Ability to demonstrate leadership qualities and working effectively with peers and stakeholders.

PLO6: Ability to analyze problems in chemical engineering field using scientific and critical thinking approaches.

PLO7: Ability to manage information for lifelong learning and identify business opportunity in chemical engineering field.

### GRADUATION CHECKLIST

To graduate, students must pass all the stated courses and assessment in this checklist. 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 assessment are not allowed to graduate.

NO.	CODE	COURSE	CREDIT EARNED (JKD)	CREDIT COUNTED (JKK)	TICK (√) IF PASSED
<b>SCHOOL OF CHEMICAL &amp; ENERGY ENGINEERING COURSES</b>					
1	UXXX XXX3	University Elective (1 course)			
2	UKKP 0010	Research Methodology			
3	MKKK XX00	Research (Minimum 2 semesters)			
4		Thesis			
5		Publication (minimum one (1) publication from journal article or conference proceeding or book chapter)			