

# DOCTOR OF PHILOSOPHY

## FIELD OF RESEARCH: CHEMICAL ENGINEERING

### PROGRAMME SPECIFICATIONS

The Doctor of Philosophy Field of Research: Chemical Engineering (PKKK) is offered on a full-time basis. The duration of study is in between minimum of three (3) year to a maximum of eight (8) 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	Doctor of Philosophy		
4. Final Award	Doctor of Philosophy Field of research: Chemical Engineering		
5. Programme Code	PKKK		
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 : 3 years Maximum : 8 years		
Type of Semester	No. of Semesters		No of Weeks/Semester
	Min	Max	
Normal	6	16	14
Short	-		-

### Course Classification

No.	Classification	Credit Hours	Percentage
i.	University Elective (1 course)	3	
ii.	Research Methodology	HW	
iii.	Research (Minimum 6 semesters)	0	
iv	Thesis	0	
	<b>Total</b>	<b>3</b>	

### The Programme educational objectives (PEOs) are listed below;

PEO1: Enable graduate to incorporate in-depth knowledge in chemical engineering related areas

PEO2: Formulate, solve and conduct problems through effective and critical thinking skills

PEO3: Enable graduate to organise relevant knowledge and expertise through effective oral and written communications

PEO4: Enable graduate to develop relevant knowledge, promote professional and ethical responsibilities including contemporary issues and environmental awareness.

### The Programme learning outcomes (PLOs) are listed below;

PLO1: Able to demonstrate an in-depth advance knowledge in chemical engineering-related areas using the techniques and skills for chemical engineering practice.

PLO2: Ability to independently manage problem in scientific research, individually or collectively using acceptable methodologies and tools.

PLO3: Ability to articulate and convince ideas and findings through collaborative work, oral presentation and scientific/journal writing.

PLO4: Ability to perform intellectual honesty and integrity throughout the learning process

PLO5: Ability to perform lifelong learning from any resources.

PLO6: Ability to display work both independently and in team including providing motivation, and delegating tasks.

### 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	PKKK XX00	Research (Minimum 6 semesters)			
4		Thesis			
5		Publication (minimum one (1) referred article or two (2) indexed conference proceeding accepted as published in SCOPUS/ERA/WOS			