

# DOCTOR OF PHILOSOPHY

## FIELD OF RESEARCH: POLYMER ENGINEERING

### PROGRAMME SPECIFICATIONS

The Doctor of Philosophy Field of Research: Polymer Engineering (PKKR) 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: Polymer Engineering		
5. Programme Code	PKKR		
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>	

### Program Educational Outcomes (PEO)

- PEO 1: Graduates are able to incorporate in-depth relevant knowledge in engineering practices.
- PEO 2: Graduates are able to apply a wide range of relevant knowledge formulate, conduct and solve problems effectively and innovatively through critical thinking skills.
- PEO 3: Graduates are able to communicate effectively to convey and acquire technical information and recommendation intellectually, ethically and professionally.
- PEO 4: Graduates able to adopt the latest relevant niche knowledge and technologies through life-long learning process by taking into account safety, environmental, economic and societal impacts

### Program Learning Outcome (PLO)

- PLO 1: Incorporate continuing and advanced knowledge in polymer engineering related areas.
- PLO 2: Formulate hypothesis, design and reorganize research scientifically to solve problems.
- PLO 3: Analyze and evaluate problems critically in polymer engineering area, through effective thinking skills particularly in situations with limited information and provide solutions using appropriate tools and techniques.
- PLO 4: Display ideas and technical findings effectively in oral and written.
- PLO 5: Conduct professional ethics in research with minimal supervision and adhere to legal, ethical and professional code of practice.
- PLO 6: Adopt the latest relevant knowledge and technologies through life-long learning.

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