

MASTER OF PHILOSOPHY

FIELD OF RESEARCH: BIOPROCESS ENGINEERING

PROGRAMME SPECIFICATIONS

The Master of Philosophy Field of Research: Bioprocess Engineering (MKKB) 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: Bioprocess Engineering		
5. Programme Code	MKKB		
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	
	Total	3	

Program Educational Outcomes (PEO)

- PEO 1: Graduates are able to in-depth knowledge in bioprocess engineering related areas.
- PEO 2: Graduates are able to formulate and conduct problems through effective critical thinking skills.
- PEO 3: Graduates are able to apply a wide range of relevant knowledge through effective oral and written communications.
- PEO 4: Graduates able to adopt the latest relevant knowledge, balance professional and ethical responsibilities including contemporary issues and environmental awareness.

Program Learning Outcome (PLO)

- PLO 1: Apply advanced knowledge in bioprocess engineering related areas.
- PLO 2: Design and manage scientific research using acceptable methodologies through effective thinking skills.
- PLO 3: Analyze and evaluate critically problems in related areas through effective thinking skills and the application of appropriate tools and techniques.
- PLO 4: Demonstrate technical findings in both written and oral forms effectively.
- PLO 5: Adapt intellectual honesty and integrity in performing scientific work.
- PLO 6: Identify available information and research evidence and apply it in the relevant context.

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	CREDIT COUNTED	TICK (✓) IF
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			(JKD)	(JKK)	PASSED
SCHOOL OF CHEMICAL & ENERGY ENGINEERING COURSES					
1	UXXX XXX3	University Elective (1 course)			
2	UKKP 0010	Research Methodology			
3	MKKB XX00	Research (Minimum 2 semesters)			
4		Thesis			
5		Publication (minimum one (1) publication from journal article or conference proceeding or book chapter)			