BMS4206: FINAL YEAR PROJECT IN BIOMEDICAL RESEARCH

Effective Term
Semester A 2025/26

Part I Course Overview

Course Title
Final Year Project in Biomedical Research

Subject Code
BMS - Biomedical Sciences
Course Number
4206

Academic Unit
Biomedical Sciences (BMS)

College/School
College of Biomedicine (BD)

Course Duration
Two Semesters

Credit Units
0-8

Level
B1, B2, B3, B4 - Bachelor's Degree

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
Nil

Precursors
Nil

Equivalent Courses
Nil

Exclusive Courses
Nil

Part II Course Details

Abstract

This course aims to provide student an opportunity to work on a research project in a state-of-art research laboratory independently based on their knowledge acquired from lectures in different areas. In this course, students will do literature survey to find updated information about their research topic, get involved heavily in experimental design and execution. They should discuss the project topics with their assigned supervisor and review the progress on a regular basis. Students will give an oral presentation and submit a dissertation towards the end of the course as part of the course requirement.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Design and carry out an independent laboratory based project		x	x	x
2	Criticizes the scientific literature and analyse the experimental data			x	
3	Demonstrate the ability to make scientific observations and gather information		x	x	x
4	Evaluate the collected data and present it in both written and oral form			x	x
5	Hypothesize and stimulate creative thinking as well as thinking from different perspectives		x	x	x

A1: Attitude
Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability
Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments
Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Learning and Teaching Activities (LTAs)

	LTAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Literature study	Literature review involves critical reading and understanding on scientific articles.	2, 3, 5	
2	Seminars/ Sharing sessions	Practice and refine one's own skills in discussions and sharing of ideas with others with confidence	1, 3, 5	
3	Student and Supervisor discussion	Regular discussion between student and supervisor on reviewing the progress of the research project, and give feedbacks to the students	1, 2, 3, 4, 5	

4	Experimental/Bench work	Plan and perform experiments independently. Keep experimental record in a log book and submit to supervisor for assessment.	1, 3, 4, 5	

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks ("-" for nil entry)	Allow Use of GenAI?
1	Overall Bench performance	1, 3, 4, 5	20	-	No
2	Oral presentation	2, 4	30	allow to use GenAI tools to supplement content and critically analyse these AI-generated information	Yes
3	Dissertation	1, 2, 3, 4, 5	50	allow to use GenAI tools to supplement content and critically analyse these AI-generated information	Yes

Continuous Assessment (%)
100

Examination (%)
0

Minimum Continuous Assessment Passing Requirement (%)
40

Assessment Rubrics (AR)

Assessment Task
1. Overall Bench Performance

Criterion
Demonstrate the ability to apply what has been taught in lectures/tutorials into practice

Excellent (A+, A, A-)
High

Good (B+, B, B-)
Significant

Fair (C+, C, C-)
Moderate

Marginal (D)

Basic

Failure (F)
Not even reaching marginal levels

Assessment Task
2. Oral presentation and dissertation

Criterion
Ability to explain the report results in detail and the quality of your oral presentation and discussion

Excellent (A+, A, A-)
High

Good (B+, B, B-)
Significant

Fair (C+, C, C-)
Moderate

Marginal (D)
Basic

Failure (F)
Not even reaching marginal levels

Part III Other Information

Keyword Syllabus

- Research topic
- Table of Contents
- Cover page & Titles
- List of Figures
- Abbreviations
- Appendices
- References
- Work attachment

Reading List

Compulsory Readings

	Title
1	The CityU library has a research guide arranged by subject department: http://libguides.library.cityu.edu.hk/
2	Pubmed http://www.ncbi.nlm.nih.gov/pubmed
3	Google Scholar:http://scholar.google.com

Additional Readings

	Title
1	Nil