Course Syllabus

offered by Department of Biomedical Sciences
with effect from Semester A 2023/2024

Part I Course Overview

Course Title:	Research Project Study in Biomedical Sciences (Dissertation-type)
Course Code:	BMS5005
Course Duration:	Two Semesters/Term (Semester A & B **OR** Semester B & Summer Term)
Credit Units:	11
Level:	P5
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: *(Course Code and Title)*	
Precursors: *(Course Code and Title)*	NIL
Equivalent Courses: *(Course Code and Title)*	NIL
Exclusive Courses: *(Course Code and Title)*	BMS5003/BMS5003A/BMS5004/BMS5006

Part II Course Details

1. Abstract

The course is designed for the students to carry out an independent project based on their knowledge and research ability in the field of health science and management. The dissertation study under the supervision of a mentor will provide the students with the opportunity to apply the knowledge of theoretical subjects to build a practical project. Topic of projects includes conventional biomedical research or clinical sciences as well as regulatory, administrative, or educational research in the health science-related fields. Through conducting the project study, students are expected to develop critical thinking, analytical ability, and evaluative skills in a chosen area of specialization as well as they will learn how to write and defend their dissertation. Two options are provided to each student: individuals will do independent research project under PI's supervision in BMS. BMS5005 equips a hand-on study for those who are interested in biomedical research and pursue PhD study in future.

2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs[#]	Weighting (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	*A2*	*A3*
1.	Pursue an in-depth study of a professional issue associated with a chosen area of specialization.		✓	✓	✓
2.	Develop critical thinking, analytical ability, and evaluative skills through the conduct of the project.			✓	
3.	Develop the ability to write and present in a scientific context.			✓	✓
4.	Apply interdisciplinary knowledge to develop and enhance problem solving-skills in a chosen field of specialization.		✓	✓	
		100%			

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 self-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.

3. Teaching and Learning Activities (TLAs)

(TLAs designed to facilitate students' achievement of the CILOs.)

TLA	Brief Description	CILO No.				Hours/week (if applicable)
		1	2	3	4	
Learning Contract	A thesis will be planned in the beginning of the study under the guidance of a mentor.	✓				
Research Presentation	Regular presentation in the progress of the project.			✓	✓	
Meeting with a mentor	Regular supervisory meeting to discuss about the challenge of research project and dissertation writing.	✓	✓	✓	✓	

Note:

- BMS5003/BMS5003A/BMS5004/BMS5005/BMS5006 are exclusive courses. The courses are designated for students in different cohorts of study. These courses cannot be repeated.
- The normal duration of the course is 2 semesters/term (Semester A & B OR Semester B & Summer Term).
- Maximum duration of the course can normally be up to 3 semesters/terms upon approval from course leader/coordinator, in consultation with the supervisor. Further extension of semesters/terms shall need written endorsement from project supervisor, course leader and Programme Leader

4. Assessment Tasks/Activities (ATs)

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No.				Weighting	Remarks
	1	2	3	4		
Continuous Assessment: 100 %						
Assessment of individual contribution to the project	✓	✓	✓		10%	
Oral presentation			✓	✓	30%	
Final project report	✓	✓	✓	✓	60%	
Examination: Not Applicable						
					100%	

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Applicable to students admitted in Semester A 2022/23 and thereafter

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B)	Marginal (B-, C+, C)	Failure (F)
Assessment of individual contribution to the project	Design & planning of the project, Use of resources & information, Data collection & Record keeping, Active participation	High	Significant	Moderate	Not even reaching marginal levels
Oral presentation	Arrangement & delivery of presentation, and handling of questions.	High	Significant	Moderate	Not even reaching marginal levels
Final project report	Impact and significance Knowledge & Approach Content and Evidence Data Analysis & Results Interpretation Discussion & Conclusion	High	Significant	Moderate	Not even reaching marginal levels

Applicable to students admitted before Semester A 2022/23

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
Assessment of individual contribution to the project	Design & planning of the project, Use of resources & information, Data collection & Record keeping, Active participation	High	Significant	Moderate	Basic	Not even reaching marginal levels
Oral presentation	Arrangement & delivery of presentation, and handling of questions.	High	Significant	Moderate	Basic	Not even reaching marginal levels
Final project report	Impact and significance Knowledge & Approach Content and Evidence	High	Significant	Moderate	Basic	Not even reaching marginal levels

	Data Analysis & Results Interpretation Discussion & Conclusion					

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

Health
Project Study
Biomedical Science
Biotechnology- & Pharmaceutical- Industry
Healthcare Administration and Public Health

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

1.	Journal articles and books specific to a research topic, refer to PubMed, Scopus, and other research data base.
2.	CityU library facilities (online as well as manual)

2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

NIL