City University of Hong Kong
Course Syllabus

offered by School of Data Science
with effect from Semester A 2024/25

Part I   Course Overview

Course Title:	Dissertation
Course Code:	SDSC6006
Course Duration:	Two Consecutive Semesters
Credit Units:	6
Level:	P6
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: *(Course Code and Title)*	Nil
Precursors: *(Course Code and Title)*	Nil
Equivalent Courses: *(Course Code and Title)*	Nil
Exclusive Courses: *(Course Code and Title)*	Nil

Part II   Course Details

1.   **Abstract**

This course aims to develop a student's expertise in his/her chosen subject area through application of data science knowledge and techniques, and demonstrate a student's ability to present and organize subject knowledge scholarly in an independent research.

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.	Conduct independent study for problem solving and solution seeking.	20%	✓	✓	
2.	Apply data science knowledge and techniques of diverse subjects in formulating and analyzing practical problems.	20%	✓	✓	
3.	Assess critically appropriateness of research methodology and strategies in approaching problems.	20%	✓	✓	
4.	Discuss insights and novel findings in conducted data analytics studies.	20%	✓		✓
5.	Prepare a coherent dissertation with effective presentation of literature and analysis of results.	20%		✓	✓
		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. Learning and Teaching Activities (LTAs)

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

LTA	Brief Description	CILO No.					Hours/week (if applicable)
		1	2	3	4	5	
Consultation	Students will meet with their chosen supervisors to identify appropriate project topics and make research plans.	✓	✓	✓	✓		13 hours/sem
Individual works	Students will conduct the selected research project under the guidance of their supervisor.		✓	✓	✓	✓	26 hours/sem

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	5		
Continuous Assessment: __100__ %							
Project Proposal		✓	✓			20%	
Project Milestone Meetings	✓	✓	✓	✓		20%	
Dissertation	✓	✓	✓	✓	✓	40%	
Oral Presentation					✓	20%	
Examination: __0__ % (duration: , if 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 before Semester A 2022/23 and in Semester A 2024/25 & thereafter

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
1. Project Proposal	20%	High	Significant	Moderate	Basic	Not even reaching marginal levels
2. Project Milestone Meetings	20%	High	Significant	Moderate	Basic	Not even reaching marginal levels
3. Dissertation	40%	High	Significant	Moderate	Basic	Not even reaching marginal levels
4. Oral Presentation	20%	High	Significant	Moderate	Basic	Not even reaching marginal levels

Applicable to students admitted from Semester A 2022/23 to Summer Term 2024

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B)	Marginal (B-, C+, C)	Failure (F)
1. Project Proposal	20%	High	Moderate	Basic	Not even reaching marginal levels
2. Project Milestone Meetings	20%	High	Moderate	Basic	Not even reaching marginal levels
3. Dissertation	40%	High	Moderate	Basic	Not even reaching marginal levels
4. Oral Presentation	20%	High	Moderate	Basic	Not even reaching marginal levels

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.)

      No formal syllabus. Students will be required to undertake individually supervised research and

      dissertation preparation.

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.)

      NIL

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

      NIL