City University of Hong Kong
Course Syllabus

offered by School of Energy and Environment
with effect from Semester A 2018/19

Part I Course Overview

Course Title:	Final Year Project
Course Code:	SEE4996
Course Duration:	2 semesters
Credit Units:	6 credits
Level:	B4
Proposed Area: *(for GE courses only)*	☐ Arts and Humanities ☐ Study of Societies, Social and Business Organisations ☐ Science and Technology
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: *(Course Code and Title)*	SEE1002 Introduction to Computing for Energy and Environment; AND SEE2003 Introduction to Energy and Environmental Data Analysis
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

(A 150-word description about the course)

All students are required to complete an individual project under the supervision of academic staff in the School. The aims of the final year project are to give students the opportunity to develop and demonstrate their creativity and ability to carry out industrially-related or research-type project work, and in the process to allow them to illustrate their expertise in their chosen subject area related to environment. In undertaking the final year project, the student will be able to demonstrate the initiative and intellectual achievement, understanding of the chosen subject matter, and the application of mathematics, science, engineering, economics and policy knowledge in practical situations to arrive at innovative solution. The students will also develop problem-solving skills, demonstrate independence, build self-confidence and ability to make good oral presentations and report writing.

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.	Formulate a main theme of industrially-related or research-type project work upon a practical issue/problem related to environment.	10	√		
2.	Conduct literature survey and work independently with innovative idea.	20	√	√	
3.	Utilize appropriate theory, design and conduct experiments, apply numerical analysis tools, analyze and interpret data, etc. to create new knowledge through research, and solve problems related to the environment using scientific approach.	50	√	√	√
4.	Communicate effectively the project process, experience and results in a professional manner, using written, oral and visual media. Discover their strengths, weakness and areas for improvement.	20			
** If weighting is assigned to CILOs, they should add up to 100%.*		100%			

[#] Please specify the alignment of CILOs to the Gateway Education Programme Intended Learning outcomes (PILOs) in Section A of Annex.

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	
Supervision	Each individual final year project is supervised by an academic staff of the School	√	√	√	√	1
Project	Activities include literature review, project works, report writing and oral presentation.	√	√	√	√	9

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_%						
Scientific/Engineering Work	√	√	√		60%	
Reports				√	25%	
Oral Presentations				√	15%	
Examination: __0__% (duration: __N/A__ , if applicable)						
** The weightings should add up to 100%.*					100%	

Examination duration: N/A
Percentage of coursework, examination, etc.: 100% by coursework

To pass a course, a student must do ALL of the following:
1) obtain at least 30% of the total marks allocated towards coursework (combination of assignments, pop quizzes, term paper, lab reports and/ or quiz, if applicable);
2) obtain at least 30% of the total marks allocated towards final examination (if applicable); and
3) meet the criteria listed in the section on Assessment Rubrics.

5. Assessment Rubrics

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

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
1. Literature review	Ability to conduct thorough literature review	High	Significant	Moderate	Basic	Not even reaching marginal level
2. Project work	Ability to conduct scientific/engineering work and achieve tasks	High	Significant	Moderate	Basic	Not even reaching marginal level
3. Report writing	Ability to present the project well in report writing	High	Significant	Moderate	Basic	Not even reaching marginal level
4. Oral presentation	Ability to present the project well in oral presentation	High	Significant	Moderate	Basic	Not even reaching marginal level

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.)

Environment related issue/problem; analytical study; numerical simulation; experimental investigation; design; research; survey.

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.)

Readings recommended by supervisor.

2.2 Additional Readings

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

Nil