City University of Hong Kong
Course Syllabus

offered by Department of Electrical Engineering
with effect from Semester A in 2024/2025

Part I Course Overview

Course Title:	Dissertation
Course Code:	EE6680
Course Duration:	Part-time mode(EE6680): minimum 3 consecutive semesters/terms, maximum 5 consecutive semesters/terms Full-time mode(EE6680D): minimum 2 consecutive semesters/terms, maximum 4 consecutive semesters/terms This is a dissertation-type course as defined in City University's Academic Regulations (AR 12.6). The maximum duration of the course is 5 consecutive semesters/terms for Part-time mode and 4 consecutive semesters/terms for Full-time mode, after which no further extension can be permitted. As set out in City University's Academic Regulations, Dissertation-type courses are not allowed to repeat.
Credit Units:	9
Level:	P6
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: *(Course Code and Title)*	12 Credit Units of MSc elective courses and CGPA 2.5 or above; or equivalent
Precursors: *(Course Code and Title)*	Nil
Equivalent Courses: *(Course Code and Title)*	Nil
Exclusive Courses: *(Course Code and Title)*	EE6691 Applied Research Internship Scheme in Electronic Engineering, EE6611 Directed Studies for Taught Postgraduate Students

Part II Course Details

1. Abstract

The aim of the dissertation is to provide students with an opportunity to integrate and apply what has been learnt in the taught courses to complete a research project to develop their initiative, interests, and individual thinking via discovery learning. After the completion of the dissertation, the students should have a deeper understanding on the research area.

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.	Organize and manage a substantial individual research project.		✓	✓	
2.	Demonstrate the ability to work independently with professionalism in successfully completing project assignments.		✓	✓	
3.	Demonstrate initiative, innovative and intellectual abilities in handling a technically challenging research project.		✓	✓	✓
4.	Disseminate results of what they leant in the course both in a formal report and an oral presentation.		✓	✓	✓
		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 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.

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			
Research	Students will engage in research work	✓	✓	✓	✓			

Each student is assigned a Supervisor and also a Co-Supervisor in some projects. The supervisor(s) is/are responsible for guiding and overseeing the project work of the student on an individual basis. A student is expected to discuss with his/her supervisor at regular intervals. He/She will carry out a literature search and work on a research topic. The student may also be required to carry out software and/or hardware implementation according to the nature of the project.

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%								
Dissertation and oral examination and	✓	✓	✓	✓			100%	
Examination: 0% (duration: , if applicable)								
							100%	

Remark:

The assessment will be based on the oral examination and the dissertation. It will be conducted by the Supervisor and an Assessor (who may also be a Co-supervisor). The weighting is

Supervisor 70%
Assessor 30%

The assessment pattern for the course is 100% coursework. There are no formal lectures for this course. Students are required to undertake individually supervised research.

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. Coursework	Achievements in CILOs	High	Significant	Moderate	Basic	Not even reaching marginal level

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. Coursework	Achievements in CILOs	High	Medium	Low	Not even reaching marginal level

6. Constructive Alignment with Programme Outcomes

PILO	How the course contribute to the specific PILO(s)
1, 2, 3, 4, 5	The course provides students with amble opportunities in acquiring knowledge of and evaluation of new technologies in the chosen areas of project works, research on advancing the technologies and also the applications of mathematics and engineering problem solving skills.
6, 7	Students are required to complete a formal report, demonstrate and present their project works. Students will also acquire project management skills.

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

1. Keyword Syllabus

The projects will be drawn from available staff expertise.

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.	As designated by supervisor

2.2 Additional Readings

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

1.	The project supervisor shall recommend relevant books, publications and reference materials prior to the commencement of the project.