

Course Syllabus

offered by Department of **Electrical Engineering**
with effect from Semester A 2022/2023

This form is for the completion by the *Course Leader*. The information provided on this form is the official record of the course. It will be used for the City University's database, various City University publications (including websites) and documentation for students and others as required.

Please refer to the Explanatory Notes on the various items of information required.

Prepared / Last Updated by:

Name: Dr Steve Wong Academic Unit: EE

Phone/email: 5935/hang.wong@cityu.edu.hk Date: 17 May 2022

**City University of Hong Kong
Course Syllabus**

**offered by Department of Electrical Engineering
with effect from Semester A 2022/2023**

Part I Course Overview

Course Title:	Advanced Topics in Engineering I
Course Code:	EE6450
Course Duration:	One Semester (13 weeks)
Credit Units:	3
Level:	P6
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: <i>(Course Code and Title)</i>	To be prescribed by the visiting scholar or the course lecturer
Precursors: <i>(Course Code and Title)</i>	Nil
Equivalent Courses: <i>(Course Code and Title)</i>	Nil
Exclusive Courses: <i>(Course Code and Title)</i>	Nil

Part II Course Details

1. Abstract

This course aims to provide students with an opportunity to study advanced engineering subjects presented by visiting scholars with expertise in the area of Electronic Engineering and Information Technology.

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.	Understand the engineering problems in the selected areas.		✓		
2.	Describe the technology in the selected areas.		✓	✓	
3.	Apply the selected advanced Technology to solving problems.		✓	✓	✓
		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				
Lectures	Lectures on knowledge of advanced topics in engineering	✓	✓	✓				3 hrs/ wk (Some of the lectures will be conducted in the laboratory as case studies, demonstrations and experiments)
Laboratory experiments	Selected experience/case study in advanced engineering		✓	✓				

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					
Continuous Assessment: <u>50%</u>								
Tests and at least 3 assignments	✓	✓	✓				50%	
Examination: <u>50%</u> (duration: 2hrs , if applicable)								
							100%	

Remark:

To pass the course, students are required to achieve at least 30% in course work and 30% in the examination.

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)
1. Examination	Achievements in CILOs	High	Medium	Low	Not even reaching marginal level
2. Coursework	Achievements in CILOs	High	Medium	Low	Not even reaching marginal level

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)
1. Examination	Achievements in CILOs	High	Significant	Moderate	Basic	Not even reaching marginal level
2. Coursework	Achievements in CILOs	High	Significant	Moderate	Basic	Not even reaching marginal level

6. Constructive Alignment with Programme Outcomes

PILO	How the course contribute to the specific PILO(s)
1, 2, 3	The course provides students with opportunities to study advanced engineering subjects presented by visiting scholars with expertise in areas of selected topics.
4, 5	Students are required to complete assignments to gain experience in a design study, a programming exercise, a design simulation exercise, or an empirical studies in a commercial environment, in areas of selected topics.

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

1. Keyword Syllabus

The syllabus will depend on the topic offered for this course, but the following arrangements must be adhered to:

- 1.1 The intended syllabus shall be available by the last week of previous semester to allow students to be informed of the topic.

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.	Designated research papers in the field of the advanced topics in engineering for case study purpose.
----	---

2.2 Additional Readings

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

1.	Additional topical papers in the field of the advanced topics in engineering for case study purpose.
----	--