

# EE4086: INTERNSHIP: ADVANCED TOPICS IN ELECTRICAL ENGINEERING

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## Effective Term

Semester A 2025/26

## Part I Course Overview

### Course Title

Internship: Advanced Topics in Electrical Engineering

### Subject Code

EE - Electrical Engineering

### Course Number

4086

### Academic Unit

Electrical Engineering (EE)

### College/School

College of Engineering (EG)

### Course Duration

One Semester

### Credit Units

3

### Level

B1, B2, B3, B4 - Bachelor's Degree

### Medium of Instruction

Other Languages

### Other Languages for Medium of Instruction

English and other languages appropriate to the placement setting

### Medium of Assessment

English

### Prerequisites

EE4085

### Precursors

Nil

### Equivalent Courses

Nil

### Exclusive Courses

EE4081 or EE4082 or EE4083 or EE4084 or EE4087

### Additional Information

If student opts to take this course, it should be taken the semester right after EE4085 which is pre-requisite of this course (EE4086). Total duration for EE4085 and EE4086 should last for at least 8 months. Course registration for EE4086 can only be in Semester A or Semester B.

## Part II Course Details

### Abstract

The students will have opportunities to:

- appreciate a real working environment under the guidance of experts
- obtain technical knowledge of an area, including the relevant theories
- integrate the knowledge they acquired and apply it in a real work setting

The course is conducted at the host company, whereby students are jointly supervised by the host mentor and the EE supervisor. The students should select a technical topic related to the internship's work and report the technical content.

### Course Intended Learning Outcomes (CILOs)

CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Present the theoretical principles of the selected topics.	x	x	
2	Relate the principles learnt in the internship to knowledge needed to serve as engineers or software programmer of the selected topics.	x	x	
3	Realize or implement the engineering solutions for the selected topics.	x	x	
4	Perform assessment on the solutions.	x	x	

#### 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.

### Learning and Teaching Activities (LTAs)

LTAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Workshop training placement/ personal coaching/ other activities	Students will engage in pre/post-placement training seminars and reflection through writing interim and final reports	2, 4

2	Workshop training placement/ personal coaching/ other activities	Students will participate in the actual placement work, supervision and feedback from company supervisor	1, 2, 3, 4	
3	Workshop training placement/ personal coaching/ other activities	Students will receive supervision and feedback from academic supervisor	2, 4	
4	Workshop training placement/ personal coaching/ other activities	Student will keep logbook, conduct project presentation, company visits and interviews by CityU supervisors	2, 3, 4	

**Assessment Tasks / Activities (ATs)**

	ATs	CILO No.	Weighting (%)	Remarks ("- for nil entry)	Allow Use of GenAI?
1	Placement report for actual placement work in training company	1, 2, 3, 4	30	-	No
2	Feedback from academic supervisor based on company feedback, and visit & placement report	1, 2, 3, 4	35	-	Yes
3	Placement presentation	1, 2, 3, 4	35	-	Yes

**Continuous Assessment (%)**

100

**Examination (%)**

0

**Additional Information for ATs**

Template for Final Report and Final Presentation

## 1. Introduction

- a. Overview of the selected topics, including background and motivation of the works
- b. Overview of theories and principles of the selected topics
- c. Organization of the report

## 2. Background

- a. Detailed theories and principles of the selected topics
- b. Overview of student works.

## 3. Description of student works

- a. Ideas of student works and/or solutions, and alternative solutions
- b. Implementation of student works and/or solutions
- c. Properties of student works and/or solutions

## 4. Results of student works and discussions

- a. Settings of student works and/or solutions
  - b. Performance of student works and/or solutions
  - c. Findings of student works and/or solutions
  - d. Alternative solutions
5. Conclusion

Summary of student works and findings from the Internship

**Assessment Rubrics (AR)**

**Assessment Task**

Coursework

**Criterion**

Achievements in CILOs

**Excellent (A+, A, A-)**

High

**Good (B+, B, B-)**

Significant

**Fair (C+, C, C-)**

Moderate

**Marginal (D)**

Basic

**Failure (F)**

Not even reaching marginal levels

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## Part III Other Information

**Keyword Syllabus**

Nil

**Reading List**

**Compulsory Readings**

Title	
1	Nil

**Additional Readings**

Title	
1	Nil