

EE4085: INTERNSHIP: ENGINEERING PRACTICE

New Syllabus Proposal

Effective Term

Summer Term 2024

Part I Course Overview

Course Title

Internship: Engineering Practice

Subject Code

EE - Electrical Engineering

Course Number

4085

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

Nil

Precursors

Nil

Equivalent Courses

Nil

Exclusive Courses

EE4081 or EE4082 or EE4083 or EE4084

Additional Information

Course Fulfilment:

Students successfully completed the Internship Program will earn 3 Credit Units in their academic records at the University, which can be used to fulfill EE2066 or EE3012 Engineers in Society and EE4090 Engineering Training.

This course is pre-requisite of another two courses related to internship namely EE4086 and EE4087. Course registration is only allowed for Summer Term and Semester A, and should be taken the semester before EE4086 or EE4087 if applicable.

Part II Course Details

Abstract

This course aims to provide students with the opportunity to:

- appreciate a real working environment under the guidance of experts
- integrate the knowledge they acquired and apply it in a real work setting
- appreciate team work, group / organizational behaviour in a work environment
- gain real work experience, which will enhance their competitiveness in an increasingly challenging job market.

The program is conducted at the host company, whereby students are jointly supervised by the host mentor and the EE supervisor.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Aware of the role and functioning of engineering and technology in a company by observing its operations and discovering the practice and standards.		x	x	
2	Demonstrate an attitude to propose solution for problems through independent investigation and solve problems by applying proper engineering tools and analysis techniques		x	x	x
3	Demonstrate discipline and responsibility in a team			x	x
4	Aware of professional ethics in a real-life environment		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	Pre/post-placement training seminars and reflection through writing interim and final reports	2, 4	
2	Workshop training placement/ personal coaching/ other activities	The actual placement work, supervision and feedback from company supervisor	1, 2, 3, 4	
3	Workshop training placement/ personal coaching/ other activities	Supervision and feedback from academic supervisor	2, 4	
4	Workshop training placement/ personal coaching/ other activities	Logbook, project presentation, company visits and interviews by CityU supervisors	2, 3, 4	

Additional Information for LTAs

Template for Final Report and Final Presentation

1. Introduction

- Overview of the company's organizational framework
- Discussion on the key departments, roles, and responsibilities
- Analysis of the company's hierarchical structure and decision-making process

2. Business Overview

- Description of the company's core business activities
- Discussion on the company's products, services, and innovations
- Examination of the company's competitive advantages and market positioning

3. Relationship with Hong Kong and Greater China

- Overview of the company's presence and operations in HK and Greater China
- Discussion on strategic partnerships and collaborations with local entities
- Analysis of the company's contributions to the local and regional economy

4. Technical Side Content

- Examination of specific projects or initiatives undertaken by the company in HK and Greater China
- Analysis of the outcomes, successes, and challenges faced in these endeavors
- Technical activities in the internship period

5. Engineering Practice Content

- Based on the company's operations, discuss the obligations, roles and professional conduct of an engineer in a modern society. Concrete examples to be provided for illustration.
- Based on company's operations, discuss the legal, environmental and socio-economic factors (economic, ethics, etc.) that engineering practices should consider.

6. Conclusion

Summary of student works and findings from the Internship

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Logbook for actual placement work in training company	1, 2, 3, 4	30	
2	Written report on the role of engineer in professional society	1, 2, 3, 4	35	
3	Feedback from academic supervisor based on company feedback, and visit & logbook	1, 2, 3, 4	35	

Continuous Assessment (%)

100

Examination (%)

0

Assessment Rubrics (AR)**Assessment Task**

Coursework

Criterion

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

Part III Other Information**Keyword Syllabus**

Nil

Reading List**Compulsory Readings**

	Title
1	Nil

Additional Readings

	Title
1	Nil