SEE4998: SPECIAL PROJECT IN ENERGY AND ENVIRONMENT

Effective Term
Semester A 2025/26

Part I Course Overview

Course Title
Special Project in Energy and Environment

Subject Code
SEE - School of Energy and Environment
Course Number
4998

Academic Unit
School of Energy and Environment (E2)

College/School
School of Energy and Environment (E2)

Course Duration
One Semester

Credit Units
3

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

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
Nil

Precursors
To be specified by the supervisor of the project

Equivalent Courses
Nil

Exclusive Courses
Nil

Part II Course Details

Abstract

This course aims to provide an opportunity for students to carry out a one-semester study of an innovative topic that is related to energy and/or the environment. Through this course, students will learn to work independently (under the supervision of an SEE faculty member), apply and integrate knowledge acquired from other courses, think critically and creatively, and communicate their findings.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Define the scope of a study project	25		x	
2	Conduct independent research and discover new knowledge	25	x	x	
3	Critically analyze and integrate information and data	25	x	x	
4	Effectively communicate their findings	25		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		There will be no formal lecture. The students are required to meet regularly with their faculty supervisor and be self-motivated in carrying out their study.	1, 2, 3, 4	Variable

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks ("-" for nil entry)	Allow Use of GenAI?
1	Written proposal	1	10	-	Yes
2	Presentation	2, 3, 4	45	-	Yes
3	Written report	2, 3, 4	45	-	Yes

Continuous Assessment (%)

100

Examination (%)

0

Minimum Continuous Assessment Passing Requirement (%)

30

Additional Information for ATs

The written proposal will be assessed by the student's supervisor during the early part of the semester. The oral presentation and final written report will be assessed by the student's supervisor and another faculty member according to the comprehensiveness and competence of technical knowledge and understanding of the study topic.

Examination duration: N/A

Percentage of continuous assessment, examination, etc.: 100% by continuous assessment

To pass a course, a student must do ALL of the following:

1) obtain at least 30% of the total marks allocated towards continuous assessment (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.

Assessment Rubrics (AR)

Assessment Task

1. Written proposal

Criterion

Ability to formulate research questions and master the background of the project

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

Assessment Task

2. Presentation

Criterion

Communicate verbally the rationale to conduct the study, experimental setup, data analysis, major findings, and conclusions

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

Assessment Task
3. Written report

Criterion
Document the rationale to conduct the study, experimental setup, data analysis, major findings, and conclusions

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
Current topics in energy and/or environment; independent research

Reading List

Compulsory Readings

	Title
1	Nil

Additional Readings

	Title
1	Nil