SEE4994: GUIDED STUDY IN ENERGY AND ENVIRONMENT

Effective Term
Semester A 2024/25

Part I Course Overview

Course Title
Guided Study in Energy and Environment

Subject Code
SEE - School of Energy and Environment
Course Number
4994

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 course leader

Equivalent Courses
Nil

Exclusive Courses
Nil

Part II Course Details

Abstract

This course provides an opportunity for students to either specialize in a field of interest or to explore interdisciplinary fields not available in the regular syllabus. Students will carry out an in-depth study of topics that are related to energy and/or the environment under the supervision and guidance of an SEE academic member. Through this course, students will learn to learn and work independently, 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 detailed study plan	25		x	
2	Conduct independent study	25	x	x	
3	Critically analyze and integrate information and data	25	x	x	
4	Effectively communicate 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 supervisors and be self-motivated in carrying out their independent study.	1, 2, 3, 4	Variable

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Presentation	1, 2, 3, 4	50	
2	Written report(s)	1, 2, 3, 4	50	

Continuous Assessment (%)

100

Examination (%)

0

Examination Duration (Hours)

N/A

Additional Information for ATs

The oral presentation and written report(s) will be assessed by the student' s supervisor at the end of the semester 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:

a. 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);
b. obtain at least 30% of the total marks allocated towards final examination (if applicable); and
c. meet the criteria listed in the section on Assessment Rubrics.

Assessment Rubrics (AR)

Assessment Task

1. Presentation

Criterion

Able to give an independent and detailed account of their field of study in the form of verbal presentation(s)

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. Written report

Criterion

Able to give an independent and detailed account of their field of study in the form of detailed written report(s)

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 study

Reading List

Compulsory Readings

	Title
1	Nil

Additional Readings

	Title
1	Nil