SEE4992: FINAL YEAR PROJECT ON SUSTAINABILITY

Effective Term
Semester A 2026/27

Part I Course Overview

Course Title
Final Year Project on Sustainability

Subject Code
SEE - School of Energy and Environment
Course Number
4992

Academic Unit
School of Energy and Environment (E2)

College/School
School of Energy and Environment (E2)

Course Duration
Two Semesters

Credit Units
0-6

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

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
SEE1005 Global Sustainable Technologies and Finance and SEE2003 Introduction to Energy and Environmental Data Analysis

Precursors
Nil

Equivalent Courses
Nil

Exclusive Courses
Nil

Additional Information
Nil

Part II Course Details

Abstract

All students are required to complete an individual project under the supervision of academic staff in the School. The aims of the final year project are to provide students with the opportunity to collaborate with sustainability teams in the private and public sectors, or to develop entrepreneurial projects. This experience will allow students to demonstrate their creativity and ability to undertake industrially-related or research-type project work across various sectors, illustrating their expertise in sustainability, specifically in areas related to environmental, economic, and social dimensions. Through the final year project, students will showcase their initiative and intellectual achievement, a deep understanding of the chosen subject matter, and the practical application of knowledge in mathematics, science, engineering, economics, and policy to arrive at innovative solutions. The students will also enhance their problem-solving skills, demonstrate independence, build self-confidence, and develop their ability to make effective oral presentations and produce comprehensive written reports.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Formulate a main theme of industrially-related or research-type project work upon a practical issue/problem related to sustainability.	10	x		
2	Conduct literature survey and work independently with innovative idea.	20	x	x	
3	Discuss appropriate theory, design and conduct experiments, apply numerical analysis tools, analyze and interpret data, etc. to create new knowledge through research, and solve problems related to the environment using scientific approach.	50	x	x	x
4	Communicate effectively the project process, experience and results in a professional manner, using written, oral and visual media. Discover their strengths, weakness and areas for improvement.	20			

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	Supervision	Each individual final year project is supervised by an academic staff of the School	1, 2, 3, 4	1

2	Project	Students will engage in research and project management activities such as literature review, project works, report writing and oral presentation.	1, 2, 3, 4	9

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks ("-" for nil entry)	Allow Use of GenAI?
1	Scientific/ Engineering Work	1, 2, 3	60	-	Yes
2	Reports	4	25	-	Yes
3	Oral Presentation	4	15	-	Yes

Continuous Assessment (%)

100

Examination (%)

0

Minimum Continuous Assessment Passing Requirement (%)

30

Assessment Rubrics (AR)

Assessment Task

Literature review

Criterion

Ability to conduct thorough literature review

Excellent (A+, A, A-)

High

Good (B+, B, B-)

Significant

Fair (C+, C, C-)

Moderate

Marginal (D)

Basic

Failure (F)

Not even reaching marginal level

Assessment Task

Project work

Criterion

Ability to conduct scientific/engineering work and achieve tasks

Excellent (A+, A, A-)
High

Good (B+, B, B-)
Significant

Fair (C+, C, C-)
Moderate

Marginal (D)
Basic

Failure (F)
Not even reaching marginal level

Assessment Task
Report writing

Criterion
Ability to present the project well in report writing

Excellent (A+, A, A-)
High

Good (B+, B, B-)
Significant

Fair (C+, C, C-)
Moderate

Marginal (D)
Basic

Failure (F)
Not even reaching marginal level

Assessment Task
Oral presentation

Criterion
Ability to present the project well in oral presentation

Excellent (A+, A, A-)
High

Good (B+, B, B-)
Significant

Fair (C+, C, C-)
Moderate

Marginal (D)
Basic

Failure (F)
Not even reaching marginal level

Part III Other Information

Keyword Syllabus
Environment related issue/problem; green technology implementation; resource efficiency strategies; sustainable design; numerical simulation; data analysis; experimental investigation; research; survey.

Reading List

Compulsory Readings

	Title
1	Readings recommended by supervisor.

Additional Readings

	Title
1	Nil