

# SEE6999: DISSERTATION

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## Effective Term

Semester A 2025/26

## Part I Course Overview

### Course Title

Dissertation

### Subject Code

SEE - School of Energy and Environment

### Course Number

6999

### 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

P5, P6 - Postgraduate Degree

### Medium of Instruction

English

### Medium of Assessment

English

### Prerequisites

Nil

### Precursors

Nil

### Equivalent Courses

Nil

### Exclusive Courses

Nil

## Part II Course Details

### Abstract

The aim of the dissertation is to give the opportunity to students to demonstrate their ability to carry out an independent piece of research and development work, and to develop expertise in a chosen subject area related to the program through

the application of theory and techniques provided by the program. This will take the form of a substantial study in a subject area related to energy and environment, largely through the exercise of independent inquiry. In undertaking the dissertation, the student should be able to demonstrate ability to exercise judgment, independent thought, initiative, intellectual achievement, understanding of the chosen subject matter, and the principles being applied. The student will also develop and demonstrate the ability to manage and present the dissertation in a precise and coherent manner.

### Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Carry out a literature survey or search of a selected subject, plan the entire project and integrate the materials principles into the project selected.	20	x	x	
2	Carry out independent research and development work, analyze and interpret data professionally.	40	x	x	x
3	Demonstrate initiative, innovative abilities, and critical thinking. Be able to write a good dissertation and present scientific findings orally.	40	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	Meeting with Primary Supervisor	Regular scheduled meeting with Primary Supervisor to guide student with the learning of fundamentals in the research topic and develop hypotheses	1, 2, 3
2	Survey and analytical work	Hands-on work by the student to put the fundamental knowledge into experimental practice and to verify hypotheses	1, 2
3	Report writing	Scientific writing and professional presentation of written document	3

4	Presentation	Oral presentation to disseminate research findings	3	
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**Assessment Tasks / Activities (ATs)**

	ATs	CILO No.	Weighting (%)	Remarks ("- " for nil entry)	Allow Use of GenAI?
1	Interim report	1	10	-	Yes
2	Written dissertation	1, 2, 3	75	-	Yes
3	Oral presentation	3	15	-	Yes

**Continuous Assessment (%)**

100

**Examination (%)**

0

**Minimum Continuous Assessment Passing Requirement (%)**

30

**Additional Information for ATs**

The progress of the dissertation will be closely monitored through regular meetings between the dissertation supervisor and the student.

The oral presentation is assessed by a team of assessors, appointed by the dissertation committee, according to style, structure and clarity, and response to questions. The assessment procedures are arranged to incorporate a uniformity of treatment across the student cohort.

Each dissertation report is assessed by the assessor appointed by the project committee to each particular dissertation. The report is assessed as to presentation (clarity, conciseness), technical knowledge and understanding, and accomplishment (technical competence, initiative creativity, effort).

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

- 1) obtain at least 30% of the total marks allocated towards coursework (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**

Interim report (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to perform initial survey of theoretical background in relevant research topic and building hypothesis around the topic

**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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**Assessment Task**

Dissertation (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to describe relevant theoretical background and how the principles are applied to technology and management for solving energy and environment issues.

Ability to demonstrate original intellectual thinking.

**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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**Assessment Task**

Oral presentation (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

**Criterion**

Ability to convey research findings orally in a convincing and systematic manner

**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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### **Assessment Task**

Interim report (for students admitted from Semester A 2022/23 to Summer Term 2024)

#### **Criterion**

Ability to perform initial survey of theoretical background in relevant research topic and building hypothesis around the topic

#### **Excellent**

(A+, A, A-) High

#### **Good**

(B+, B) Significant

#### **Marginal**

(B-, C+, C) Basic

#### **Failure**

(F) Not even reaching marginal levels

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### **Assessment Task**

Dissertation (for students admitted from Semester A 2022/23 to Summer Term 2024)

#### **Criterion**

Ability to describe relevant theoretical background and how the principles are applied to technology and management for solving energy and environment issues.

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## Part III Other Information

**Keyword Syllabus**

There is no fixed formal syllabus. Students will be required to undertake individually supervised research and a dissertation. A departmental publication is provided giving details of requirements, timing, and considerations necessary for the successful completion, on time, of the course.

**Reading List****Compulsory Readings**

Title	
1	To be advised by individual supervisor based on the topics of research.

**Additional Readings**

Title	
1	Refer to attached Guidelines to SEE 6999 Dissertation.