

MNE6008: DISSERTATION

Effective Term

Semester A 2026/27

Part I Course Overview

Course Title

Dissertation

Subject Code

MNE - Mechanical Engineering

Course Number

6008

Academic Unit

Mechanical Engineering (MNE)

College/School

College of Engineering (EG)

Course Duration

Non-standard Duration

Other Course Duration

Normal duration: 1 Semester + Summer Term

Credit Units

0-9

Level

P5, P6 - Postgraduate Degree

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

Nil

Exclusive Courses

Nil

Additional Information

As set out in the Academic Regulations for Master's Degrees, students are not permitted to repeat a dissertation-type course.

Part II Course Details

Abstract

The aim of the dissertation is to demonstrate the student's ability to carry out independent research and development work and to develop expertise in a focused area of the programme. In undertaking the dissertation, the student should demonstrate initiative and intellectual achievement, understanding of the chosen subject matter, and the principles being applied. He/She will also develop and demonstrate the ability to pursue a subject area of the course to substantial depth 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	Define the nature, aim, scope and importance of a selected topic clearly in the major area of the programme.		x	x	
2	Review the body of knowledge from selected literature to deepen the understanding of the theory or practice relevant to the chosen dissertation.		x	x	
3	Apply such theory or knowledge to formulate and implement the methodology for the chosen dissertation.			x	x
4	Communicate effectively the dissertation process, results, experience and reflection coherently, logically and precisely, using written, oral and visual media.			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	1	Each student shall define, under the supervision of a dissertation supervisor, the nature, aim, scope and importance of a project relevant to the major area of the programme.	1	

2	2	Each student shall research and review the appropriate body of knowledge and background information needed to achieve the defined dissertation objective(s).	2	
3	3.1	Each student shall appraise and select the knowledge, theory or practice from literature and develop the appropriate dissertation methodology.	3	
4	3.2	Implement the methodology to the chosen problem or project.	3	
5	3.3	Analyze the results obtained, draw conclusion and critically appraise the work done.	3	
6	4.1	Document the dissertation process, results, experience and reflection in the form of dissertation according to the given format.	4	
7	4.2	Give presentation and defend dissertation endeavour and outcome when required.	4	

Assessment Tasks / Activities (ATs)

ATs		CILO No.	Weighting (%)	Remarks ("- for nil entry)	Allow Use of GenAI?
1	Coursework	1, 2, 3, 4	100	-	Yes

Continuous Assessment (%)

100

Additional Information for ATs**Assessment Process:**

The submitted written Dissertation is assessed by the Supervisor (and any Co-Supervisor) and another independent Assessor. A student may be asked to make an Oral Defence of the Dissertation work in the presence of a Dissertation Committee nominee, the Supervisor, the Assessor and any Co-Supervisor.

After the written Dissertation has been assessed as satisfactory, a student must submit one soft copy of his/her final Dissertation to the host department office. The dissertation should follow the format set by the department. In general, equal weighting would be given to the Supervisor' s and the independent Assessor' s assessments. The Dissertation Committee shall resolve any major discrepancies between the assessments made by Supervisors and Assessors.

Assessment Rubrics (AR)

Assessment Task

Coursework

Criterion

Aim, objectives and scope of the project. Literature review. Application of knowledge. Project implementation. Communication of work.

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

Independent research. Individually chosen dissertation topic. Application and integration of theories, techniques and practices of a selected area of focus.

Reading List**Compulsory Readings**

Title	
1	Nil

Additional Readings

Title	
1	Nil