SYE6018: DISSERTATION

Effective Term
Semester A 2025/26

Part I Course Overview

Course Title
Dissertation

Subject Code
SYE - Systems Engineering
Course Number
6018

Academic Unit
Systems Engineering (SYE)

College/School
College of Engineering (EG)

Course Duration
Non-standard Duration

Other Course Duration
Normal duration:
2 Semesters (Part-time student)
1 Semester + Summer Term (Full-time student)
This is a dissertation-type course as defined in City University's Academic Regulations for Taught Postgraduate Degrees (AR12.6). The maximum duration of the course is 5 semesters, after which no further extension can be permitted. As set out in City University's Academic Regulations, dissertation-type courses cannot be repeated.

Credit Units
0-9

Level
P5, P6 - Postgraduate Degree

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
Students must complete a total of not less than 12 CU before getting enrolled in SYE6018. The student's Dissertation Proposal needs to be recommended by the proposed Dissertation Supervisor and approved by the Dissertation Committee.

Precursors
Nil

Equivalent Courses
SEEM6018 Dissertation (offered until 2021/22) / ADSE6018 Dissertation (offered until 2023/24)

Exclusive Courses

Nil

Part II Course Details

Abstract

The MSEM/MSSM Dissertation offers a student a rewarding and enriching opportunity to propose, formulate, and carry out an independent research topic or project of his/her choice. The MSEM/MSSM Dissertation is an integrative course that allows a student to explore, evaluate, and apply the theories and techniques learned from the various taught courses of the master programme to a real-life project or industrial setting.

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 engineering management dissertation topic clearly in explicit terms.	20	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.	30		x	
3	Apply such theory or knowledge to formulate and implement the methodology for the chosen dissertation.	40		x	x
4	Communicate effectively the dissertation process, results, experience and reflection coherently and logically, using written, oral and visual media.	10	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	T1	Each student shall define, under the supervision of a Dissertation supervisor, the nature, aim, scope and importance of a project relevant to engineering management.	1	

2	T2	Each student shall research and review the appropriate body of knowledge and background information needed to achieve the defined Dissertation objective(s).	1, 2	
3	T3.1	Each student shall appraise and select the knowledge, theory or practice learned from literature and develop the appropriate Dissertation methodology.	2	
4	T3.2	Implement the methodology to the chosen engineering management problem or project.	2, 3	
5	T3.3	Analyse the results obtained, draw conclusion and critically appraise the work done.	2, 3, 4	
6	T4.1	Document the Dissertation process, results, experience and reflection in the form of MSEM Dissertation according to the given format	4	
7	T4.2	Make oral presentation and defence of the Dissertation endeavour and outcome when required.	4	

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks ("-" for nil entry)	Allow Use of GenAI?
1	Written dissertation	1, 2, 3, 4	100	Attached below-Assignment Pattern	No

Continuous Assessment (%)

100

Minimum Continuous Assessment Passing Requirement (%)

30

Assessment Rubrics (AR)

Assessment Task

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

Criterion
See Assessment Outcome Template

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

Criterion
See Assessment Outcome Template

Excellent
(A+, A, A-) Excellent

Good
(B+, B) Good

Marginal
(B-, C+, C) Marginal

Failure
(F) Failure

Part III Other Information

Keyword Syllabus
Independent research. Individually chosen dissertation topic. Application and integration of theories, techniques and practices of selected topic in engineering management.

Reading List

Compulsory Readings

	Title
1	NIL

Additional Readings

	Title
1	NIL