

SYE8008D: ENGD SEMINAR

Effective Term

Semester B 2024/25

Part I Course Overview

Course Title

EngD Seminar

Subject Code

SYE - Systems Engineering

Course Number

8008D

Academic Unit

Systems Engineering (SYE)

College/School

College of Engineering (EG)

Course Duration

Non-standard Duration

Other Course Duration

Year 1-4 of EngD candidature

Credit Units

0-3

Level

D8 - Professional Doctorate

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

SEEM8008D EngD Seminar (offered until 2021/22); ADSE8008D EngD Seminar (offered until 2023/24)

Exclusive Courses

Nil

Part II Course Details

Abstract

The EngD Seminar provides:

- i. a cooperative learning environment in which students from different cohorts of the programme can mix, interact, challenge and support each other throughout their EngD candidature;
- ii. formal periodic forums for the EngD students to:
 - broaden their knowledge and expertise;
 - present their research findings and share their learning experiences with their peers and academic staff;
 - cultivate critical thinking and stimulate generation of new ideas;
 - help promote research culture among the EngD students; provide first-hand interaction with experienced engineering management professionals on contemporary issues.

Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Define the nature, aim, scope and significance of a selected engineering management topic clearly in explicit terms and develop it into an EngD thesis of adequate academic depth and vigour.		x	x	
2	Review the body of knowledge from literature to lay the necessary theoretical foundation relevant to the topic or theme of the EngD thesis.		x	x	
3	Apply such theory or knowledge to formulate and implement the research methodology for the EngD thesis.		x	x	x
4	Participate in the periodic EngD Seminars in the course of their EngD candidature. Communicate the EngD thesis research process, interim results and experience scholarly and logically, 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		Each student shall define, under the supervision of a EngD thesis supervisor, the nature, aim, scope and importance of a project relevant to engineering management.	1
2		Each student shall research and review the appropriate body of knowledge and background information needed to achieve the defined EngD thesis objective(s).	2
3		Each student shall appraise and select the knowledge, theory or practice learned from literature and develop the appropriate EngD thesis research methodology. Implement the research methodology to the chosen engineering management problem or project. Analyse the results obtained, draw conclusion and critically appraise the work done.	3
4		Attend and participate in the periodic EngD Seminars. Document the research process, interim results and experience scholarly and logically in the form of EngD thesis annual report according to the given format. Present the EngD thesis research progress during the EngD Seminars in Year 3 & 4 of the EngD candidature.	4

Additional Information for LTAs

Students are required to attend periodic EngD Seminars in the course of their EngD candidature. EngD candidates are expected to learn and gain from these seminars during which they are encouraged to have scholarly discourse about methodology design, research technique and instrument, analysis strategies, and research progress or findings with their peers. These seminars are progress checkpoints as well as forums for sharing of research experience among EngD

candidates. An important benefit of this 4-year long course is that it will help to reduce the feeling of isolation and loneliness that some students may have during their EngD research and thesis development.

Formal EngD Seminar will be organised annually. Normally, the annual EngD students of Year 1 and 2 will attend the EngD Seminars scheduled at the end of Semester A of each year and all the Year 3 and 4 EngD candidates in their thesis phase are expected to present their progress and findings.

Other research seminars and talks by guest speakers, will also be arranged throughout the programme. In addition, EngD students are encouraged to attend as many as they can other seminars organized on a regular basis by different academic units of CityU. This will provide students with opportunities for first-hand discussions and interaction with experienced professionals and academics on wide ranging contemporary issues and topics.

Assessment Tasks / Activities (ATs)

ATs		CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Coursework	1, 2, 3, 4	100	

Continuous Assessment (%)

100

Examination (%)

0

Minimum Continuous Assessment Passing Requirement (%)

0

Minimum Examination Passing Requirement (%)

0

Assessment Rubrics (AR)

Assessment Task

Coursework

Pass (P)

(P) Pass

Failure (F)

(F) Fail

Part III Other Information

Keyword Syllabus

Doctoral thesis, research methodology, research progress, workshop and seminar attendance and presentation

Reading List

Compulsory Readings

Title	
1	Rowena Murray, How to Write a Thesis, Open U Press, 2002
2	David Madsen, Successful Dissertations and Thesis, Jossey-Bass, 1992
3	Wayne C Booth et al, The Craft of Research, Publ. Chicago U Press, 1995

Additional Readings

Title	
1	NIL