

SYE6009: PROJECT MANAGEMENT

Effective Term

Semester B 2024/25

Part I Course Overview

Course Title

Project Management

Subject Code

SYE - Systems Engineering

Course Number

6009

Academic Unit

Systems Engineering (SYE)

College/School

College of Engineering (EG)

Course Duration

One Semester

Credit Units

3

Level

P5, P6 - Postgraduate Degree

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

SEEM6009 Project Management (offered until 2021/22) / ADSE6009 Project Management (offered until 2023/24)

Exclusive Courses

Nil

Part II Course Details

Abstract

This course aims to develop the students' ability to integrate and apply their knowledge acquired from this and other courses in the formulation and implementation of projects and evaluate, plan and manage engineering and industrial projects.

Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	explain the role of project management within the overall organizational and strategic framework of the company;	20			
2	identify project opportunities, evaluate project feasibility and develop projects proposals;	20			
3	undertake a leading role in project implementation and management;	20		x	
4	plan, schedule, monitor and control project activities using Gantt Charts, WBS, Responsibility Matrix, PERT/CPM etc; and	30		x	
5	implement organizational and process change that will help to improve project management effectiveness.	10	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	Lecture	Lecture topics as listed in keyword syllabus	1, 2, 3, 4, 5	26 hrs/ sem
2	Group Work	Case studies and assigned project management review questions	1, 2, 3, 4, 5	13 hrs/ sem
3	Self Work, including case preparation, PM learning logbook	Students document their pre-class preparation and post-class reflection in their learning logbooks.	1, 2, 3, 4, 5	60 hrs/ sem
4	Term Paper or group project	Students can opt for individual term paper or group project on topics related to project management.	1, 2, 3, 4, 5	

Assessment Tasks / Activities (ATs)

ATs		CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Group Work - Case presentation and review assignments	1, 2, 3, 4, 5	20	
2	Term Paper or group project	1, 2, 3, 4, 5	30	

Continuous Assessment (%)

50

Examination (%)

50

Examination Duration (Hours)

3

Additional Information for ATs

To reflect the CILO's listed above, different individual and group based coursework that requires the students to understand and apply the project management concepts and techniques learned in class will be assigned. In particular, the major assignment or Term Paper prescribed will seek to assess students' CILO no. C1, C3 and C4. The assessment will have equal weighting for coursework and examination to emphasize the importance of continuous learning.

For a student to pass the course, at least 30% of the maximum mark for the examination should be obtained.

Assessment Rubrics (AR)**Assessment Task**

Group Work - Case presentation and review assignments (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion

Continuous efforts; clear documentation of preparatory work and post lesson learning.

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

Term Paper or group project (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion

Term paper- Relevance, in depth analysis and discussion; evidence of literature support. Group project- clear project definition, methodology and implementation; well documented and presented.

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

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

Criterion

Closed book; testing students' understanding and application of project management theories and techniques.

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

Group Work - Case presentation and review assignments (for students admitted from Semester A 2022/23 to Summer Term 2024)

Criterion

Continuous efforts; clear documentation of preparatory work and post lesson learning.

Excellent

(A+, A, A-) High

Good

(B+, B) Significant

Marginal

(B-, C+, C) Moderate/Basic

Failure

(F) Not even reaching marginal levels

Assessment Task

Term Paper or group project (for students admitted from Semester A 2022/23 to Summer Term 2024)

Criterion

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Part III Other Information

Keyword Syllabus

- Project environment and project organizational structures.
- Project evaluation, selection and initiation.
- Management of R&D and high tech projects.

- Project team and project manager.
- Project planning and scheduling.
- Project monitor and control.
- Project costing and budgeting.
- Negotiation and management of conflicts in project environment.
- Project Management System.

Reading List

Compulsory Readings

Title	
1	Complete set of course notes and assignment handouts
2	Meredith J.R., Mantel S.J. Jr., Project Management:- A Managerial Approach, John Wiley & Sons, 7th Ed., 2010.

Additional Readings

Title	
1	Selected Case Studies from Chuah K.B.' s Casebook of Contemporary Project Management Practices in Hong Kong Industries - Draft
2	Kerzner H., Project Management:- A Systems Approach to Planning, Scheduling, and Controlling, 8th Edition, John Wiley, 2003.
3	IEEE Trans Engineering Management
4	International Journal of Project Management
5	Project Management Journal
6	Project Management Quarterly