

# ADSE4024: PROJECT MANAGEMENT

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## Effective Term

Semester A 2023/24

## Part I Course Overview

### Course Title

Project Management

### Subject Code

ADSE - Advanced Design and System Engineering

### Course Number

4024

### Academic Unit

Systems Engineering (SYE)

### College/School

College of Engineering (EG)

### Course Duration

One Semester

### Credit Units

3

### Level

B1, B2, B3, B4 - Bachelor's Degree

### Medium of Instruction

English

### Medium of Assessment

English

### Prerequisites

Students must complete a minimum of 45 credits to be eligible

### Precursors

Nil

### Equivalent Courses

SEEM4024 Project Management

### Exclusive Courses

Nil

## Part II Course Details

### Abstract

This course aims to develop the students' understanding and ability to evaluate, plan and manage engineering and manufacturing projects.

### Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Explain the requirements and the importance of project management in an industrial organization.	30	x	x	
2	Describe the difficulties and problems faced in contemporary project environment.	25	x	x	
3	Analyze and explain the common causes and modes of handling conflicts in project management.	10	x	x	
4	Identify project opportunities, evaluate project feasibility and initiate and terminate projects.	10	x	x	
5	Use project management techniques such as Gantt Charts, WBS, CPM/PERT network planning, resource levelling and software tools to plan, schedule, monitor and control project activities.	25	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.

### Teaching and Learning Activities (TLAs)

TLAs	Brief Description	CILO No.	Hours/week (if applicable)	
1	Lecture	Large class activity.	1, 2, 3, 4, 5	39 hours/semester
2	Self and Group Work	(i) Case Study and (ii) Review Questions and (iii) group work	1, 2, 3, 4, 5	63 hours/semester
3	Term Paper	Term paper/mini project.	1, 2, 3, 4, 5	13 hours/semester

**Assessment Tasks / Activities (ATs)**

ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1 Case Study The case studies require the students to practise and review what is learned in the subject in a more integrative manner.	1, 2, 3, 4, 5	10	
2 Review Questions The review questions allow the students to practise what is learned from the lectures and assess the degree of their understanding of the subject in the form of short exercises.	1, 2, 3, 4, 5	10	
3 Term Paper The term paper provides the students with hand-on practice of the subject and the experience of a real and messy project management making environment. Students will work in groups, prepare and deliver presentations on selected topics	1, 2, 3, 4, 5	30	

**Continuous Assessment (%)**

50

**Examination (%)**

50

**Examination Duration (Hours)**

2

**Additional Information for ATs**

Examination: Students will be assessed via the examination their understanding of concepts learned in class, textbook and their ability to apply subject-related knowledge.

To reflect the CILO's listed above, individual coursework and group work during lectures that requires the students to understand and apply the project management concepts and techniques learned in lectures will be assigned and continuously evaluated. The overall assessment gives equal weighting to coursework and examination to emphasize the equal importance of continuous learning and final examination.

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**

Course work

**Criterion**

Case Study  
Review Questions  
Term Paper.

**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**

Examination

**Criterion**

Closed-book examination.

**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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## Part III Other Information

**Keyword Syllabus**

- Project Environment and the World of Project Management
- Project Organization, Team and Manager
- PERT/CPM Project Planning and Scheduling
- Project Monitoring and Controlling
- Project Resources and Budgeting

- Evaluating and Terminating Project
- Handling Conflicts in Project Management

### Reading List

#### Compulsory Readings

Title	
1	Course notes and assignment handouts
2	Mantel S.J. Jr. et al, Project Management in Practice, John Wiley, Second Ed., 2005

#### Additional Readings

Title	
1	Meredith J.R. & Mantel S.J. Jr., Project Management:- A Managerial Approach, John Wiley, 5th Ed., 2003
2	Kerzner H., Project Management:- A Systems Approach to Planning, Scheduling, and Controlling, 6th Edition, Van Nostrand Reinhold, 1997
3	International Journal of Project Management and other online learning materials are available from CityU Library