

SDSC4024: PROJECT MANAGEMENT AND ANALYSIS

Effective Term

Semester A 2022/23

Part I Course Overview

Course Title

Project Management and Analysis

Subject Code

SDSC - School of Data Science

Course Number

4024

Academic Unit

School of Data Science (DS)

College/School

School of Data Science (DS)

Course Duration

One Semester

Credit Units

3

Level

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

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

Nil

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		
2	Describe the difficulties and problems faced in contemporary project environment.	25	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	26 hrs/semester
2	Tutorial	Case study, group work.	3, 4, 5	13 hrs/semester

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Case Study	3, 4, 5	10	
2	Assignments	1, 2, 3, 4	10	
3	Project	3, 4, 5	30	

Continuous Assessment (%)

50

Examination (%)

50

Examination Duration (Hours)

2

Assessment Rubrics (AR)

Assessment Task

Course work

Criterion

Case Study

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

Course work

Criterion

Assignments

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

Course work

Criterion

Project

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

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

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