

CA4413: CONSTRUCTION PROJECT MANAGEMENT

Effective Term

Semester A 2025/26

Part I Course Overview

Course Title

Construction Project Management

Subject Code

CA - Civil and Architectural Engineering

Course Number

4413

Academic Unit

Architecture and Civil Engineering (CA)

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

Nil

Precursors

CA3411 Construction Management I; or CA3747 Building Management; or CA3417 Management for Construction

Students must have attempted (including class attendance, coursework submission, and examination) the precursor course(s) so identified.

Equivalent Courses

BC4413/BC4413F/BC4413P Construction Project Management

Exclusive Courses

Nil

Part II Course Details

Abstract

The aim of this course is to provide the student with an understanding of those factors affecting management of large and/or complex projects.

Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Describe the managerial, financial and technical decision making processes involved in the management of large and/or complex projects;		x		
2	Explain the management techniques in the construction project;			x	
3	Describe the principles and operations of construction projects of different countries, especially the one with PRC;		x		
4	Compare the essential elements of project management.			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	Lectures	Students will engage in discussing and delivering the managerial, financial and technical decision making processes involved in the management of large and/or complex projects; and the principles and operations of construction projects of different countries, especially the one with PRC. Apply and compare the management techniques in the construction project; and the essential elements of project management.	1, 2, 3, 4	
2	Tutorials	Students will engage in specific tasks, such as real construction management problems in construction industry, student may submit a report with presentation of their task	1, 4	

Assessment Tasks / Activities (ATs)

ATs		CILO No.	Weighting (%)	Remarks ("- " for nil entry)	Allow Use of GenAI?
1	Assignments	1, 2, 3, 4	45		No
2	Mid-term examination	1, 2, 3, 4	25		No

Continuous Assessment (%)

70

Examination (%)

30

Examination Duration (Hours)

2

Minimum Continuous Assessment Passing Requirement (%)

30

Minimum Examination Passing Requirement (%)

30

Additional Information for ATs

To pass a course, a student must obtain minimum marks of 30% in both coursework and examination components, and an overall mark of at least 40%.

Assessment Rubrics (AR)

Assessment Task

Assignments

Criterion

ABILITY to APPLY the management techniques in the construction project; and the essential elements of project management.

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

Mid-term examination

Criterion

ABILITY to APPLY and COMPARE the managerial, financial and technical decision making processes involved in the management of large and/or complex projects

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

ABILITY to APPLY the managerial, financial and technical decision making processes involved in the management of large and/or complex projects; and the principles and operations of construction projects of different countries, especially the one with PRC. ABILITY to APPLY and COMPARE the management techniques in the construction project; and the essential elements of project management.

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

Introduction to Project Management, Information Management, Project Finance, Accounting and Cost Control; Quality Management; Safety Management; Risk Management; Cross-cultural Considerations; Future for Major Project Management; PRC Ventures.

Reading List**Compulsory Readings**

Title	
1	Nil

Additional Readings

Title	
1	Harrison, F. L. 1985, Advanced Project Management, 2nd edition, Gower.
2	Oxley, R. and Poskitt, J. 1986, Management Techniques Applied to the Construction Industry, Surveyors Publications.
3	Lock, D. 1988, Project Management, 4th edition, Prentice Hall.
4	Franks, J. 1990, Building Procurement Systems - A Guide to Building Project Management, 2nd edition., Chartered Institute of Building.
5	Stebbing, Lionel 1993, Quality Assurance - the Route to Efficiency and Competitiveness, 3rd edition, Ellis Horwood.
6	Cleland, D. I. 1994, Project Management - Strategic Design and Implementation, 2nd edition, McGraw Hill.