CA5106: PROJECT MANAGEMENT

Effective Term
Semester B 2024/25

Part I Course Overview

Course Title
Project Management

Subject Code
CA - Civil and Architectural Engineering
Course Number
5106

Academic Unit
Architecture and Civil Engineering (CA)

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

Equivalent Courses
BC5106 Project Management

Part II Course Details

Abstract
The aims of this course are to provide the students with an in-depth and advanced understanding of the project management principles. The rationale behind the choice of procurement strategies will be examined. In order to keep up with current ever-changing construction environment, not only the traditional fragmented approach of project management will be discussed, an integral approach, including value, supply chain, information, safety, health, risk assessment will also be examined. Construction project collaboration including partnering in various forms and with other countries, especially with PRC is also included in this course. Accordingly, issues in cross-cultural considerations and PRC ventures will also be discussed.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	identify, explain, critically comment and apply the main body of project management principles;		x	x	
2	be able to develop specific project strategies to fulfill the objectives of the client and other stakeholders;		x	x	
3	demonstrate skills pertinent to the management of construction projects;			x	
4	appraise the complexity of international contracting, especially having business operations in PRC.		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	Lectures	On topics related to construction project management	1, 2, 3, 4	2 hrs/week
2	Tutorials	In class discussions	1, 2, 3, 4	1 hrs/week

Additional Information for LTAs

Semester Hours: 3 hours per week

Lecture/Tutorial/Laboratory Mix: Lecture (2); Tutorial (1); Laboratory (0)

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Assignments (2 pcs)	1, 2, 3, 4	30	
2	Mid-term test	1, 2, 3, 4	20	

Continuous Assessment (%)

50

Examination (%)

50

Examination Duration (Hours)

2

Additional Information for ATs

Coursework including, but not limited to, assignment and mid-term test/quiz

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 (2 pcs) (Applicable to students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion

Ability to understand, analyze and apply the theories acquired in the course

Excellent

(A+, A, A-) High

Good

(B+, B, B-) Significant

Fair

(C+, C, C-) Moderate

Marginal

(D) Basic

Failure

(F) Not even reach marginal levels

Assessment Task

Mid-term Test (Applicable to students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion

Ability to understand, analyze and apply the theories acquired in the course

Excellent

(A+, A, A-) High

Good

(B+, B, B-) Significant

Fair

(C+, C, C-) Moderation

Marginal

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Failure

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Assessment Task

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

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Marginal
(D) Basic

Failure
(F) Not even reaching marginal levels

Assessment Task
Assignments (2 pcs) (Applicable to students admitted from Semester A 2022/23 to Summer Term 2024)

Criterion
Ability to understand, analyze and apply the theories acquired in the course

Excellent
(A+, A, A-) High

Good
(B+, B) Significant

Marginal
(B-, C+, C) Basic

Failure
(F) Not even reaching marginal levels

Assessment Task
Mid-term test (Applicable to students admitted from Semester A 2022/23 to Summer Term 2024)

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Part III Other Information

Keyword Syllabus
Principles of Project Management; Client Organisations, Design Teams, and Constructors; Project Procurement Strategy; Fast-tracking; Partnering and Alliancing Contract; Value Engineering; Supply Chain Management; Cost Control; Health & Safety Management; Risk Management; International Contracting & Cross-cultural Issues

Reading List

Compulsory Readings

	Title
1	Nil

Additional Readings

	Title
1	Bennett, F.L. 2003, The Management of Construction - A Project Life Cycle Approach, Butterworth Heinemann [Call # TH 438 .B4323 2003]
2	Cleland, D.I. 1999, Project Management - Strategic Design and Implementation, 3rd edition, New York: McGraw Hill [Call # HD69 .P75 S526 1999]
3	Heerkens, G. 2005, Project Management - 24 Lessons to Help You Master Any Project, New York: McGraw Hill [Call # HD69 .P75 H442 2005]
4	Oberlender, G.D. 2000, Project Management for Engineering and Construction, 2nd edition, Boston: McGraw Hill [Call # TA190 .O24 2000]
5	Silverman, M. 1988, Project Management - A Short Course for Professionals, New York: Wiley [Call # HD69 .P75 S55 1988]

6	Winch, G.M. 2002, Managing Construction Projects, Blackwell Publishing [Call # TH 438 .W556 2002]
7	www.info.gov.hk