

# CA5106: PROJECT MANAGEMENT

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## Effective Term

Semester A 2025/26

## 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 ("- for nil entry) | Allow Use of GenAI? |
|---|---------------------|------------|---------------|----------------------------|---------------------|
| 1 | Assignments (2 pcs) | 1, 2, 3, 4 | 30            | -                          | Yes                 |
| 2 | Mid-term test       | 1, 2, 3, 4 | 20            | -                          | No                  |

**Continuous Assessment (%)**

50

**Examination (%)**

50

**Examination Duration (Hours)**

2

**Minimum Continuous Assessment Passing Requirement (%)**

30

**Minimum Examination Passing Requirement (%)**

30

**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

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**Assessment Task**

Assignments (2 pcs) (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 | <a href="http://www.info.gov.hk">www.info.gov.hk</a>  |