

CA1166: PROFESSIONALS AND SOCIETY

Effective Term

Semester A 2022/23

Part I Course Overview

Course Title

Professionals and Society

Subject Code

CA - Civil and Architectural Engineering

Course Number

1166

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

Nil

Equivalent Courses

CA2066 Professionals and Society

Exclusive Courses

Nil

Part II Course Details

Abstract

The course provides the knowledge on the construction industry, stakeholders, construction project process and control system, safety and environmental issues. It enhances the concern for professional ethnics and related knowledge of students for handling construction projects and appreciating various issues in the built environment.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if DEC-A1 DEC-A2 DEC-A3 app.)		
1	explain the construction project process from initiation, design, implementation to commissioning stages and the roles of key parties in each stage			x
2	recognize the local context of the construction industry		x	
3	appreciate the important factors affecting the expedition of construction projects		x	
4	practice as a competent construction professional in compliance with the managerial, social and ethical responsibilities		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	Lectures; seminars	Introduce the essential concepts of multidisciplinary construction process and control system; and economic, legal, health, safety, environmental and ethical issues in the engineering construction and development	1, 2, 3, 4	2

2	Tutorials; site visits	Explore and discuss the contemporary trends, mechanisms and concerns of construction projects and built environment through hand-on exercises, case studies or site visits.	1, 2, 3, 4	1
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Assessment Tasks / Activities (ATs)

ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Mid-term test	1, 2, 3, 4	25
2	Assignment	1, 2, 3	25

Continuous Assessment (%)

50

Examination (%)

50

Examination Duration (Hours)

2

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**

Mid-term test

Criterion

ABILITY to RECOGNIZE and EXPLAIN the key concepts, mechanisms, and concerns of the built environment development and construction process

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

Assignment

Criterion

CAPACITY to INQUIRE and ANALYSE the issues and relevant information and references with respect to given scenarios and context.2. ABILITY to PRODUCE and ARTICULATE rational, substantiated and original discussion and/or suggestion

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 EXPLAIN and DISCUSS the key concepts, mechanisms, framework and concerns of the built environment development and construction process

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

Land and building development. Construction control system and regulations. Construction project process and management. Building dilapidation and maintenance. Safety. Pollution and green construction. Roles of construction professionals. Professionalism and ethics.

Reading List

Compulsory Readings

Title	
1	Nil

Additional Readings

Title	
1	Chan, T.W. and Sin, H.C. Construction Project Management - from Theory to Practice. (TH438 .C436)
2	Tang, S.L., Poon, S.W., Ahmed, S.M., and Wong. K.W.F. Modern Construction Project Management. (TH438 .M56)
3	The Chartered Institute of Building. Code of Practice for Project Management for Construction and Development. (TH438 .C626)
4	Hill, M.J. 2001. Building Contract Procedures in Hong Kong. (KNR85.4.B84 H55)
5	Fan, L. C.N. and Yim, K.P. Construction Management and Civil Engineering Practice in Hong Kong. (HD9715.C53 H64)
6	Tong, A. Y. H. Building and Development Control Legislation in Hong Kong. (KNR255 .T66)
7	Lingard, H. and Rowlinson, S. Occupational Health and Safety in Construction Project Management. (TH443 .L56)
8	Poon, S.W., Tang, S.L. and Wong, K.W. Management and Economics of Construction Safety in Hong Kong. (TH443 .P665)
9	Building Department, http://www.bd.gov.hk
10	Environmental Protection Department, http://www.epd.gov.hk