CA3686: CONSTRUCTION CONTRACT AND MANAGEMENT

Effective Term
Semester A 2022/23

Part I Course Overview

Course Title
Construction Contract and Management

Subject Code
CA - Civil and Architectural Engineering
Course Number
3686

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
BC3686 Construction Contract and Management

Exclusive Courses
Nil

Part II Course Details

Abstract

This course aims to provide students with the knowledge on various forms of construction contracts and tendering procedures in the construction industry, and to develop students' construction planning and management skills and techniques.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Describe various forms of construction contracts and tendering procedures in the construction industry		x		
2	Develop students' awareness of the nature of organization and managerial processes of construction project;		x		
3	Apply scheduling, planning, resource allocation, resource levelling, and cost control in managing construction projects;			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	Explain and discuss the essential practices, theories and tools for construction management and contract	1, 2, 3	
2	Tutorial	In class discussions, exercises and applications on problems related to lecture topics.	1, 2, 3	

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Assignment	1, 2	25	
2	Test	3	25	

Continuous Assessment (%)

50

Examination (%)

50

Examination Duration (Hours)

3

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

Assignment

Criterion

CAPACITY to DESCRIBE on and EXPLAIN the essential concepts, practices and theories of construction contract and 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

Test

Criterion

ABILITY to RELATE and APPLY suitable techniques and practices to manage the construction works

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
CAPACITY to EXPLAIN and DISCUSS the management concepts, practices and theories in the construction context and ABILITY to ANALYSE the construction management problems with relevant tools and techniques

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
Various forms of construction contracts, tendering and award of a construction contract, administration of construction contracts. Project scheduling, planning, and control: traditional planning techniques; CPM network based planning; resource allocation and levelling; project control.

Reading List

Compulsory Readings

	Title
1	Nil

Additional Readings

	Title
1	Chu C. and Roebuck 2002, Hong Kong Contracts, Hong Kong University Press - Law Series, HK.
2	Ewan Mckendrick 2004, Contract Law, Macmillan, 4th edition.
3	Owen S. 1997, Law for the Construction Industry, Longman, 2nd edition.
4	Robert Duxbury 2004, Contract Law in a Nutshell, Sweet & Maxwell, 6th edition.
5	Ordinances: Companies Ordinance, Cap. 32; Control of Exemption Clauses Ordinance, Cap. 71; Misrepresentation Ordinance, Cap. 284; Sales of Goods Ordinance, Cap. 26; Supply of Services (Implied Terms) Ordinance. Cap. 457
6	Harris, F. & McCaffer, R. 1995, Modern Construction Management, 4th Edition, Blackwell Science.
7	Stoner, J.A.F. & Freeman, R.E. 1992, Management, 5th Edition 1992, Prentice Hall.

8	Mawdesley, M., Askew, W. and O'Reilly, M. 1997, Planning and Controlling Construction Projects, Longman.
9	Ballie, D.S. & Paulson, B.C. 1992, Professional Construction Management, McGraw Hill.
10	Callahan, M.T., Quackenbush, P.G. & Rowings, J.E. 1992, Construction Project Scheduling, McGraw Hill.
11	C.I.O.B. 1980, The Practice of Site Management - Volumes 1-3.
12	Fryer, B. 1997, The Practice of Construction Management, 3rd Edition, BSP Professional Books.
13	Murdoch, J. & Hughes, W. 1992, Construction Contracts Law and Management, 1st Edition, E & F N Spon.
14	Oxley, R & Poskitt, J. 1996, Management Techniques Applied to the Construction Industry, 5th ed, Blackwell Science.