CA4525: INTEGRATED BUILDING PROJECT DEVELOPMENT (ARCHITECTURAL STUDIES)

Effective Term
Semester A 2025/26

Part I Course Overview

Course Title
Integrated Building Project Development (Architectural Studies)

Subject Code
CA - Civil and Architectural Engineering
Course Number
4525

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
CA3341A Architectural Design: Context (Topic 1)/ CA3341B Architectural Design: Context (Topic 2) or CA3185A Architectural Design 5: Programming and Typology (Topic 1) / CA3185B Architectural Design 5: Programming and Typology (Topic 2)

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

Equivalent Courses
CA4528 Integrated Building Project Development (Architecture)

Exclusive Courses
Nil

Part II Course Details

Abstract

The aim of Integrated Building Project Development is to provide students with an opportunity to develop ability to coordinate and integrate essential aspects of building project including but not limited to client’ s requirements, civil engineering, building services, budget in addition to basic regulatory compliance through a teamwork.

Students will form teams through which, they will work together in developing feasible design solutions that incorporates key disciplines of building design while achieving function, constructability as well aesthetics.

The course is designed to simulate working environment where multiple requirements are considered simultaneously from preliminary design phase to construction in a collaborative working environment.

Students will develop an understanding and an appreciation of multidisciplinary design process therefore, identifying the needs for working knowledge in multidisciplinary design through integration and coordination that ultimately enhances architectural and spatial design.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Define key issues of architectural design for a building to be realised				x
2	Identify key considerations in development such as constructability, functionality and compliance that meets client’ s requirements		x		
3	Develop a coordinated design solution			x	
4	Review and revise through integration and coordination			x	
5	Create a practical solution(s) through teamwork				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	Seminars and team meetings	Students will form groups and engage in seminars and team meetings to carry out a team project	1, 2, 3, 4, 5	

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks ("-" for nil entry)	Allow Use of GenAI?
1	Oral presentations / written submissions / group discussions	1, 2, 3, 4, 5	100		No

Continuous Assessment (%)

100

Examination (%)

0

Minimum Continuous Assessment Passing Requirement (%)

40

Minimum Examination Passing Requirement (%)

0

Assessment Rubrics (AR)

Assessment Task

Oral presentations / written submissions / group discussions

Criterion

Oral presentations
1.1 ABILITY to COLLABRATE to form a teamwork
1.2 ABILITY to ORGANIZE the presentation
1.3 ABILITY to clearly PRESENT the contents (including the use of English, eye contact, voice, and the use of technology)

Written submissions
2.1 ABILITY to COLLABRATE as a team
2.2 ABILITY to ORGANIZE the submission
2.3 ABILITY to graphically PRESENT the solutions
2.4 ABILITY to CONCLUDE the findings

Group discussions
3.1 ABILITY to COMMUNICATE and ORGANIZE
3.2 ABILITY to have INDEPENDENT and CRITICAL THINKING
3.3 ABILITY to have CREATIVE ideas

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

Teamwork, problem identification, feasible solution generation, multilateral design process, integration, multidisciplinary design, coordination, building design and layout, building control, functional requirements, and report production and presentation

Reading List

Compulsory Readings

	Title
1	Nil

Additional Readings

	Title
1	American Institute of Architects (2009). The architecture student's handbook of professional practice. Hoboken, Wiley.
2	Hayes, R. L. (Ed.) (2014). The architect's handbook of professional practice. Hoboken, Wiley.
3	Hong Kong Institute of Architects. HKIA Agreement between Client and Architect and Scale of Professional Charges. Hong Kong: Hong Kong Institute of Architects.
4	Mort, S. (1992). Professional report writing. Aldershot: Gower.
5	Ostime, N. (2013). RIBA job book. London: RIBA Publishing.
6	Salisbury, F. (1990). Architect's handbook for client briefing. London: Butterworth Architecture.
7	Sinclair, D. (2013). Guide to using the RIBA plan of work 2013. London: RIBA Enterprises Ltd