CA2343B: ARCHITECTURAL DESIGN - SPACE MAKING (TOPIC 2)

Effective Term
Semester A 2024/25

Part I Course Overview

Course Title
Architectural Design - Space Making (Topic 2)

Subject Code
CA - Civil and Architectural Engineering
Course Number
2343B

Academic Unit
Architecture and Civil Engineering (CA)

College/School
College of Engineering (EG)

Course Duration
One Semester

Credit Units
6

Level
B1, B2, B3, B4 - Bachelor's Degree

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
Nil

Precursors
Nil

Equivalent Courses
CA2343A Architectural Design - Space Making (Topic 1)

Exclusive Courses
Nil

Part II Course Details

Abstract

The aim of this course is to let students experience and get accustomed with space making processes, steps and impacts. The specific topic, selected by the studio tutor, will target at the design of a small building with focus in forming space for function and experience. Forming space problematic is understood in this course as a field of explorations in order to understand interactions between shape, function and design intentions. The content of the course will allow students to understand the potentials of design strategies and their impact into the built environment and people's life.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Collect and organise information from various sources to facilitate the preparation of design proposals.		x	x	
2	Explore space making process in the context of a building project.		x	x	
3	Understand and apply design consideration of users, space, functions, and expression of forms in a building project.		x	x	
4	Formulate a design proposal in response to the shape and form, function and space, and design intentions.				x
5	Develop architectural design proposals to satisfy the users and programme requirements.				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	Design Project	Students will produce an integrated proposal for a building design of a specific topic in response to a set of constraints and requirements. Students will develop their individual design proposals under the facilitation of a studio tutor.	1, 2, 3, 4, 5	6 hrs/ week

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Interim Presentation	1, 2, 3	30	
2	Final Presentation	3, 4, 5	50	
3	Assignments (such as reports, portfolio and others)	1, 4	20	

Continuous Assessment (%)

100

Examination (%)

0

Assessment Rubrics (AR)

Assessment Task

1. Interim Presentation

Criterion

1.1 Thorough space making process in the context of a building project.

1.2 Demonstrate ability to organise information from various sources to facilitate the preparation of design proposals.

1.3 Thorough and skilful application of design consideration of users, space, functions, and expression of forms in a building project.

Excellent (A+, A, A-)

High

Good (B+, B, B-)

Significant

Fair (C+, C, C-)

Moderate

Marginal (D)

Basic

Failure (F)

Not even reaching marginal level

Assessment Task

2. Final Presentation

Criterion

2.1 Thorough and skilful application of design consideration of users, space, functions, and expression of forms in a building project.

2.2 Formulate an innovative design proposal in response to the shape and form, function and space, and design intentions.

2.3 Develop and communicate a comprehensive architectural design proposals to satisfy the users and programme requirements.

Excellent (A+, A, A-)
High

Good (B+, B, B-)
Significant

Fair (C+, C, C-)
Moderate

Marginal (D)
Basic

Failure (F)
Not even reaching marginal level

Assessment Task
3. Assignments (such as reports, portfolio and others)

Criterion
3.1 Documentation of a thorough space making process in the context of a building project, or the comprehensive design proposal to illustrate the satisfaction of users and programme requirements.

Excellent (A+, A, A-)
High

Good (B+, B, B-)
Significant

Fair (C+, C, C-)
Moderate

Marginal (D)
Basic

Failure (F)
Not even reaching marginal level

Part III Other Information

Keyword Syllabus
Architectural design: Small-scale building development; space making process; exploring the potential of the architecture; space, form and function, translating intentions into design strategies.

Design integration: Users and programme strategies in design; integration of space, form and functions.

Communication: Intermediate graphic, presentation models and oral presentation.

Reading List

Compulsory Readings

	Title
1	Foster, J.S. (2007). Structure and fabric Part 1 (7th ed). New York: Pearson/Prentice Hall.
2	Kumlin, R. (1995). Architectural programming: creative techniques for design professionals. New York: McGraw-Hill.
3	Laseau, P. (2001). Graphic thinking for architects & designers (3rd ed). New York: J. Wiley.
4	Neufert, N. (2000). Architects' data (3rd ed). Malden, MA: Blackwell Science.
5	Tutt, P. and Adler, D. (1988). New metric handbook (Rev. ed). London: Butterworth Architecture.
6	Parnell, R. and Rachel, S. (2007). The Crit. An Architecture Student’s Handbook. Second edition, Architectural Press, Elsevier.
7	Unwin, S. (2003). Analysing architecture (2nd ed). New York: Routledge.
8	Laseau, P. (2001). Graphic thinking for architects & designers (3rd ed). New York: J. Wiley.
9	Ching, F. (1996). Architecture: form, space, & order (2nd ed). New York: Van Nostrand Reinhold.

Additional Readings

	Title
1	Nil