

CA5160: ADVANCED ARCHITECTURAL DESIGN STUDIO: ESG OF SUSTAINABLE DEVELOPMENT

Effective Term

Semester B 2024/25

Part I Course Overview

Course Title

Advanced Architectural Design Studio: ESG of Sustainable Development

Subject Code

CA - Civil and Architectural Engineering

Course Number

5160

Academic Unit

Architecture and Civil Engineering (CA)

College/School

College of Engineering (EG)

Course Duration

One Semester

Credit Units

6

Level

P5, P6 - Postgraduate Degree

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

Nil

Exclusive Courses

Nil

Part II Course Details

Abstract

The themed studio series includes six different studio foci; it aims to provide students with a studio environment to explore areas of their own interest and prepare them to formulate their independent study in the Architectural Thesis Studio. This course aims to equip students with a holistic understanding and practical application of architectural design by focusing on balancing the impact of architectural proposals on our environment, society and governance. The studio projects focus on proposals or experiments to appropriate strategies to achieve ESG in development.

Course Intended Learning Outcomes (CILOs)

CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Apply standards of ESG in sustainable development	x	x	
2	Formulate design concepts and schematic design alternatives by proposing new strategies for the design of a sustainable project development	x	x	
3	Design a project of sustainable architecture focusing on ESG issues		x	x
4	Prepare professional presentation and documentation of a design proposal		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	Design Studio	Students will engage in the studio to use advanced design approaches of evaluating and adaptation of ESG in sustainable development project; Developing new innovative design strategies to demonstrate a new model of sustainable development; Demonstrating a new paradigm for sustainable design in the 21st century.	1, 2, 3, 4

Additional Information for LTAs

Semester Hours: 6 hours per week

Lecture/Tutorial/Laboratory Mix: Lecture (0); Tutorial (0); Laboratory (6*)

*Studio

Assessment Tasks / Activities (ATs)

ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)	
1	Assignments	1, 2, 3, 4	100	Design project

Continuous Assessment (%)

100

Examination (%)

0

Assessment Rubrics (AR)**Assessment Task**

Assignments (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion

Ability to apply advanced design methods of evaluating and adaptation of ESG in sustainable development project ;
 Attitude to develop new innovative design strategies to demonstrate a new model of sustainable development ;
 Ability to demonstrate a new paradigm for sustainable design in the 21st century.

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

Assignments (for students admitted from Semester A 2022/23 to Summer Term 2024)

Criterion

Ability to apply advanced design methods of evaluating and adaptation of ESG in sustainable development project ;
 Attitude to develop new innovative design strategies to demonstrate a new model of sustainable development ;
 Ability to demonstrate a new paradigm for sustainable design in the 21st century.

Excellent

(A+, A, A-) High

Good

(B+, B,) Significant

Marginal

(B-, C+, C) Basic

Failure

(F) Not even reaching marginal levels

Part III Other Information**Keyword Syllabus**

Architectural design, Design studio, Contextual analysis, Emerging architectural issues, Advanced Design Strategy, ESG in Architecture, Sustainable Design Development

Reading List**Compulsory Readings**

Title	
1	Nil

Additional Readings

Title	
1	(2014) Improving Global Environmental Governance: Best Practices for Architecture and Agency (Routledge Research in Global Environmental Governance)/ edited by Norichika Kanie, Steinar Andresen, Peter M. Haas. Routledge
2	Tushar Mittal. (2020) Beyond Sustainability: moving towards regenerative architecture