

CA4529: ARCHITECTURAL DESIGN: FINAL YEAR DESIGN RESEARCH PROJECT PART 1

Effective Term

Semester A 2025/26

Part I Course Overview

Course Title

Architectural Design: Final Year Design Research Project Part 1

Subject Code

CA - Civil and Architectural Engineering

Course Number

4529

Academic Unit

Architecture and Civil Engineering (CA)

College/School

College of Engineering (EG)

Course Duration

One Semester

Credit Units

9

Level

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

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

CA3340A Architectural Design – Integration (Topic 1) or CA3340B Architectural Design – Integration (Topic 2); and CA3341A Architectural Design – Context (Topic 1) or CA3341B Architectural Design – Context (Topic 2)

Equivalent Courses

CA4539 Architectural Design: Final Year Design Research Project Part 1

Exclusive Courses

Nil

Part II Course Details

Abstract

The Final Year Design Research Project (FYDRP) enables integrated application of theory, knowledge and skills gained so far. It is a year-long 'capstone' project, comprising Parts 1 and 2, completed in Semesters 4A and 4B respectively. The project will incorporate substantial elements of both research and design, developed around a topic of personal interest and in consultation with their dedicated project supervisor. Students will also be supported by a team of supervisors. They will also be expected to work independently, and to demonstrate that they have initiative, project management skills, intellectual maturity as well as a deep understanding of their chosen topic and design. This course 'Architectural Design 6: Final Year Design and Research Project Part 1' will provide foundational training in methods and techniques for design research, and support for developing an appropriate project scope and structure, as well as in executing a stage of the architectural proposition itself.

Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if DEC-A1 DEC-A2 DEC-A3 app.)			
1	Produce either an annotated bibliography, or a critical literature review, including drawing on relevant theories, and relevant desktop research.			x	
2	Conduct a context analysis of the design site(s).			x	
3	Select and explain a selected topic of study in association with their design site(s).			x	
4	Justify and apply a relevant research question(s) based on their understanding of the research topic and design site.		x	x	
5	Design a methodology to address the research question(s), including selecting and deploying appropriate methods and techniques for design research.			x	
6	Synthesize the different strands and themes of research and design, and formulate and execute proposed actions that take the project to a relevant stage of completion.				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 Research Tutorials	Students will engage in Design Research Tutorials facilitated by a design research supervisor, either group or individual, in a studio / small group context.	1, 2, 3, 4, 5, 6	varies
2	Project / Design Reviews	Students will engage in presentations of their work in progress, and the supervisor and other reviewers will discuss students' work and provide feedback for improvement.	1, 2, 3, 4, 5, 6	varies
3	Lectures and Seminars	Students may engage in Lectures and Seminars conducted when common knowledge is to be shared with the whole cohort. They may provide the basis of discussion in Tutorials.	1, 2, 3, 4, 5, 6	varies

Assessment Tasks / Activities (ATs)

ATs		CILO No.	Weighting (%)	Remarks ("-" for nil entry)	Allow Use of GenAI?
1	Presentation (Design and Research)	1, 2, 3, 4	25		Yes
2	Interim Review(s) (Design and Research)	2, 3, 5	35		Yes
3	Final Review and Submission of Self-standing design and / or research work	5, 6	40		Yes

Continuous Assessment (%)

100

Examination (%)

0

Minimum Continuous Assessment Passing Requirement (%)

40

Minimum Examination Passing Requirement (%)

0

Assessment Rubrics (AR)

Assessment Task

Presentation (Design and Research)

Criterion

Thoroughness of coverage, well-synthesised, oriented towards the research question.

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

Interim Review(s) (Design and Research)

Criterion

Thoroughness of coverage, depth of understanding of why this topic and site, coherence in relation to literature review.

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

Final Review and Submission of Self-standing design and / or research work

Criterion

Judgment in the execution of research or design, rigour in drawing conclusions, quality of communication of results or design outcomes.

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 research. Design research. Research for design. Research by design. Research about design. Literature review. Research methodology and design. Data collection and analysis. Interpretation of findings. Implications and recommendations. Communication of results.

Reading List

Compulsory Readings

Title	
1	Groat, L.N. and Wang, D., (2013). Architectural research methods. John Wiley & Sons.
2	Borden, I. and Ruedi, K. (2006). The Dissertation: An architecture student's handbook. Boston: Architectural Press.

Additional Readings

Title	
1	Creswell, J. W. (2009). Research design: Qualitative, quantitative, and mixed methods approaches (3rd ed). Thousand Oaks: Sage.
2	Denzin, N. K. and Lincoln, Y. S. (Eds.) (2003). Collecting and interpreting qualitative materials (2nd ed). Thousand Oaks: Sage.
3	Emmison, M. (2000). Researching the visual: Images, objects, contexts and interactions in social and cultural inquiry. London: Sage.
4	Leach, N. (Ed.) (2002). The Hieroglyphics of space: reading and experiencing the modern metropolis. London: Routledge.
5	Neuman, W. L. (2006). Social research methods: Qualitative and quantitative approaches (6th ed). Boston: Allyn and Bacon.
6	Prosser, J. (Ed.) (1998). Image-based research: a sourcebook for qualitative researchers. Bristol: Falmer Press.
7	Punch, K. F. (2006). Developing effective research proposals (2nd ed). London: Sage.
8	Rose, G. (2007). Visual methodologies: An introduction to the interpretation of visual materials (2nd ed). Thousand Oaks: Sage.
9	Sommer, R. and Sommer, B. (2002). A practical guide to behavioral research: Tools and techniques (5th ed). New York: Oxford University Press.

10	Weber, J. A. (2000). Architecture everywhere: Investigating the built environment of your community. Tucson: Zephyr Press.
11	Yin, R. K. (2009). Case study research: Design and methods (4th ed). Thousand Oaks: Sage