

CA4513: FINAL YEAR PROJECT

Effective Term

Semester A 2025/26

Part I Course Overview

Course Title

Final Year Project

Subject Code

CA - Civil and Architectural Engineering

Course Number

4513

Academic Unit

Architecture and Civil Engineering (CA)

College/School

College of Engineering (EG)

Course Duration

Two Semesters

Credit Units

0-6

Level

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

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

CA3214 Construction Economics, and CA3314 Surveying Studio, and CA3321 Construction Contracts II, and CA3324 Advanced Surveying Studio, and CA3629 Building and Fire Safety Control, and CA3691 Building Services for Building Professionals, and CA3703 Construction Methods and Equipment. Students must have attempted (including class attendance, coursework submission, and examination) the precursor course(s) so identified.

Equivalent Courses

BC4513/BC4513F Final Year Project

Exclusive Courses

Nil

Part II Course Details

Abstract

The aim of the final year project is to give students the opportunity to demonstrate both their academic quality and their ability to carry out a substantial piece of independent research and/or development work, and in the process to allow them to discover their expertise in a chosen subject area related to the course. In undertaking the final year project, the student will be able to demonstrate his/her initiative and intellectual achievement, his/her comprehension of the chosen subject matter, and his/her capacity of formulating the theoretical principles in practical situations. The student will also develop and demonstrate his/her ability to manage and present the end product in a precise and coherent manner.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if DEC-A1 DEC-A2 DEC-A3 app.)		
1	organise and design a substantial piece of individual research and development work;			x
2	critically assess literature and material data relevant to the chosen area;			x
3	pursue and discover an area of academic discipline of the course to substantial depth;			x
4	utilize and apply appropriate theory and techniques developed during the course to the chosen area; and			x
5	communicate effectively in writing a programme of work and, if required, orally defend the final product in a logical, precise and coherent manner.			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	Meetings and discussions	Regular meeting between students and their respective supervisors	1, 2, 4, 5	
2	Oral presentation	Interim oral presentation in the first semester and final oral presentation in the second semester	1, 2, 3, 4, 5	

3	Report and thesis writing	Submission of interim report in the first semester and a complete thesis in the second semester	1, 2, 3, 4, 5	
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Assessment Tasks / Activities (ATs)

ATs	CILO No.	Weighting (%)	Remarks ("- " for nil entry)	Allow Use of GenAI?	
1	Interim report and presentation	1, 2, 3, 4, 5	40	-	No
2	Thesis and final oral presentation	1, 2, 3, 4, 5	60	-	No

Continuous Assessment (%)

100

Examination (%)

0

Minimum Continuous Assessment Passing Requirement (%)

40

Minimum Examination Passing Requirement (%)

0

Assessment Rubrics (AR)**Assessment Task**

Interim report and presentation

Criterion

1. ABILITY to EXPLAIN the methodology and procedure with ACCURACY in using the modelling techniques
2. CAPACITY for SELF-DIRECTED LEARNING to understand the principles of a specific research topic
3. ABILITY to APPLY the scientific techniques in solving theoretical and application problems of a specific research topic
4. ABILITY to COMMUNICATE and PRESENT scientific information effectively and confidently

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

Thesis and final oral presentation

Criterion

1. ABILITY to EXPLAIN the methodology and procedure with ACCURACY in using the modelling techniques
2. CAPACITY for SELF-DIRECTED LEARNING to understand the principles of a specific research topic
3. ABILITY to APPLY the scientific techniques in solving theoretical and application problems of a specific research topic
4. ABILITY to COMMUNICATE and PRESENT scientific information effectively and confidently

Excellent (A+, A, A-)

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Significant

Fair (C+, C, C-)

Moderate

Marginal (D)

Basic

Failure (F)

Not even reaching marginal levels

Part III Other Information

Keyword Syllabus

Students are required to conduct an independent research in accordance with the rules and guidelines stipulated in the FYP guide book.

Reading List

Compulsory Readings

Title	
1	Nil

Additional Readings

Title	
1	Anderson, J and Poole, M. 2001, Assignment and Thesis Writing, 4th edition, Wiley, Brisbane. [LB2369.A63 2001]
2	Fellows, R. and Liu, M.M. 1997, Research Methods for Construction, 3rd edition, Wiley-Blackwell, Oxford. [TH213.5.F45 2008]
3	Mauch, J.E. and Park, N. 2003, Guide to the Successful Thesis and Dissertation: A Handbook for Students and Faculty, 5th edition, M. Dekker, New York. [LB2369.M377 2003]
4	Naoum, S.G. 2007, Dissertation Research and Writing for Construction Students, Butterwort-Heinemann, Oxford. [LB2369.N26 2007]
5	Preece R.A. 1994, Starting Research: An Introduction to Academic Research and Dissertation Writing, Pinter Pub., London. [LB2369.P69 1994]
6	Swetnam, D. 2000, Writing Your Dissertation: How to Plan, Prepare and Present Successful Work, 3rd edition, How to Books, Oxford. [LB2369.S83 2000]
7	Tam, C.M., Tong, K.L. and Zhang, H. 2007, Decision Making and Operations Research Techniques for Construction Management, City University of Hong Kong, Hong Kong. [TH438.T35 2007]