UNSW Course Outline

BLDG4022 Construction Cost Management - 2024

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General Course Information

Course Code : BLDG4022
Year : 2024
Term : Term 2
Teaching Period : T2
Is a multi-term course? : No
Faculty : Faculty of Arts, Design and Architecture
Academic Unit : School of Built Environment
Delivery Mode : Multimodal
Delivery Format : Standard
Delivery Location : Kensington
Campus : Sydney
Study Level : Undergraduate
Units of Credit : 6

Useful Links

Handbook Class Timetable

Course Details & Outcomes

Course Description

Construction Cost Management focuses on the fundamentals of cost management in the post-contract stage of construction projects. You will learn about life-cycle costing, cash flow control, interim valuation, variations, financial statement, and final accounts. Industry-based examples on

cost management during post contract stage are presented.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Explain the principles, components and process of construction cost management.
CLO2 : Apply standard cost control techniques to the post-contract stage of construction projects.
CLO3 : Discuss common practices in relation to interim valuation, variations and final accounts during construction post contract stage.
CLO4 : Apply life-cycle costing methods in relation to sustainable construction.

Course Learning Outcomes	Assessment Item
CLO1 : Explain the principles, components and process of construction cost management.	• Individual Essay • Final Exam • Group Assignment
CLO2 : Apply standard cost control techniques to the post-contract stage of construction projects.	• Final Exam • Group Assignment
CLO3 : Discuss common practices in relation to interim valuation, variations and final accounts during construction post contract stage.	• Individual Essay • Final Exam • Group Assignment
CLO4 : Apply life-cycle costing methods in relation to sustainable construction.	• Final Exam • Group Assignment

Learning and Teaching Technologies

Moodle - Learning Management System

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Individual Essay Assessment Format: Individual	20%	Start Date: Not Applicable Due Date: 08/07/2024 11:55 PM
Final Exam Assessment Format: Individual	50%	Start Date: Not Applicable Due Date: TBC
Group Assignment Assessment Format: Group	30%	Start Date: Not Applicable Due Date: 22/07/2024 11:55 PM

Assessment Details
Individual Essay

Assessment Overview

You will write an essay addressing questions on post contract cost management. Grading will be done against assessment criteria, accompanied by written feedback.

Course Learning Outcomes

- CLO1 : Explain the principles, components and process of construction cost management.
- CLO3 : Discuss common practices in relation to interim valuation, variations and final accounts during construction post contract stage.

Detailed Assessment Description

You will answer 3-5 questions on post contract cost management. You will answer the questions at home and upload it via turn-it-in.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Final Exam

Assessment Overview

The final exam will assess your knowledge of the key concepts and techniques covered in the course. Feedback will be provided by the course convenor upon request.

Course Learning Outcomes

- CLO1 : Explain the principles, components and process of construction cost management.
- CLO2 : Apply standard cost control techniques to the post-contract stage of construction projects.
- CLO3 : Discuss common practices in relation to interim valuation, variations and final accounts during construction post contract stage.
- CLO4 : Apply life-cycle costing methods in relation to sustainable construction.

Detailed Assessment Description

You will sit for an exam involving calculations and/or essay questions. Calculations may include (but not limited to) cashflow forecasting, interim valuations, final accounts, life cycle costing and carbon calculations.

Group Assignment

<u>Assessment Overview</u>

In a group, you will respond to considerations in relation to cost management of a post contract stage of a project. Grading will be done against assessment criteria, accompanied by written feedback to the group.

<u>Course Learning Outcomes</u>

- CLO1 : Explain the principles, components and process of construction cost management.
- CLO2 : Apply standard cost control techniques to the post-contract stage of construction projects.
- CLO3 : Discuss common practices in relation to interim valuation, variations and final accounts during construction post contract stage.
- CLO4 : Apply life-cycle costing methods in relation to sustainable construction.

General Assessment Information

The Use of Artificial Intelligence in Assessments

For assessment tasks, you may use standard editing and referencing software, but not generative AI. You are permitted to use the full capabilities of standard software such as Microsoft Suite or Grammarly to answer the question. If the use of generative AI such as ChatGPT is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

<u>Grading Basis</u>

Standard

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 27 May - 2 June	Lecture	Week 1 is an introduction week (By Kenneth Yiu).
Week 2 : 3 June - 9 June	Lecture	Lecture Topic: Pre and post contract cost management: Refresher (By Dr Chethana Illankoon)
	Tutorial	Tutorial: Same topic as the Lecture
Week 3 : 10 June - 16 June	Lecture	Lecture Topic: Case Flow (By Kenneth Yiu)
	Tutorial	Tutorial: Same topic as the Lecture
Week 4 : 17 June - 23 June	Lecture	Lecture Topic: Interim Valuation and Payment (By Kenneth Yiu)
	Tutorial	Tutorial: Same topic as the Lecture
Week 5 : 24 June - 30 June	Lecture	Lecture Topic: Variations and Financial Report (By Kenneth Yiu)
	Tutorial	Tutorial: Same topic as the Lecture
Week 6 : 1 July - 7 July	Other	Flexibility Week (No lecture and tutorial)
Week 7 : 8 July - 14 July	Lecture	Lecture Topic: Life Cycle Costing (By Dr Chethana Illankoon)
	Tutorial	Tutorial: Same topic as the Lecture
Week 8 : 15 July - 21 July	Lecture	Lecture Topic: Claims and Final Account (By Kenneth Yiu) Guest Lecture Topic: TBC
	Tutorial	Tutorial: Same topic as the Lecture
Week 9 : 22 July - 28 July	Lecture	Lecture Topic: Sustainable Development in Construction (By Dr Chethana Illankoon)
	Tutorial	Tutorial: Same topic as the Lecture
Week 10 : 29 July - 4 August	Lecture	Week 10: Revision (By Kenneth Yiu)

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

Course Resources

Recommended Resources

A reading list generated by Leganto is available on the Moodle site of this course.

Course Evaluation and Development

We encourage and support students to maintain regular contact with the course convenor to provide informal feedback throughout the course. For specific issues or detailed feedback, please arrange a meeting with the course convenor via email.

In this course there is an option for students to provide anonymous feedback via the course's Moodle page, which is directly sent to the convenor. As a final step, students are invited to share

their insights and experiences by completing the MyExperience survey. The feedback gathered each year is integral to the continuous enhancement and development of the course.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Kenneth Yiu		Room 3001, Level 3, H13 Anita Lawrence Centre	02 9348 1603	By Appointment	No	Yes
Lecturer	Chethana Il lankoon				By Appointment	No	No

Other Useful Information

Academic Information

Due to evolving advice by NSW Health, students must check for updated information regarding online learning for all Arts, Design and Architecture courses this term (via Moodle or course information provided).

Please see: https://www.unsw.edu.au/arts-design-architecture/student-life/resources-support/protocols-guidelines for essential student information relating to:

- UNSW and Faculty policies and procedures;
- Student Support Services;
- Dean's List;
- review of results;
- credit transfer;
- cross-institutional study and exchange;
- examination information;
- enrolment information;
- Special Consideration in the event of illness or misadventure;
- student equity and disability;

And other essential academic information.

Academic Honesty and Plagiarism

Plagiarism is using the words or ideas of others and presenting them as your own. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement.

UNSW groups plagiarism into the following categories:

- Copying: Using the same or very similar words to the original text or idea without acknowledging the source or using quotation marks. This includes copying materials, ideas or concepts from a book, article, report or other written document, presentation, composition, artwork, design, drawing, circuitry, computer program or software, website, internet, other electronic resource, or another person's assignment without appropriate acknowledgement.
- Inappropriate paraphrasing: Changing a few words and phrases while mostly retaining the original information, structure and/or progression of ideas of the original without acknowledgement. This also applies in presentations where someone paraphrases another's ideas or words without credit and to piecing together quotes and paraphrases into a new whole, without appropriate referencing.
- Collusion: Working with others but passing off the work as a person's individual work. Collusion also includes providing your work to another student for the purpose of them plagiarising, paying another person to perform an academic task, stealing or acquiring another person's academic work and copying it, offering to complete another person's work or seeking payment for completing academic work.
- Inappropriate citation: Citing sources which have not been read, without acknowledging the "secondary" source from which knowledge of them has been obtained.
- Duplication ("self-plagiarism"): Submitting your own work, in whole or in part, where it has previously been prepared or submitted for another assessment or course at UNSW or another university.

The UNSW Academic Skills support offers resources and individual consultations. Students are also reminded that careful time management is an important part of study. One of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and proper referencing of sources in preparing all assessment items. UNSW Library has the ELISE tool available to assist you with your study at UNSW. ELISE is designed to introduce new students to studying at UNSW, but it can also be a great refresher during your study.

Completing the ELISE tutorial and quiz will enable you to:

- analyse topics, plan responses and organise research for academic writing and other assessment tasks
- effectively and efficiently find appropriate information sources and evaluate relevance to your needs
- use and manage information effectively to accomplish a specific purpose
- better manage your time
- understand your rights and responsibilities as a student at UNSW
- be aware of plagiarism, copyright, UNSW Student Code of Conduct and Acceptable Use of UNSW ICT Resources Policy
- be aware of the standards of behaviour expected of everyone in the UNSW community

- locate services and information about UNSW and UNSW Library

Use of AI for assessments

As AI applications continue to develop, and technology rapidly progresses around us, we remain committed to our values around academic integrity at UNSW. Where the use of AI tools, such as ChatGPT, has been permitted by your course convener, they must be properly credited and your submissions must be substantially your own work.

In cases where the use of AI has been prohibited, please respect this and be aware that where unauthorised use is detected, penalties will apply.

[Use of AI for assessments | UNSW Current Students](#)

Submission of Assessment Tasks

Turnitin Submission

If you encounter a problem when attempting to submit your assignment through Turnitin, please telephone External Support on 9385 3331 or email them on externalteltsupport@unsw.edu.au

Support hours are 8:00am – 10:00pm on weekdays and 9:00am – 5:00pm on weekends (365 days a year). If you are unable to submit your assignment due to a fault with Turnitin, you may apply for an extension, but you must retain your ticket number from External Support (along with any other relevant documents) to include as evidence to support your extension application. If you email External Support, you will automatically receive a ticket number, but if you telephone, you will need to specifically ask for one. Turnitin also provides updates on their system status on Twitter.

Generally, assessment tasks must be submitted electronically via either Turnitin or a Moodle assignment. In instances where this is not possible, alternative submission details will be stated on your course's Moodle site. For information on how to submit assignments online via Moodle: https://student.unsw.edu.au/how-submit-assignment-moodle

Late Submission Penalty

UNSW has a standard late submission penalty of:

- 5% per calendar day,
- for all assessments where a penalty applies,

- capped at five calendar days (120 hours) from the assessment deadline, after which a student cannot submit an assessment, and
- no permitted variation.

Students are expected to manage their time to meet deadlines and to request Special Consideration as early as possible before the deadline. Support with Time Management is available here.

School Contact Information

beadmin@unsw.edu.au