UNSW SYDNEY | Australia's Global University

Built Environment

BLDG3022
Construction Project Management Practice Capstone

Dr Mohammad Mojtahedi

3+ Abbreviated Course Outline – T3

Disclaimer
This abbreviated course outline is indicative of the outcomes, delivery and assessment. While Course Learning Outcomes will remain constant, other details may be subject to change. The full and most accurate course outline will be available in Moodle.

1. COURSE STAFF

Course Convenor	Dr Mohammad Mojtahedi
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2. COURSE DETAILS

Credit Points: 6 UoC

Learning Activity	Hours per week
Lecture	1
Tutorial	2
Studio	0
Computer Lab	0
Online learning activity	1

Description

This Subject involves a major actual UNSW building Capstone Project that provides you with the opportunity to demonstrate and integrate their professional construction project management knowledge and skills acquired throughout their Bachelor of Construction Management & Property course.

Working in groups, you are required to develop the construction project management plan of how you & your Group will project manage the construction of a large and significant Capstone Project.

Program Learning Outcomes (PLOs)

1. Demonstrate a comprehensive and integrated understanding of the discipline knowledge in the Construction Management and Property field, and capable of relating it in its interdisciplinary context.
2. Utilise project information, discipline knowledge and critical thinking skills to make decisions, solve practical problems and address strategic issues in construction management and property field. Capacity to manage international projects as well as local and national projects.
3. Demonstrate initiatives and capability for self-directed learning and continuously updating professional knowledge and skills in the changing environment.
4. Communicate and collaborate effectively with a range of stakeholders to inform, consult and negotiate in the management process.
5. The ability to initiate and embrace changes, and to be enterprising, innovative and creative in the construction management and property field.
6. Demonstrate cultural awareness and a respect for diversity and act in socially just and environmental responsible ways.
7. Act as ethical construction management and property practitioners. Demonstrate professional and personal accountabilities in workplace and community service.

Course Learning Outcomes (CLOs) with Alignment to PLOs and Assessment

CLO #	CLO Statement	PLO #	Related Assessment & Activities
CLO 1	To apply the theory and professional practice of construction project management in real-life construction projects.	1, 2	Online quizzes, tutorial activities, group assignment.
CLO 2	To consolidate the theory and professional practice of construction project management acquired over their Bachelor of Construction Management & Property.	3	Online quizzes, tutorial activities, group assignment.
CLO 3	To develop a holistic Construction Project Management Plan (CPMP).	4, 7	Tutorial activities, group assignment.
CLO 4	To demonstrate their ability to constructively work as part of a construction project management team and improve their interpersonal skills.	4, 6	Presentation and Individual reflective learning report.

3. ASSESSMENT

Assessment Task	Weight	CLOs Assessed	Due Date
1. In-class Online quizzes	20%	1,2,3	Week 5 and Week 10
2. Active learning space tasks	20%	1,2,3	End of each tutorial session
3. Case-based assignment (Individual 10% and Group 30%)	40%	1,2,3,4	Week 10
4. Self-reflective report	10%	1,2,3,4	Week 10
4. Innovation and creativity	10%	1,2,3,4	Week 10

4. WEEKLY COURSE SCHEDULE

Week	Topic	Activity	Related CLO
Week 1	Construction Project Management Practice (Project life cycle, feasibility study, design and value management, complexity in construction)	• Explore lecture notes and complete online Multiple-Choice Question (MCQ) quiz. • Read Assignment Brief and complete Project Charter for a selected Case Project during Active Learning Space activities.	1,2,3,4
Week 2	Construction Project Scope Management	• Explore lecture notes and complete online Multiple-Choice Question (MCQ) quiz. • Create construction project scope management plan in a team during Active Learning Space time.	1,2,3,4

Week 3	Construction Project Schedule Management	• Explore lecture notes and complete online Multiple-Choice Question (MCQ) quiz. • Create construction project schedule management plan in a team during Active Learning Space time.	1,2,3,4
Week 4	Construction Project Cost and Financial Management	• Explore lecture notes and complete online Multiple-Choice Question (MCQ) quiz. • Create construction project cost and financial management plan in a team during Active Learning Space time.	1,2,3,4
Week 5	Construction Project Resource Management	• Explore lecture notes and complete online Multiple-Choice Question (MCQ) quiz. • Create construction project resource management plan including human resources, machinery and equipment resources in a team during Active Learning Space time.	1,2,3
Week 6	Review and Industry Guest Lecturer and In-class Online Quiz 1	• Provide question and discussion sessions with industry representatives will allow students to relate theory to professional practice of building services. • Assess students' participation and learnings in the pre-class activities and in-class lectures via online quiz 1 assess.	1,2,3,4
Week 7	Construction Project Delivery System and Procurement	• Explore lecture notes and complete online Multiple-Choice Question (MCQ) quiz. • Create construction project delivery system and procurement management plan in a team during Active Learning Space time.	1,2,3,4
Week 8	Construction Project Quality, Risk and Safety Management	• Explore lecture notes and complete online Multiple-Choice Question (MCQ) quiz. • Create construction quality, risk and safety management plans in a team during Active Learning Space time.	1,2,3,4
Week 9	Construction Communication and Stakeholder Management	• Explore lecture notes and complete online Multiple-Choice Question (MCQ) quiz. • Create construction project communication and stakeholder management plans in a team during Active Learning Space time.	1,2,3,4
Week 10	Review and Industry Guest Lecturer and In-class Online Quiz 2	• Provide question and discussion sessions with industry representatives will allow students to relate theory to professional practice of building services. • Assess students' participation and learnings in the pre-class activities and in-class lectures via online quiz 2 assess.	1,2,3