



UNSW
SYDNEY

Australia's
Global
University

Built Environment

BLDG2023
Construction Planning



Course Outline – Term 1, 2020

Disclaimer

Information within this document is subject to change. The full and most accurate course outline will be available in Moodle closer to the start of the term in which the course is offered.

1. COURSE STAFF

Course Contact	Dr. Cynthia Wang
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2. COURSE DETAILS

Credit Points	6 units of credit (uoc)
Workload	Approx. 150 hours including class contact hours, weekly individual and group online learning activities, readings, class preparation, and assessment activities.
Teaching Times and Location	Find details in timetable http://www.timetable.unsw.edu.au

Description

This course teaches important skills for construction planning and scheduling, e.g. Bar Chart, Critical Path Method, Overlapping Network Model, Line of Balance, Multiple Activity Chart, etc. with consideration of other related factors in construction projects, like resources and costs. The other two important aspects of construction planning – project control and risk estimation will also be taught in this course. Students will be required to apply their knowledge and skills to produce a comprehensive construction planning document, including detailed project schedule plans by using commercial software.

Aims

1. To understand the importance of planning in construction and that the ability to develop a robust plan is a precursor to implementing a strong schedule;
2. To develop the skills required to assess a project and select the appropriate scheduling techniques to analyse and plan the project;
3. To develop the skills required to read and prepare a critical path schedule;
4. To understand the principles of time related risk and risk analysis; and
5. To understand the importance of planning / schedule controls and how to use those effectively to execute a plan.

Course Learning Outcomes (CLOs)

At the successful completion of this course, you will be able to:

1. Select appropriate planning and scheduling techniques for any specific application in the construction industry and apply them competently on construction projects;
2. Develop comprehensive construction planning documents;
3. Create construction schedule plans manually and using commonly used computer software; and
4. Implement basic project control techniques, and apply the concept of risk management and probability scheduling techniques.

3. ASSESSMENT

Assessment task	Weight	CLOs Assessed
1. Examination – Final Exam	40%	1, 4
2. Lab work – Computer Lab Task	10%	3
3. Test – Online Assessment	20%	1, 4
3. Project – Group Assignment Project	30%	2, 3

4. COURSE IMPROVEMENT AND FEEDBACK

Feedback from students is an integral part of improving courses and teaching approaches. One of the primary mechanisms of feedback is myExperience, which we strongly urge all students to complete at the end of term. Course convenors use the feedback to make ongoing improvements to the course. This is communicated in Moodle in the myFeedback Matters page.