



UNSW
SYDNEY

Australia's
Global
University

Built Environment

BLDG2021

High Rise Building Construction



Course Outline – Term 3, 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. Riza Yosia Sunindijo
Email	r.sunindijo@unsw.edu.au

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 introduces high-rise building functional requirements as well as technologies and processes used in high-rise building construction. Topics covered in this course include foundation systems; typical vertical and horizontal loads on high-rise buildings, structural systems including structural steel construction and reinforced concrete construction; enclosure systems; material handling and construction methods including selection of cranes; and lift systems. Another topic focuses on sustainability features implemented in modern high-rise buildings and the contributions of high-rise buildings in promoting sustainable construction.

Aims

The aims of this course are as follows:

Aim 1: Introduce different systems pertinent in high-rise building construction;

Aim 2: Explain construction processes and technologies relevant to high-rise building development.

Course Learning Outcomes (CLOs)

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

1. Summarise key sub-systems of high-rise buildings that should be identified and managed throughout the building life cycle.
2. Analyse high-rise building systems and determine their suitability in the project context.
3. Use theories to develop solutions to problems related to high-rise building construction.
4. Analyse the suitability of construction equipment and technologies to build high-rise buildings in different contexts.

3. ASSESSMENT

Assessment task	Weight	CLOs Assessed
1. Test - Online Test	40%	1, 2, 3, 4
2. Examination – Online Final Exam	60%	1, 2, 3, 4

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.