



UNSW
SYDNEY

Australia's
Global
University

Built Environment

CONS0025
Infrastructure 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

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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

Increasing Australia's global competitiveness will depend critically on the efficient procurement, finance, delivery and management of effective and high quality social and economic infrastructure. Experts from industry, government and academia will work with students to critically explore best practice from around the world in social and economic infrastructure planning, procurement and finance. Topics to be covered include domestic and international infrastructure markets and challenges; understanding the transformative role of new infrastructure design and delivery to growth, urban consolidation and renewal; the role of government in infrastructure planning and provision; project service definition; business case/ feasibility; financing structures; procurement options and processes; tendering processes; public sector comparator and other ways of assessing value; delivery; commercial principles; risk management and; contract management.

Aims

The aims of this course are:

1. Identify the interdependent roles and responsibilities of the many contributors to successful infrastructure projects over its entire life cycle;
2. Contrast and critique current approaches to infrastructure procurement and finance around the world;
3. Analyse and develop innovative ways to procure and finance new infrastructure projects using best practice knowledge from around the world and apply them in a case study setting;
4. Identify, assess and manage the risks and opportunities at each stage of the infrastructure planning, procurement and finance life-cycle in order to optimise project outcomes for communities and the private sector;
5. Explain the significance of infrastructure provision as a defining function of, and framework to, urban planning activity; and
6. Describe the effect of infrastructure provision on the use, development, management and value of land.

Course Learning Outcomes (CLOs)

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

1. Identify the interdependent roles and responsibilities of the many contributors to successful infrastructure projects over its entire life cycle;

2. Contrast and critique current approaches to infrastructure procurement and finance around the world;
3. Analyse and develop innovative ways to procure and finance new infrastructure projects using best practice knowledge from around the world and apply them in a case study setting;
4. Identify, assess and manage the risks and opportunities at each stage of the infrastructure planning, procurement and finance life-cycle in order to optimise project outcomes for communities and the private sector;
5. Explain the significance of infrastructure provision as a defining function of, and framework to, urban planning activity; and
6. Describe the effect of infrastructure provision on the use, development, management and value of land.

3. ASSESSMENT

Assessment task	Weight	CLOs Assessed
1. Test – Quiz	20%	1, 2, 3, 5, 6
2. Project – Assignment	40%	1, 2, 3, 4, 5, 6
3. Examination – Final Take-Home Exam	40%	1, 2, 3, 4, 5, 6

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.