

# ENGR 4005 ENGINEERING PROJECT

**Credit Points** 20

**Legacy Code** 300483

**Coordinator** Kejun Dong ([https://directory.westernsydney.edu.au/search/name/Kejun Dong/](https://directory.westernsydney.edu.au/search/name/Kejun%20Dong/))

**Description** This is a 20 credit point year-long subject taken over two terms (10 credit points in each term). This subject includes a capstone project which demonstrates student's professional level of identifying, planning, designing, executing, testing and documenting an engineering project or activity.

**School** Eng, Design & Built Env

**Discipline** Other Engineering And Related Technologies

**Student Contribution Band** HECS Band 2 10cp

Check your fees via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 4 subject

**Pre-requisite(s)** ENGR 3021

**Co-requisite(s)** ENGR 3017

**Equivalent Subjects** LGYB 1037 - Civil and Environmental Engineering Project 2

**Incompatible Subjects** LGYA 6084 - Engineering Thesis ENGR 4023 - Advanced Engineering Thesis

## Restrictions

Successful completion of 240 credit points.

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Apply the theoretical knowledge gained during the course to develop practical and innovative engineering solutions.
2. Apply the project management principles to an engineering project.
3. Demonstrate the understanding on the importance of client/end-user consultation and satisfaction and develop engineering communication abilities on good oral presentation and engineering report writing skills.
4. Implement ethical, social, economical and environmental responsibilities of an engineer.
5. Recognise the importance of time and financial management in the context of an engineering project.
6. Understand methods for carrying-out systematic research.

## Subject Content

- development of practical and Innovative solutions to Engineering problems.
- application of Engineering Project management skills.
- client/end-user consultation process and satisfaction assessment and development of good oral and written presentation skills appropriate to An engineer.
- evaluation of social, economical and environmental impacts of An Engineering project.
- application of time and financial management skills.

- development of research skills.

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/ Mandatory Group Task
Progress Report	Approx. 50 Pages Report	15	N	Group
Presentation	30 minutes	15	N	Group
Final Report	Approx. 100 Pages Report	70	N	Group