

# ENGR 4007 ENGINEERING PROJECT 2

**Credit Points** 10

**Legacy Code** 300972

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

**Description** Throughout the semester, the focus will be on development of research and presentation skills of students enrolled in this subject. This will be achieved through employment of appropriate research skills on a capstone project which demonstrates student's professional level of executing, testing and documenting an engineering project and completion of a technical report. This subject is a continuation of 300971 Engineering Project 1.

**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 4006

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

## Restrictions

Students must be enrolled in Bachelor of Engineering, Bachelor of Engineering (Honours) or Bachelor of Engineering Advanced (Honours) and must have successfully completed 200 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 of 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, economic and environmental responsibilities of an engineer;
5. Recognise the importance of time and financial management in the context of an engineering project;
6. Apply systems engineering methods for carrying-out systematic research;
7. Demonstrate an ability to work in a team.

## Subject Content

1. Development of integrated practical and innovative solutions to engineering problems.
2. Application of engineering project management skills.
3. Client/end-user consultation process and satisfaction assessment and development of good oral and written presentation skills appropriate to an engineer.
4. Evaluation of social, economic and environmental impacts of an engineering project.

5. Application of time and financial management skills and risk analysis as well.
6. 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 Revision	30-40 pages.	15	N	Group
Oral Presentation	20 minutes each group, PowerPoint Slides, group work but marked individually	20	N	Group
Final Report	50-70 pages.	65	Y	Group