

# ENGR 7029 ENGINEERING PROJECT 2 (PG)

**Credit Points** 20

**Legacy Code** 301396

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

**Description** This subject is a continuation of subject Engineering Project 1 (PG). Students will further develop their professional skills in engineering design, research, and presentation. This will be achieved through the independent work on the proposed engineering design or research topic under an academic supervisor. Students are required to employ the identified design plan or research methodologies to carry out the proposed design or research work, fulfil the design or research objectives, evaluate and analyse the results, and present the results and findings in an oral presentation, a research paper and a final project report. This subject will demonstrate students' professional level of conducting an engineering project.

**School** Eng, Design & Built Env

**Discipline** Engineering and Related Technologies, Not Elsewhere Classified.

**Student Contribution Band** HECS Band 2 20cp

**Level** Postgraduate Coursework Level 7 subject

**Pre-requisite(s)** ENGR 7028

## Restrictions

Students must be enrolled in a postgraduate program.

## Assumed Knowledge

Knowledge in the relevant field of chosen major.

## Learning Outcomes

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

1. Apply project management principles that incorporate time and financial management to develop practical and innovative engineering solutions.
2. Apply effective written and verbal communication skills tailored to the appropriate audience.
3. Design engineering experiments using a well formulated problem, an appropriate research methodology, data requirements, hypotheses and research questions to achieve objectives.
4. Apply systems engineering methods for carrying-out systematic research.
5. Evaluate research outcomes on a particular field and to the realms of the Engineering professions.

## Subject Content

This subject is about developing an individual engineering design or research under an academic supervisor.

## 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/Group Task
Proposal	6-8 pages (2000-2500 words)	15	N	Individual
Presentation	15 minutes	20	N	Individual
Report	50-80 pages (15000-25000 words including drawings and calculations)	65	Y	Individual

Teaching Periods

## Autumn (2022)

### Parramatta - Victoria Rd

#### Day

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## Spring (2022)

### Parramatta - Victoria Rd

#### Day

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## Autumn (2023)

### Parramatta - Victoria Rd

#### On-site

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