

# ENGR 3013 ENGINEERING SCIENCE PROJECT 1

**Credit Points** 10

**Legacy Code** 300967

**Coordinator** Ee Loon Tan ([https://directory.westernsydney.edu.au/search/name/Ee Loon Tan/](https://directory.westernsydney.edu.au/search/name/Ee%20Loon%20Tan/))

**Description** This subject describes engineering as a profession, including professional ethics, legal obligations and fundamentals and theories related to project management. The focus will be on development of research and presentation skills of students enrolled in this subject. It will be achieved through employment of appropriate research skills on a capstone project which demonstrates student's knowledge in identifying and planning an engineering project.

**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 3 subject

## Restrictions

Students must be enrolled in 3691 Bachelor of Engineering Science, 6033 Diploma in Engineering/Bachelor of Engineering Studies or 7117 Diploma in Engineering/Bachelor of Engineering Studies and must have successfully completed 160 credit points.

## Learning Outcomes

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

1. Annotate and review technical publications;
2. Develop verbal and written communication skills in engineering professionally;
3. Examine Engineering profession and the environment in which these professions operate;
4. Apply the process involved in contract and project management in engineering via a capstone project; and
5. Apply WHS requirements to an engineering project.

## Subject Content

1. Research techniques and technical presentation
2. Technical and environmental risk management
3. Professional management principles and practices
4. Project initiation, tender process and tender analysis
5. Contract management, human resources management and value management

## 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	Mandatory
Proposal	15-20 pages.	35	N	Group	N
Report	30 to 40 pages	65	Y	Group	Y

## Prescribed Texts

- Pinto, JK 2016, Project management : achieving competitive advantage, 4th edn, Pearson, Boston

## Teaching Periods

### Autumn (2025)

#### Penrith (Kingswood)

##### On-site

**Subject Contact** Ee Loon Tan ([https://directory.westernsydney.edu.au/search/name/Ee Loon Tan/](https://directory.westernsydney.edu.au/search/name/Ee%20Loon%20Tan/))

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=ENGR3013\\_25-AUT\\_KW\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENGR3013_25-AUT_KW_1#subjects))

#### Parramatta City - Macquarie St

##### On-site

**Subject Contact** Ee Loon Tan ([https://directory.westernsydney.edu.au/search/name/Ee Loon Tan/](https://directory.westernsydney.edu.au/search/name/Ee%20Loon%20Tan/))

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=ENGR3013\\_25-AUT\\_PC\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENGR3013_25-AUT_PC_1#subjects))

### Sydney City Campus - Term 2 (2025)

#### Sydney City

##### On-site

**Subject Contact** Peter Lendrum ([https://directory.westernsydney.edu.au/search/name/Peter Lendrum/](https://directory.westernsydney.edu.au/search/name/Peter%20Lendrum/))

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=ENGR3013\\_25-SC2\\_SC\\_1#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENGR3013_25-SC2_SC_1#subjects))

### Spring (2025)

#### Penrith (Kingswood)

##### Hybrid

**Subject Contact** Ee Loon Tan ([https://directory.westernsydney.edu.au/search/name/Ee Loon Tan/](https://directory.westernsydney.edu.au/search/name/Ee%20Loon%20Tan/))

View timetable ([https://classregistration.westernsydney.edu.au/odd/timetable/?subject\\_code=ENGR3013\\_25-SPR\\_KW\\_3#subjects](https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=ENGR3013_25-SPR_KW_3#subjects))