

ENGR 3013 ENGINEERING SCIENCE PROJECT 1

Credit Points 10

Legacy Code 300967

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

Description This unit 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 unit. 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 HECS Band contribution amount via the Fees ([https://www.westernsydney.edu.au/currentstudents/current_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/page) 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.

Item	Length	Percent	Threshold	Individual/Group Task
Proposal	15-20 pages.	35	N	Group
Report	30 to 40 pages	65	Y	Group

Prescribed Texts

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

Teaching Periods

Autumn Penrith (Kingswood)

Day

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View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=ENGR3013_22-AUT_KW_D#subjects)

Parramatta - Victoria Rd

Day

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Sydney City Campus - Term 1 Sydney City

Day

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Spring Penrith (Kingswood)

Day

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Sydney City Campus - Term 3 Sydney City

Day

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