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ENGR 7028 ENGINEERING PROJECT 1 (PG)

Credit Points 20

Legacy Code 301395

Coordinator Qi Cheng (https://directory.westernsydney.edu.au/search/ name/Qi Cheng/)

Description This subject introduces the professional engineering skills necessary to practice as an engineer, including project management, professional communication, professional ethics and legal obligations. Students are required to conduct a critical literature survey on a relevant area, identify the design or research problems, propose a plan and methodology for the design or research problems, conduct some preliminary work and analysis, present their work, and complete a project proposal and a project report.

School Eng, Design & Built Env

Discipline Engineering and Related Technologies, Not Elsewhere Classified.

Student Contribution Band HECS Band 2 20cp

Check your fees via the Fees (https://www.westernsydney.edu.au/ currentstudents/current_students/fees/) page.

Level Postgraduate Coursework Level 7 subject

Co-requisite(s) ENGR 7013 - Industrial Experience (PG)

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. Critique previous research in terms of its relevance and contribution to the given topic.
- Manage an engineering project from an environmental perspective, using appropriate contract, project, WHS and risk management processes.
- 3. Evaluate the major steps in the proposed research by developing the research problem, research hypotheses, research questions and a realistic timeline.
- Construct experimental design, using appropriate research methodology, identifying data requirements and conducting relevant research to achieve objectives.
- 5. Apply effective written and verbal communication skills when preparing professional/technical reports.
- Work collaboratively in a team setting on a design-oriented project or research-based project under minimal supervision.

Subject Content

- · Introduction to communication
- Workplace communication
- Technical writing
- Introduction to project management

- · Ethics and professional code of conduct
- Statistical methods
- Peer-assessed oral presentation
- Literature survey
- Research proposal
- Preliminary study

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.

Туре	Length	Percent	Threshold	Individual/ Group Task	Mandatory
Proposal	15-20 pages (5,000-7,50 words)	20 00	Ν	Individual	Y
Report	20-50 pages (7,500-1,50 words including drawings and calculation		Y	Group/ Individual	Υ
Presentatio	orl 5 minutes	s 10	Ν	Group/ Individual	Y
Quiz	1 hour online	20	Ν	Individual	Y

Teaching Periods

Spring (2024) Parramatta City - Macquarie St

On-site

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View timetable (https://classregistration.westernsydney.edu.au/even/ timetable/?subject_code=ENGR7028_24-SPR_PC_1#subjects)

Autumn (2025) Parramatta City - Macquarie St

On-site

Subject Contact Qi Cheng (https://directory.westernsydney.edu.au/ search/name/Qi Cheng/)

View timetable (https://classregistration.westernsydney.edu.au/odd/ timetable/?subject_code=ENGR7028_25-AUT_PC_1#subjects)

Spring (2025) Parramatta City - Macquarie St

On-site

Subject Contact Qi Cheng (https://directory.westernsydney.edu.au/ search/name/Qi Cheng/)

View timetable (https://classregistration.westernsydney.edu.au/odd/ timetable/?subject_code=ENGR7028_25-SPR_PC_1#subjects)