ENGR 7028 ENGINEERING PROJECT 1 (PG)

Credit Points 20

Legacy Code 301395

Coordinator Pan Hu (https://directory.westernsydney.edu.au/search/name/Pan Hu/)

Description This unit 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

Level Postgraduate Coursework Level 7 subject

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.
- 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.

Item	Length	Percent	Threshold	Individual/ Group Task
Proposal	15-20 pages (5,000-7,500 words)	20	N	Individual
Report	20-50 pages (7,500-1,5000 words including drawings and calculations)		Υ	Both (Individual & Group)
Presentation	15 minutes	10	N	Both (Individual & Group)
Quiz	1 hour online	20	N	Individual

Teaching Periods

Autumn

Parramatta - Victoria Rd

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View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=ENGR7028_22-AUT_PS_D#subjects)

Spring

Parramatta - Victoria Rd

Dav

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