

Course Outline

Title: MINING RESEARCH PROJECT 3

Code: ENMIN7093

Faculty / Portfolio: Faculty of Science and Technology

Program Level:

	AQF Level of Program					
	5	6	7	8	9	10
Level						
Introductory						
Intermediate						
Advanced					✓	

Pre-requisites: ENMIN 7092

Co-requisites: Nil

Exclusions: ENCOR 7030

Credit Points: 30

ASCED Code: 030303

Learning Outcomes:

Knowledge:

- K1.** Analyse and examine the concepts underlining engineering research projects
- K2.** Deduce and explain the process of writing up a research thesis to report findings and conclusions
- K3.** Critically evaluate how engineering research projects should be managed

Skills:

- S1.** Present the results of your work in a logical and clear manner to others

Application of knowledge and skills:

- A1.** Analyse and apply design principles at an advanced level to the implementation of a project
- A2.** Submit a thesis with research findings for the examination process

Values and Graduate Attributes:

Values:

- V1.** Form an independent intellectual demeanour befitting an engineering graduate
- V2.** Appreciate the need for adherence to deadlines for completion of work.
- V3.** Appreciate the importance of lifelong learning for the advancement of your career

Graduate Attributes:

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Attribute	Brief Description	Focus
Continuous Learning	The course enhances students` abilities to undertake continuous learning by engaging them in activities which motivate them to combine and apply the knowledge and skills acquired from various courses to a new situation and demonstrate initiative-taking and lateral thinking.	High
Self Reliance	To successfully complete their projects, students will have to be able to acquire new knowledge and modify and harness existing methods for their technical needs. Students are expected to do so under minimum supervision with a high degree of autonomy. This will prepare them to practice the same level of autonomy in a workplace and show initiative-taking and self-reliance.	High
Engaged Citizenship	This will depend on the nature of each individual project. However, it is expected that some projects will reflect on sustainability and environmental issues and other projects will reflect on design and technical codes which feed into OHS and other social matters.	Medium
Social Responsibility	The course promotes ethical and professional conduct by adhering to best practice in acknowledging the sources of knowledge and data in their writing and presentations. Moreover, lab or industry-based effort will have to reflect a high level of professionalism and responsibility.	High

Content:

Topics may include:

- Structuring and drafting of a research thesis
- Findings and conclusions
- Producing a research paper out of the thesis work

Assessment:

Learning Outcomes Assessed	Assessment Task	Assessment Type	Weighting
S1,A1, K3	Update Talk	A short presentation in the early weeks of the semester on the progress which has been achieved thus far in the research project.	5%-10%
A1, A2, K1 - K3, S1	Thesis	Written submission	75% - 85%
S1	Presentations	Presentation of findings to audience	10%-20%

Adopted Reference Style:

Presentation of Academic Work:

[FedUni General Guide to Referencing](#)