

Course Outline

Title: MINING RESEARCH PROJECT 2

Code: ENMIN7092

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 7091

Co-requisites: Nil

Exclusions: ENCOR 7020

Credit Points: 15

ASCED Code: 030303

Learning Outcomes:

Knowledge:

- K1.** Assess the importance of research for engineering development
- K2.** Critically evaluate the characteristics of research problems and the evolution of research process
- K3.** Apply and demonstrate the various dimensions of critical thinking
- K4.** Compare and contrast the research principles and methods applicable to the field of particular engineering research project the student is undertaking

Skills:

- S1.** Perform research, collect and critically review information required for the implementation of a research project
- S2.** Demonstrate practical and theoretical advanced expertise in the project area
- S3.** Analyse and apply research design principles to the implementation of a project
- S4.** Demonstrate advanced technical research skills to justify and interpret theoretical propositions, methodologies and conclusions to specialist (supervisor and examiner) and non-specialist audience (fellow students)
- S5.** Develop and implement time management skills
- S6.** Perform a risk and hazard assessment and management plan if pertinent to the topic under study

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Application of knowledge and skills:

- A1. Perform independent research with high level personal autonomy and accountability
- A2. Apply knowledge and skills learnt from previous courses into an independent research project
- A3. Plan and execute a substantial research-based project with capstone experience and/or piece of scholarship

Values and Graduate Attributes:

Values:

- V1. Enhancement of lifelong learning skills by the application of existing knowledge to the solution of new problems
- V2. Form an independent intellectual demeanour befitting a professional graduate
- V3. Appreciate seriously the importance of communication and a broader approach to Engineering
- V4. Appreciate critically the need for adherence to deadlines for completion of work

Graduate Attributes:

Attribute	Brief Description	Focus
Continuous Learning	The course involves a substantial research element which will equip students with skills required for further learning	High
Self Reliance	The course features theory based problem solving skills motivating self reliance and independence	High
Engaged Citizenship	The course highlights the importance of engaging with the stakeholder groups both within and external to a mine	Medium
Social Responsibility	Corporate Social Responsibility is a critical element ensuring the mining industry's social licence to operate and is a focus within this course.	Medium

Content:

At this stage, students have been already introduced to the main aspects of the research process and working on design projects (picked up in ENMIN 7091). This course is therefore intended to monitor students` progress in the second semester and guide them through the process of writing up and submitting a progress report. The highly individual nature of this stage means that each student will be given advice by the course coordinators and supervisors to suit their need.

Topics may include:

- Assessment Interviews and Project Folder
- Update talk
- Progress report

Assessment:

Learning Outcomes Assessed	Assessment Task	Assessment Type	Weighting
K3,4, S5, 6, A 3	Interviews and project folder	Oral and written submissions	10-20%

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K1-2, S1,3-4, A1-2	Presentation	Oral presentation	20-30%
K2-4, S1, 3-4, A2-3	Progress report	Written submission	50-70%

Adopted Reference Style:

APA

Presentation of Academic Work:

[FedUni General Guide to Referencing](#)