Faculty of Engineering

School of Minerals and Energy Resources Engineering

Postgraduate Course Outline

MINE8445

Mining Industry Project II

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CONTENTS

1.   INFORMATION ABOUT THE

submitted to the Course Authority of MINE8440 a completed copy the Project Plan Agreement (PPA) form by the student that has been signed by the student's Project Supervisor.

2. AIMS, LEARNING OUTCOMES AND GRADUATE ATTRIBUTES

2.1. Course Aims

The course aims to develop the capability and requisite skills of an engineer to build a foundation of knowledge related to a particular industry-related problem. This foundation provides a basis on which to design a solution that is robust and safe, cost effective and research outcomes that are appropriate to the end-user.

2.2. Learning Outcomes

At the conclusion of this course, students should be able to:
1. Define the major issues and benefits associated with a research topic.
2. Conduct library search relevant to the research topic and obtain reference sources from various relevant sources.
3. Produce a literature review encompassing a critique of the current state of knowledge related to the topic and other related information.
4. Develop a project management plan that outlines objectives, definition of tasks, activities and resources needed to achieve that objective, a schedule of activities and significant milestones, and a risk assessment with appropriate management and control measures.
5. Prepare a technical report that is consistent with the requirements and standards of the School of Mining Engineering and relevant professional societies.
2.1.

2.3. Graduate Attributes

This course will contribute to the development of the following Graduate Attributes:
1. appropriate technical knowledge

4. COURSE CONTENT AND LEARNING ACTIVITIES

All assessments (except A04) are due on Monday of the week, unless otherwise indicated in the table below.

Assessment task	Due date	Release date	Weight	Assessment	Learning outcomes assessed
A01	13 Oct	13 Sept	15%	**Presentation** (max. 20 slides) based on research project taken	2,4
A02	15 Nov	13 Sept	70%	**Examiner's copy of thesis (max-15000 words)** including Conference Paper. A series of arguments combined with the description and discussion of research undertaken	2,3,4,5
A03	3 Dec	26 Nov	10%	**Revised Thesis (max- 15000 words)**	2,3,4,5
A04	Ongoing				

6.2. Examiner's Copy of Thesis

Examiner's copy of thesis should be approximately 15,000 words excluding appendices, tables and illustrative matter. The thesis should be ordered; critical and reasoned exposition of knowledge gained through the student's efforts and includes evidence of awareness of the literature.
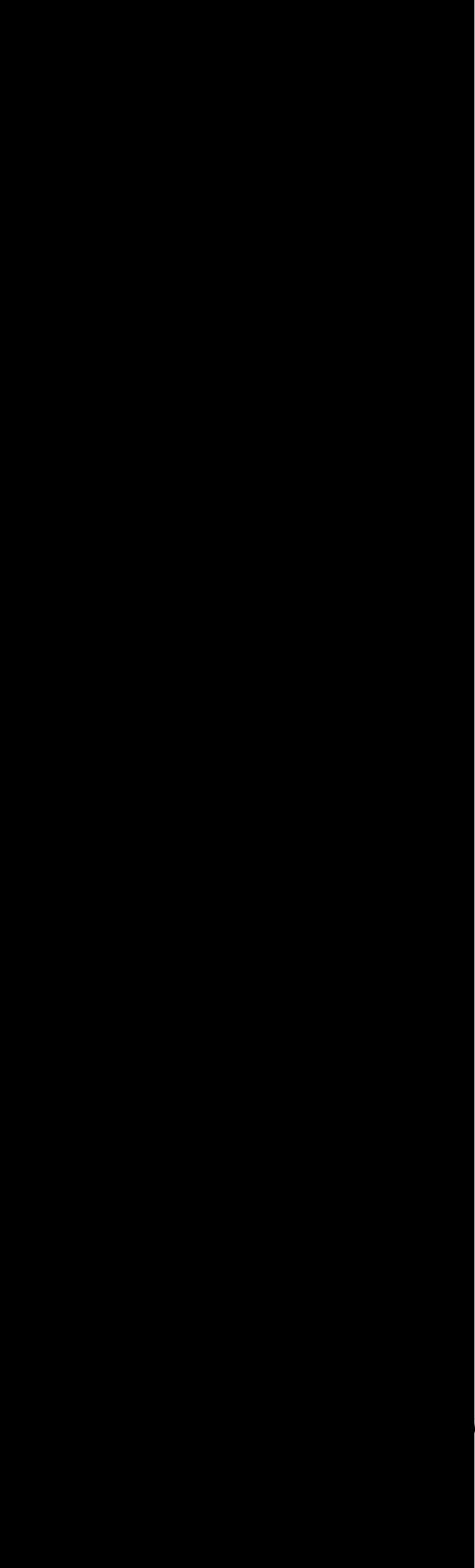
Thesis should be written in the style of conference paper. You need to introduce the thesis, identify what is already known about your topic in the literature, let the reader know what methodology you used, state the results and discuss them, identify the conclusions. A reference list should appear at the end of your report. The report must strictly adhere to AusIMM's Guide to Authors. Information that is not essential to explain findings, but that supports analysis, validates conclusions or pursues a related point should be placed in an appendix.

The assessment criteria that will be used are in the following table:

Table 4 – Examiner's Copy of Thesis Assessment Criteria

Criteria	Excellent	Good	Satisfactory	Unsatisfactory	Poor	nil
Abstract	• Abstract is well written and accurately yet concisely captures all the essential aspects of the project objective, methodology, outcomes and issues	• Abstract is reasonably well written and captures most of the essential elements of the project	• Abstract is adequately written and captures most elements though missing some information	• Abstract is poorly written and does not clearly convey information concerning project topic, method, issues and/or outcomes	• Abstract is badly written and/or does not summarise the project topic and its outcomes	• Abstract is missing and/or largely incomplete
	10　　　　9	8　　　　7	6　　　　5	4　　　　3	2　　　　1	0
Introduction	• Introduction provides a clear definition of the aims and objectives and, scope of project clearly identifies the relevance and significance of the project to the industry	• Introduction provides a good definition of the aims and objectives and scope of project identifies the relevance and significance to industry	• Introduction satisfactorily outlines the aims and objectives and/or provides a reasonable discussion of relevance and significance to industry	• Incomplete and/or unclear definition of project scope	• Project topic and scope are very unclear and/or confused	• Introduction is missing and/or largely incomplete
	5	4	3	2	1	0
Background and methodology/ experimental procedures	• extensive, relevant and logically organised review that critically analysed previous work on the topic and sets the scene for the research to be conducted • presented an excellent description of the research methodology and/or experimental procedure that was used to obtain data	• relevant and logically organised review that critically analysed previous work on the topic and set the scene for the research to be conducted • presented a good description of the research methodology and/or experimental procedure that was used to obtain data	• acceptable coverage of background material with some critical analysis applied that showed basic understanding of the topic • presented an acceptable description of the research methodology and/or experimental procedure that was used to obtain data	• limited coverage of background material that lacked critical analysis. Some flaws in the basic understanding of this material was evident • presented a limited description of the research methodology and/or experimental procedure that was used to obtain data	• extremely limited coverage of background material. A lack of understanding of the material in the topic area was evident • poor description of the research methodology and/or experimental procedure that was used to obtain data	• critique of previous work is missing and/or largely incomplete • methodology and/or experimental procedures missing
	10　　　　9	8　　　　7	6　　　　5	4　　　　3	2　　　　1	0

Criteria	Excellent	Good	Satisfactory	Unsatisfactory	Poor	nil
Results and analysis	• all relevant results are presented in a manner from which meaningful analyses and interpretations are drawn • good and creative approach to analysis of results interpreted against the stated objectives of the research	• most results are presented in a manner from which meaningful analyses and interpretations are drawn • results are interpreted based on established approach relevant to stated objectives of the research	• many results are presented in a manner from which meaningful analyses and interpretations are drawn • results are not			

Criteria	Excellent	Good	Satisfactory	Unsatisfactory	Poor	nil
Referencing	• **all in-text citations were correct** as per the RWG; and • **all sources** of information were **referenced**; and • **all listings in** the References section were **correct** and exactly in total accord with AusIMM referencing requirements as defined in the GTA and RWG; and • there were **no references missing** from the References section	• majority of in-text citations were correct with only a few minor errors; and • majority of sources of information were referenced with only a few minor exceptions; and • most of listings in the References section were correct and in total accord with AusIMM referencing requirements as defined in the GTA and RWG; and • there was only one reference missing from the References section	• most in-text citations were correct though there were several minor errors; and/or some information was not referenced; and • many listings in the References section were correct and in accord with AusIMM referencing requirements as defined in the GTA and RWG with only a few very minor exceptions; and • there were only a few references missing from the References section	• many errors with in-text citations; and/or • limited/poor range of references and/or not relevant to research topic; and/or • too little use of in-text citations and/or • several instances of information not being properly referenced to identify source of information; and/or • many errors in the References section and/or references were not correct and were not in accord with AusIMM referencing requirements as defined in the GTA and RWG; and/or • there were several references missing from the References section	• most in-text citations had errors; and/or • too few references and/or most references were not relevant to research topic; and/or • little use of made of in-text citations to identify source of information and/or only a few references cited in the text to identify source of information; and/or • many instances of information not being properly referenced to identify source of information; and/or • most of the listings in the References section were incorrect and/or were not in accord with AusIMM referencing requirements as defined in the GTA and RWG; and/or • there were many references missing from the References section and/or it was largely incomplete.	• there was no References section and/or • no in-text citation in main body of report of information sources; and/or • incorrect system of citing references was used; and/or • incomplete bibliographic details provided for references; and/or • incorrect system of listing references in the References section; and/or • no details provided for References; and/or • did not conform to AusIMM referencing requirements as defined in the GTA and RWG.

Criteria	Excellent	Good	Satisfactory	Unsatisfactory	Poor	nil
Layout and standard of Paper	• Paper adheres to AusIMM's *Guide to Authors*, with no or few spelling and grammatical errors. References are correctly used and all headings used in the paper are relevant. Figures and Tables are correctly formatted, legible and relevant to the content of the paper	• Paper adheres to AusIMM's *Guide to Authors*, with some spelling and grammatical errors. References are correctly used and all headings used in the paper are relevant. Figures and Tables are correctly formatted, legible and relevant to the content of the paper, but contain minor errors	• Paper adheres to AusIMM's *Guide to Authors*, with spelling and grammatical errors to be corrected. References are used and not all headings used in the paper are relevant. Figures and Tables are correctly formatted, legible and relevant to the content of the paper, but contain some errors	• Paper partially adheres to AusIMM's *Guide to Authors*, with major spelling and grammatical errors to be corrected. Few references are used and many headings used in the paper are not relevant. Figures and Tables contain major errors	• Paper does not adhere to AusIMM's *Guide to Authors*, with major spelling and grammatical errors to be corrected. No references are used and many headings used in the paper are not relevant. Figures and Tables contain major errors	• Unable to read paper
	10 9	8 7	6 5	4 3	2 1	0

7. STUDYING A PG COURSE IN MINING ENGINEERING AT UNSW

8.1. How We Contact You

Course Convenor: _____

Course Code: _____ Course Title:_____

Assignment: _____

Due Date: _____

Student Name: _____ Student ID: _____

ACADEMIC REQUIREMENTS

Before submitting this assignment, the student is advised to review:
- the assessment requirements contained in the briefing document for the assignment;
- the various matters related to assessment in the relevant Course Outline; and
- the *Plagiarism and Academic Integrity* website at < http:/www.lc.unsw.edu.au/plagiarism/pintro.html > to ensure they are familiar with the requirements to provide appropriate acknowledgement of source materials.

If after reviewing this material there is any doubt about assessment requirements, then in the first instance the student should consult with the Course Convenor and then if necessary, with the Director – Undergraduate Studies.

While students are generally encouraged to work with other students to enhance learning, all assignments submitted for assessment must be their entire own work and duly acknowledge the use of other person's work