MMAN9002

MEngSc Project B CONTENTS

		Page
1.	Staff contact details	1
2.	Course details	1
3.	Rationale for inclusion of content and teaching approach	3

MMAN9002 PG THESIS B

COURSE OUTLINE

1. STAFF CONTACT DETAILS

All academic staff together with some senior engineers from industry act as supervisors to the students undertaking PG thesis work. Support is also provided by the workshop and laboratory staff.

Contact details of the Course Coordinator

Associate Professor Tracie Barber
School of Mechanical and Manufacturing Engineering
Electrical Engineering Room 464H
Tel (02) 9385 4081
Email t.barber@unsw.edu.au

It is recommended you email to make a specific appointment if you need to discuss any important issues, particularly if you want to discuss extensions, supervisor issues, etc. Always consult the course Moodle first in case your questions have already been answered, or in the event that others may benefit from reading what you are asking and the response.

Contact details of the Thesis Administrator

Contact Sharon Casey (mech@unsw.edu.au)
relating to your enrolment, progress, or other (e)-3(red)TBTT1 o1 227.93 6f1 0 0 1 3-3(c>B(red)TBTT

week), or 40 hours per week, for an average student aiming for a credit grade. Various factors, such as your own ability, your target grade, etc., will influence the time needed in your case.

Some students spend much more than 40 h/w, but you should aim for not less than 40 h/w on coursework for 24 UoC.

This means that you should aim to spend not less than about 10 h/w on this course, including consultation with supervisor and workshop/laboratory staff and library/internet search. However, most students spend more time on their thesis work.

Parallel teaching

There is no parallel teaching in this course.

Summary of the course

PG Thesis is usually completed in two consecutive semesters during the last academic year. This is the only course where the students have complete freedom to work on his/her chosen thesis projects from the initiation to the end the project contains a large amount of original research and/or novel design work or analysis. It is not the responsibility of the supervisor to tell the student what to do, nor should it be assumed that the supervisor is an expert in all areas of engineering. They are there to offer guidance and advice, as are laboratory staff, workshop staff, and others in the school that may have expertise in the area of your project. The successful execution of the project is solely the responsibility of the student.

Aims of the course

Thesis B is to be taken in the last semester required for the completi0(h)-5(a-3(CID 16( )]TJ EMC .3

Before you start work in a laboratory or undertake any activity which might be considered hazardous in any way, you must read and understand the practices and

Workshop

All student activities requiring manufacture in the Workshop should be discussed with the Workshop personnel at the inception of the work. The Workshop personnel must have the opportunity to advise and influence the design to help minimise assembly, manufacture or functional problems.

The Workshop is usually in high demand. If you require the Workshop to manufacture equipment essential to your thesis, then make sure that you discuss your requirements as early as possible with the Workshop/Laboratory Manager. You should provide engineering drawings which are first approved by the laboratory officer-in-charge. You should make every effort to minimise the Workshop load by modifying existing equipment rather than building from new, and by keeping your designs simple.

Safety Training

A full list of safety training requirements for PG Thesis students is available on the Safety in any project is paramount and it is mandatory to complete risk paperwork for all activities. Always discuss with your supervisor what your plans are and what risk assessments will be required.

Student Learning Outcomes

You will be able to plan a major engineering project and see it to completion.
You will learn how to collect and synthesise relevant information for the project.
Learn project-specific skills such as how to design novel hardware and/or software to be used in the project.
You will learn to communicate with others involved in the project, including professional-level discussions with your supervisor, workshop staff, and others helping you.

led, professional-standard technical document

Graduate attributes

https://my.unsw.edu.au/student/atoz/GraduateAttributes.html

UNSW aspires to develop graduates who are rigorous scholars, capable of leadership and professional practice in a global community. The university has, thus, articulated the following Graduate Attributes as desired learning outcomes for ALL UNSW students.

UNSW graduates will be

1. Scholars who are:
   (a) understanding of their discipline in its interdisciplinary context
   (b) capable of independent and collaborative enquiry

CONFIDENTIAL THESES

If your thesis contains confidential information, in order to restrict it from viewing for two years you must complete a Confidentiality Form, available from the Moodle Site, and submit this statement with your thesis. Confidential theses should not be uploaded to the database but should be submitted in all other required formats. Discuss submission with the Thesis Coordinator.

PRODUCTION AND SUBMISSION SPECIFICATIONS

All PG thesis students are required to submit copies of their thesis in the formats shown below. Students who do not submit as required will be denied graduation until the requirements have been met.

A. Two spiral-bound copies
This copy will be returned to the author. The sp
initials and family name (a label is sufficient). Students may collect a copy from their supervisor after the results have been released. Copies not collected by the end of Week 1 in the following semester may be destroyed.

Your submission on Moodle indicates that the thesis is entirely your own original work, which is a binding statement.

B. One PDF copy through Moodle
You MUST submit a PDF copy through the Thesis B Moodle page. Name this file

The submitted file should be less than 20mb if you feel that your work would benefit from a larger, higher-res version, please submit this directly to your supervisor. The electronic version must have the copyright declaration included in it, as a scanned version of the signed original, though by your submission you will also agree that the work is all your own.

C. Data
Your thesis mark will not be released until you have organised to pass on your thesis data to your supervisor. This can be dropbox, USB stick, hard drive discuss with your supervisor. However it is now a legal requirement of research conducted at UNSW that the original data be archived, and so you must collate all the work that went into your thesis (drawings, excel files, CAD files, CFD/FEA result files, etc. everything that went into creating your thesis, but not early work or dead-ends that did not make the cut). Your supervisor will mark this task complete on Moodle.

D. One PDF copy uplo
After approval, the Adobe PDF copy will be made available online to UNSW staff and Thesis Database. The file you upload should have the same filename as that on your disc, i.e. z1234567_Thesis. Make sure the file is not password protected.

Instructions for how to upload the theses to the database will be provided through the Thesis B Moodle site.

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author, the degree for which the thesis is submitted, and the year in which the thesis is submitted.

All quoted sources must be clearly referenced either at the end of the thesis with a key or on the page quoted.

3. RATIONALE FOR INCLUSION OF CONTENT AND TEACHING APPROACH

How the course relates to other course offerings and overall program(s) in the discipline

PG Thesis work is unique in the sense that it relates to what has been learnt in the entire degree program. The School also encourages projects from industry, in which case one person from the industry acts as a co-supervisor.

Learning and teaching philosophy underpinning the course (drawing on the UNSW Guidelines on Learning that Inform Teaching at UNSW where appropriate)

Effective learning is supported when you are actively engaged in the learning process and by a climate of enquiry, and these are both achieved by regularly meeting your supervisor and other staff members. Activities that are interesting and challenging, but which also create opportunities for you to have fun, can enhance the learning experience.

You become more engaged in the learning process if you can see the relevance of your studies to professional, disciplinary and/or personal contexts, and the relevance is found in all parts of thesis work.

4. TEACHING STRATEGIES

The teaching strategies used in the course and the ways they support student learning outcomes

There is no formal teaching but the students learn from both internal and external sources. The supervisor, other academics and laboratory/workshop staff are the internal sources, whereas the Library, internet and industry mentors are the external sources.

5. ASSESSMENT

It is your responsibility to keep your project details (supervision, title, working abstract) up to date

The thesis is marked by two independent examiners, usually the supervisor as an assessor and a second marker who may not be familiar with the work and can therefore assess in a more independent, objective fashion. In case of disagreement between the assessor and the moderator, a third examiner may be nominated.

There are three broad aspects of the thesis which are taken into account when assessing its quality:

Organisation how well you organised the project.
Quality the quality of the content of the thesis.
Presentation how well you present the material.

The full marking scheme given to assessors is available to students through the Moodle page.

Other tasks (which are mandatory but not marked) will be detailed on Moodle, and include keeping your project and supervision details up to date on Moodle, and obtaining a lab cleanup certificate upon completion of your work.

Deadlines are vital in all engineering activities and this is reflected in the marking system.

Late submission, even by 1 minute, will automatically mean a deduction of 10 marks from that which would have been your original award, but you will not fail if the thesis was otherwise of sufficient standard.

Up to 2 weeks after submission due date:

Deduction of marks at the fixed rate of 2 marks per day or part thereof (may include weekends), but you will not fail if the thesis was otherwise of sufficient standard.

Beyond 2 weeks but not exceeding 6 weeks late after submission due date:

Grade limited to 'Pass' if the thesis was otherwise of sufficient standard.

Beyond 6 weeks late after submission due date:

Circumstances Beyond Your Control

If you feel that a submission delay in your thesis is beyond your control, then you should contact the PG Thesis Co-ordinator in the first instance. Please discuss with your supervisor first.

The procedure is briefly outlined below.

1. Requests for consideration of circumstances should be submitted by the end of Week 9.
2. Requests should be submitted to the Thesis Coordinator using the official Thesis Extension Request form which must be sighted and signed by the supervisor.
3. Requests based on personal/medical claims may also be submitted at the same time to the UNSW system for Special Consideration on the recommendation of