



UNSW
AUSTRALIA

Course Outline

Semester 1 2016

Never Stand Still

Engineering

Mechanical and Manufacturing Engineering

MMAN4010

THESIS A

Contents

1. Staff Contact Details	2
2. Course details	2
3. Teaching strategies.....	5
4. Course schedule	5
5. Assessment	5
6. Expected Resources for students.....	6
7. Course evaluation and development	7
8. Academic honesty and plagiarism.....	7
9. Administrative Matters.....	Error! Bookmark not defined.
Appendix A: Engineers Australia (EA) Professional Engineer Competency Standards.....	9

1. Staff Contact Details

All academic staff together with some senior engineers from industry act as supervisors to the students undertaking BE 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
Ainsworth Building 401A
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 Kane directly, cc'ing Tracie, if you have issues relating to your enrolment, progress, or other administrative queries of a technical nature.

Mr Kane Murdoch School of Mechanical and Manufacturing Engineering
Student Services Office Tel (02) 9385 4154
kane.murdoch@unsw.edu.au

2. Course details

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.

Contact Hours

There are no set contact hours for this course.

Summary of the course

BE 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 A is to be taken in the second last semester required for the completion of all requirements for the award of the degree. This course, together with MMAN4020 Thesis B, which is to be taken in the following semester, requires each student to demonstrate managerial, technical and professional skills in planning and executing an approved engineering project within a stipulated time limit. Each student is guided by a supervisor, but successfully planning, executing and reporting on the project are the sole responsibility of each student.

Laboratory Staff

The laboratories are the responsibility of the staff-in-charge and you must operate within the accepted practices of the laboratory concerned. You should not expect laboratory staff to take responsibility for your thesis or carry out work for you. The laboratory staff are highly skilled and helpful; take full advantage of their experience.

If your project involves laboratory work, contact the officer-in-charge (OIC) of the laboratory in which you will be working as soon as possible to discuss your requirements. They will issue you with a Laboratory Access Approval (LAA) form which you must complete and return to the OIC.

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 procedures described in the OHS section of the School's intranet

Workshop

3. Teaching strategies

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.

4. Course schedule

There are no set lectures for this course.

5. Assessment

The final grade for Thesis A will be made from:

Thesis A Progress report	80%
Thesis A presentation	20%

For calculation of Honours, Thesis A is worth 25% and Thesis B is worth 75% of the total 12 unit course credit.

It is your responsibility to keep your project details (supervision, title, working abstract) up to date in the “your project details” section of Moodle. If you do not have information in here or the supervisor name is incorrect, your progress report will not get assigned for marking.

Progress Report due Monday Week 13, 4pm.

Please submit your Progress Report electronically, directly through the portal which will be made available on Thesis A Moodle.

The supervisor will assess the report and grade the work; in order to progress to MMAN4020 Thesis B the grade must be greater than 50% as a course total. The supervisor will provide feedback on the student’s progress, and may ask for additional material (i.e. expanded literature

Please provide a rough estimate of the student's performance to date (note: student must be marked satisfactory or higher to progress to Thesis B. There are no actual marks associated with these levels for Thesis A – only satisfactory or unsatisfactory will be awarded):

- o Outstanding (i.e. high distinction potential)
- o Good (credit or distinction standard)
- o Satisfactory (pass)
- o Unsatisfactory (please provide details)

If you Fail in Thesis A, you must re-enrol in Thesis A again.

If you Fail in Thesis B, you have two options:

re-enrol for Thesis A & B again with a new project and supervisor

re-enrol for Thesis B again with the same project (needs consent of an appropriate supervisor & student)

Late Procedure

In all cases, applications for late submission can be applied for before the due date. This is at the discretion of the thesis coordinator, but should only be granted in exceptional circumstances. As per normal, students can also apply through myUNSW for special consideration.

For all other components beside thesis document – zero (0) mark is awarded

For thesis document – 5 marks off the thesis for every day late. Penalty applies until the marks for the course decrease to 50, and further lateness does not result in

7. Course evaluation and development

Further information on School policy and procedures in the event of plagiarism is available on the [intranet](#).

9. Administrative Matters

All students are expected to read and be familiar with School guidelines and policies, available on the intranet. In particular, students should be familiar with the following:

[Attendance, Participation and Class Etiquette](#)

[UNSW Email Address](#)

[Computing Facilities](#)

[Assessment Matters](#) (including guidelines for assignments, exams and special consideration)

[Academic Honesty and Plagiarism](#)

[Student Equity and Disabilities Unit](#)

[Health and Safety](#)

[Student Support Services](#)

*A/Prof. Tracie Barber
February 2016*

