



Mechanical and Manufacturing Engineering

# Course Outline

Semester 2 2018

**MMAN4010**

**THESIS A**

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# 1. Staff contact

## 3. Course details

### Credit Points

This is a 6 unit-of-credit (UoC) course and involves an unprescribed number of contact hours per week (h/w) with your supervisor. This varies on a case-by-case basis, as agreed with your supervisor.

The UNSW website states “The normal workload expectations of a student are approximately 25 hours per semester for each UoC, including class contact hours, other learning activities, preparation and time spent on all assessable work. Thus, for a full-time enrolled student, the normal workload, averaged across the 16 weeks of teaching, study and examination periods, is about 37.5 hours per week.”

Thesis differs. Various factors, such as your own ability, your target grade, etc., will influence the time needed in your case.

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 thesis.

### Summary and Aims of the course

BE Thesis is usually completed in two consecutive semesters during the last academic year.

This is the only course where the student has complete freedom to work on his/her chosen thesis project from the initiation to the end – the project

## **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:

<https://eng-intranet.unsw.edu.au/mech-engineering/whs/SitePages/Home.aspx>

## **Workshop**

All student activities requiring manufacture in the Mechanical and Map28 Tg mal1(s)-1.7(tar)0.7(tHeu.1(ksho

After successfully completing this course, you should be able to:

<b>Learning Outcome</b>		<b>EA Stage 1 Competencies</b>
1.	Develop a design or a process or investigate a hypothesis following industry and professional engineering standards.	PE2.1, PE2.2, PE2.3, PE2.4
2.	Critically reflect on a specialist body of knowledge related to their thesis topic.	PE1.3
3.	Apply scientific and engineering methods to solve an engineering problem.	PE2.1
4.	Analyse data objectively using quantitative and mathematical methods.	PE1.2, PE2.1, P2.2
5.	Demonstrate oral and written communication in professional and lay domains.	PE3.2

## 4. Teaching strategies

You are required to provide the final details (title, supervisor, abstract) of your project on Moodle before **Friday 5pm, Week 12**. Failure to do so will incur late penalties, as your report will not be allocated for marking.

### **Progress Report: due Monday Week 13, 5pm**

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 review). It is up to you to discuss with your supervisor the exact content of the report, but ideally it should be based on the template that will be made available on Moodle.

### **Thesis A progress (interim) report marking rubrics** **Criteria 1: Reviewing the work of others (30%)**

<b>Grade</b>	<b>Mark</b>	<b>Brief description</b>	<b>Explanation/Examples</b>
Fail	0 – 14	Deficient	Deficient work may be characterised by a number of features, including inappropriate reliance on sources not peer reviewed (such as the internet), not reviewing what should be the core of the literature in a particular area, or not reviewing any recent

**Criteria 2: Articulating a research question, plan and thesis outline (20%)**

<b>Grade</b>	<b>Mark</b>	<b>Brief description</b>	<b>Explanation/Examples</b>
Fail	0 – 9	Broad context missing.	The research question is not explained, and there is no clear demonstration of student understanding. Research plan is not present, or does not have sufficient detail to demonstrate they can successfully complete a thesis project. No thesis outline is presented (i.e., thesis chapter headings). Research question and plan are presented, but 7(i)-1dsiJ (es)-3 4
Pass	10 – 12	Broad context present. No specific plan.	



**Grade**

**Mark**

**Brief  
description**

<b>Criteria</b>	<b>Grade</b>
Was proper background information on the topic given?	/5
Was the material selected for presentation appropriate to the topic?	/5
Was enough essential information given to allow the audience to effectively evaluate the work done in context?	/5
Was the talk free of irrelevant or filler information?	/5
Did the presenter demonstrate a clear understanding of the material presented?	

The late penalty is applied per calendar

sufficient time for research, drafting and the proper referencing of sources in preparing all assessment tasks.

If plagiarism is found in your work when you are in first year, your lecturer will offer you assistance to improve your academic skills. They may ask you to look at some online resources, attend the Learning Centre, or sometimes resubmit your work with the problem fixed. However more serious instances in first year, such as stealing another student's work or paying someone to do your work, may be investigated under the Student Misconduct Procedures.

Repeated plagiarism (even in first year), plagiarism after first year, or serious instances, may also be investigated under the Student Misconduct Procedures. The penalties under the procedures can include a reduction in marks, failing a course or for the most serious matters (like plagiarism in an honours thesis) even suspension from the university. The Student Misconduct Procedures are available here:

[www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf](http://www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf)

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

## 10. Administrative matters and links

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:

- x [Attendance, Participation and Class Etiquette](#)
- x [UNSW Email Address](#)
- x [Computing Facilities](#)
- x [Assessment Matters](#)

## Appendix A: Engineers Australia (EA)