



UNSW
AUSTRALIA

Course

Start 2016

Never Stand Still

Engineering

Mechanical and Manufacturing Engineering

MMAN4010

THESIS A

1. Contact

Contact details and consultation times for course convenor

Name: Dr Ron Chan
Office location: Ainsworth (J17) 507
Tel: (02) 9385 1535
Email: r.chan@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

Name: Mr Kane Murdoch
Office location: Ainsworth (J17) Level 1, Student Services Office
Tel: (02) 9385 4154
Email: kane.murdoch@unsw.edu.au

Contact Kane directly, cc'ing Ron, if you have issues relating to your enrolment, progress, or other administrative queries of a technical nature.

2. Credit

Credit Points

This is a 6 unit-of-credit (UoC) course, and involves Zero hours per week (h/w) of face-to-face contact.

It is essential that you consult the Moodle site for the most up-to-date and detailed information relating to the thesis. All announcements regarding the course will be made through Moodle.

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.”

This means that you should aim to spend about 9 h/w on this course. The additional time should be spent in making sure that you understand the lecture material, completing the set assignments, further reading, and revising for any examinations.

There is no parallel teaching for this course.

Contact hours

There are no set contact hours for this course.

Summary of the course

UG 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

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

4. C r b d

There are no set lectures for this course, but a number of workshops will be provided to assist students to complete their thesis to a high standard. The date and time of the workshops will be announced on Moodle and by email. All workshops will be recorded and made available to students on Moodle.

5. A t0

Thesis A progress (interim) report marking rubrics:

Criteria 1: Reviewing the work of others (30%)

Grade	Mark	Brief description	Explanation/Examples
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 an.

Credit

13 – 15

Broad context present.
Specific logical plan.

Research question and plan are presented, and include some detail. There is enough of a plan to believe that the research

Did the presenter have a solid plan in place for completing their project?	/5
as the presenter thought about possible delays/problems that may arise?	/5
Did answers to questions show an understanding of the project and background?	/5

For details of applying for special consideration and conditions for the award of supplementary assessment, see the School [intranet](#), and the information on UNSW's [Special Consideration page](#).

6. E t0 dr r c r t0 d t0

No prescribed textbook.

Content on the Moodle page will be updated often with tips ,discussions and resources, so you are strongly advised to make sure you are able to receive updates.

Students may find other resources on their particular project at the UNSW library:

[http://info.library.o/MCID 1\(a\)2d15\(r\)-6\(y\)8.9. libr/P <au/\(l\)2.w1.9\(\)jb/\(l\)2.-6\(a\)1 Tw 24.v\(d r\)-5.9\(o\)10.5\(\)JTJ](http://info.library.o/MCID 1(a)2d15(r)-6(y)8.9. libr/P <au/(l)2.w1.9()jb/(l)2.-6(a)1 Tw 24.v(d r)-5.9(o)10.5()JTJ)

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

A d A: E r A tOa a (EA) SO 1C tO c r
 R a E r

	Program Intended Learning Outcomes
PE1: Knowledge and Skill Base	PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals
	PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
	PE1.3 In-depth understanding of specialist bodies of knowledge
	PE1.4 Discernment of knowledge development and research directions
	PE1.5 Knowledge of engineering design practice
	PE1.6 Understanding of scope, principles, norms, accountabilities of sustainable engineering practice
PE2: Engineering Application Ability	