



**MMAN9002**

**MEngSc Project B**

# Contents

1. Staff Contact Details .....	2
2. Course details .....	2
3. Teaching strategies.....	7
4. Course schedule .....	7
5. Assessment .....	7
6. Expected Resources for students.....	

## 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

Dr Danielle Moreau  
School of Mechanical and Manufacturing Engineering  
Mechanical Engineering Room 408E  
Tel (02) 9385 5428  
Email [d.moreau@unsw.edu.au](mailto:d.moreau@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 if you have issues relating to your enrolment, progress, or other administrative queries of a technical nature.

Kane's preferred method of communication is via forum posts on the course Moodle.

Mr Kane Murdoch      School of Mechanical and Manufacturing Engineering  
General Office      Tel (02) 9385 4154  
[kane.murdoch@unsw.edu.au](mailto:kane.murdoch@unsw.edu.au)

## 2. Course details

### Units of credit

This is a 6 unit-of-credit (UoC) course, but there are no prescribed contact hours per week other than what you have arranged with your supervisor.

**It is essential that you consult the Moodle site for the m-36nys45k 0 0 1 Z.024 29 0 1 Z.024 Tm 0 Tc[]**

However, in this course you have no class contact hours and no assessable work other than your thesis submission.

For a standard 24 UoC in the semester, this means 600 hours, spread over an effective 15 weeks of the semester (thirteen weeks plus stuvac plus one effective exam 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.

### **Contact Hours**

There are no set contact hours for 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 completion of all requirements for the award of the degree, i.e. in the semester immediately following that in which MMAN9001 Thesis A is taken. This course, together with MMAN9001 Thesis A, requires each student to demonstrate managerial, technical and professional skills in planning, executing and reporting on an approved engineering project within a stipulated time limit. Each student is also required to report on their project work at a thesis conference. The project, on which each student works, will be a direct continuation of the project on which that student worked in MMAN9001 Thesis A. Each student is guided by a supervisor, but successfully completing the project, writing the thesis and submitting two hard copies together uploading a PDF file by specified deadlines 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 website.

## **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 School's website. 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.

## **Thesis Submission**

The quality of the presented work is very important and great care must be taken with the typing and presentation of graphs and diagrams; drawings should be to standard engineering practice. Drawings submitted to the Workshop must be approved by the officer-in-charge of the relevant laboratory. The English should be clear and grammatically correct with a high standard of spelling and punctuation.

There is no strict minimum length for a thesis, nor is there a maximum length. We impose a soft limit of 100 pages and strongly recommend you aim for this. Appendices must be brief

and should contain only material which is indispensable but at the same time cannot be included in the text.

## **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 School's PG Thesis 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 spine should be labelled with the author's initials and family name (a label is sufficient). Students may collect a copy from their supervisor after the MMAN9002 Thesis B 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 'z1234567\_Thesis', with '1234567' being your student ID number.

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 uploaded to the School's online database

After approval, the Adobe PDF copy will be made available online to UNSW staff and students through the School's PG 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.

### **Specifications for Thesis**

Paper must be ISO size A4 (210 x 297mm).

Typing must be 1.5 to double-spaced and may be double sided only if the paper is of sufficient quality that the other side is not showing through and interfering with the readability of the text. All text should be size 11 or 12 font Times New Roman or close equivalent serif font, apart from titles and figures.

Margins must be not less than 30 mm at the left and right edge (before binding), 30 mm at the upper edge, and 20 mm at the lower edge.

The thesis must include a title sheet headed:

UNSW AUSTRALIA

SCHOOL OF MECHANICAL AND MANUFACTURING ENGINEERING

(The above are not to be abbreviated. Do not insert the UNSW crest — this is not an official UNSW publication, and so is not entitled to use the crest.)

Title of Thesis

Name of Author

Student ID

Bachelor of Engineering (or other degree for which the thesis is submitted)

Date of submission (Month and Year)

Supervisor's name

All sheets must be numbered. The main body of the thesis must be numbered consecutively from beginning to end in Arabic numerals. The preliminary pages (Abstract, List of Contents, List of Figures, List of Symbo(i)15(f)





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.

**Thesis hard copies and electronic copies due Monday week 13, 5pm.**

Please submit your 2 hard copies in person to the General Office, and your PDF copy through the Moodle Thesis B submission portal.

If you Fail in Thesis B, you have three 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 appropriate1>> BD3(j)-5(ect)





	<b>Program Intended Learning Outcomes</b>
<b>PE1: Knowledge and Skill Base</b>	PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals