Mechanical and Manufacturing Engineering

Course Outline

Term 2 2020

MMAN4951

Research Thesis A

Contents

1. Staff contact details

Academic staff, sometimes together with some senior engineers from industry, act as supervisors to students undertaking Thesis work. Support is also provided by the workshop and laboratory staff. For any project-related issues, contact your thesis supervisor directly.

Contact details and consultation times for course convenor

Name: Professor Tracie Barber
Office location: Ainsworth building (J17)
Tel: (02) 9385 4081
Email: t.barber@unsw.edu.au (email is the easiest way to contact me)

Please consult the course Teams site first in case your questions have already been answered by information available online.

2. Important links

- Lab Access
- Health and Safety
- Computing Facilities
- Student Resources
- Course Outlines
- Engineering Student Support Services Centre
- Makerspace
- UNSW Timetable

outstanding ability to progress. Moreover, it requires a prerequisite waiver to waive the Thesis B requirement for Thesis C.

Laboratory Activities and Staff

COVID-19 NOTE: The School laboratory facilities are open to research thesis students in T2; however, access is limited. To comply with government's social distancing requirements, e.g., 4 square meters per person, each room has a maximum capacity limit, which will be monitored by the supervising professional staff. Please check with the laboratory officer in your area before accessing and observe the limit and all other safety precautions.

You must seek guidance and approval from your Thesis supervisor prior to any laboratory activities.

The laboratories are the responsibility of the staff

Student learning outcomes

This course is designed to address the learning outcomes below and the corresponding Engineers Australia Stage 1 Competency Standards for Professional Engineers as shown. The full list of Stage 1 Competency Standards may be found in Appendix A.

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

Learning Outcome		**EA Stage 1 Competencies**
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

Criterion 1: Literature Review

Grade	Mark	Brief description	Longer explanation / examples
Fail	0-49%	Deficient	Deficient work may be characterized by a number of

Criterion 3: Project Dependent Preparations

Grade	Mark	Brief description	Longer explanation / examples
Fail	0-49%	Insufficient preparations	The report does not provide evidence of the student having undertaken: Sufficient training and upskilling in the subject, techniques, software and/or equipment use which is required by the Project Sufficient preparations for Insufficient

Criterion 4: Document Presentation

Grade	Mark	Brief description	Longer explanation / examples
Fail	0-49%	Impedes document reading	Presentation is poor to the extent that it impedes reading of the document. Examples include multiple inconsistent citation styles or incomplete citations, unintelligible grammar, figures or tables not labelled or badly inconsistent document formatting.
Pass	50-64%	Poor formatting / document structure	Document is not at a professional level. Although figures and diagrams are labelled and references in text match reference list (and vice versa), formatting is unclear and inconsistent to the extent that the reader can lose track of the context when reading.

consideration, please see the Special Consideration page.

Other applications for extension of submission of thesis reports (e.g. equipment breakdown, etc.) must comply with the following:

1. The request for extension must come from the supervisor. That is, it is written by, and justified, by the supervisor.
2.

visit: student.unsw.edu.au/plagiarism. The Learning Centre assists students with understanding academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow 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

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:

[illegible] (EA) Competencies

Stage 1 Competencies for Professional Engineers

Program Intended Learning Outcomes