



Mechanical and Manufacturing Engineering

Source Outline
Term 2 2020

MMAN4020

THESIS B (PRACTICE)

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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.

Contact hours

<u>Day</u>	Time	Week	Delivery Mode	For Group:
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The group project is to be completed in two consecutive trimesters during the last academic year before graduation. It is not the responsibility of the course coordinator or Mentors to tell the student what to do, nor should it be assumed that your Mentor is an expert in all areas of engineering. Your Mentor is there to offer guidance and advice, as may other staff in the School if agreeable and available (you should always seek an online appointment by prior arrangement), who may have expertise in the area of your project. The successful execution of the project is solely the responsibility of the student.

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.	Conduct independent research and apply established theories to address an engineering problem that does not have a well-defined solution.	PE2.1, 2.3, 2.4, 3.3
2.	Analyse critically, reflect on and synthesise complex information, problems, concepts and theories.	PE2.1, 2.3, 2.4
3.	Interpret and transmit knowledge, skills and ideas to specialist and non-specialist audiences.	

5.

Students must organise to enrol in the same tutorial as their group members from MMAN4010.

Week	Expected Task Completion: Upload minutes to your Teams Channel weekly. Deliverables are tasks that must be completed and are assessable.
Week 1	<p>Re-establish contact with your group on Teams Reconvene with your course convenor and Mentor on Teams Deliverable: Minutes posted to Teams Group Channel</p>
Week 2	<p>Deliverable: Revisit your individual and Group strategies and methodologies in response to the Project Brief. Reapprove or modify. Had one group meeting <u>with your Mentor on Teams.</u></p> <ul style="list-style-type: none"> o Deliverable: Produce group meeting minutes and post to your Teams Group Channel
Week 3	<p>Had <u>at least</u> one group meeting on Teams to work on:</p> <ul style="list-style-type: none"> o Deliverable: Draft an updated Practice Thesis B project task timeline (Gantt) and post to Teams. o Deliverable: Produce minutes (can contain all Week 3 deliverables) and post to Teams
Week 4 (Census date 28 June 2020)	<p>Each group member to provide a brief verbal report on Teams on their area of Portfolio responsibility. Areas to be covered must include:</p> <ul style="list-style-type: none"> Time management – individual portfolio Gantt would be advisable. Resources required to complete the project, if applicable. Any issue with group members' performance: attendance, communication, effort, etc.
Week 5	<p>Regular weekly group meeting: "Free hand" - your group to determine the agenda, demonstrating your initiative and management skills. Deliverable: Minutes posted to Teams</p>
Week 6	<p>Had one group meeting <u>with your Mentor on Teams</u> Deliverable: Minutes to Teams.</p>
Week 7	<p>Regular weekly group meeting: "Free hand" - your group to determine the agenda, demonstrating your initiative and management skills. Deliverable: Minutes posted to Teams</p>
Week 8	<p>Had at least one group meeting and one with your Mentor on Teams to</p>

6. Assessment

Assessment overview

Assessment	Group Project?	If Group, # Students per group	Length
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Acknowledging the work of others

All quoted sources must be clearly referenced in a Bibliography at the end of all written work using a **single referencing system** (e.g. <https://student.unsw.edu.au/apa>). In-text citation and referencing of all figures, tables and diagrams etc. that are taken from other works must be undertaken in full compliance with the chosen single refere

integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. *Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.*

Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. UNSW has produced a website with a wealth of resources to support students to understand and avoid plagiarism, 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 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

10. Administrative matters and links

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

[Attendance](#)

[UNSW Email Address](#)

[Special Consideration](#)

[Exams](#)

[Approved Calculators](#)

[Academic Honesty and Plagiarism](#)

[Equitable Learning Services](#)

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Competencies

Stage 1 Competencies for Professional Engineers

	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