Mechanical and Manufacturing Engineering

Course Outline

Term 2 2019

1. Staff contact details

Contact details and consultation times for course convenor

Name: Mr. D. Lyons CEng FRINA MIEAust GCULT
Office location: Ainsworth Building J17 208D
Tel: (02) 9385 6120
Email: david.lyons@unsw.edu.au
Moodle: https://moodle.telt.unsw.edu.au/course/view.php?id=41782

Consultation time concerning this course:
Face-to-face: Please **email** the course convenor first, to confirm his availability.
By email: At any time.

Contact details and consultation times for additional lecturers/demonstrators/lab staff

First lecturer for Wednesdays: David Lyons
Second lecturer for Tuesdays: To be advised
Name: Rowena Dai (co-head demonstrator)
Email: rowena.dai@unsw.edu.au
Name: Alex Lau (co-head demonstrator)
Email: alex.lay@unsw.edu.au

Please see the course Moodle for other demonstrator contact details.

2. Important links

- Moodle
- Lab Access
- Computing Facilities
- Student Resources
- Course Outlines
- Engineering Student Support Services Centre
- Makerspace
- UNSW Timetable
- UNSW Handbook
- UNSW Mechanical and Manufacturing Engineering

3. Course details

Credit points

This is a 6 unit-of-credit (UoC) course and involves 7.5 hours per week (h/w) of face-to-face contact.

Summary and Aims of the course

This is one of the introductory technology-based

6. Assessment

You are assessed by way of a product development project which involves designing and manufacturing a product based on given functional specifications. This project will test your ability to demonstrate applied knowledge, which you will be expected to perform as an engineering student. The weighting of the individual assessment components will be as follows in the table with full details on each assessment provided under Moodle/Assignments

Assessment overview

Assessment	Length	Weight %	Group/ Individual	Learning outcomes assessed	Assessment criteria	Due date and submission requirements	Deadline for absolute fail	Marks returned
1 (a):								

Special consideration and supplementary assessment

Moodle: https://moodle.telt.unsw.edu.au/login/index.php

8. Course evaluation and development

Feedback on the course is gathered periodically using various means, including the UNSW myExperience process, informal discussion in the final class for the course, and the School's Student/Staff meetings. Your feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.

In this course, recent improvements resulting from student feedback include streamlining of assignments and providing more information on pump design information early in the course. The Digital Uplift of this course in accordance with the UNSW 2025 Strategy was undertaken during the running of the course in semester 2, 2018. Full implementation has been implemented for T2-2019. Lecture material has been posted in Moodle lesson books and traditional lecture time transformed by a "flipping" process into interactive, flat-space (when available) design conclaves/seminars.

9. Academic honesty and plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW students have a responsibility to adhere to this principle of academic 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

Appendix A: Engineers Australia (EA) 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
	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	PE2.1 Application of established engineering methods to complex problem solving
	PE2.2 Fluent application of engineering techniques, tools and resources