



Mechanical and Manufacturing Engineering

Course Outline

I. Staff contact

Contact details and consultation times for course convenor

Mr David Lyons CEng FRINA MIEAust GCULT

Office location: Ainsworth J17 208D

Tel: (02) 9385 6120

Email: david.lyons@unsw.edu.au (email is the best form of contact)

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

Contact hours

Please refer to the Moodle Group Forum (MGF) set up for your group for details of face-to-face contact with your Mentor and other group members, online interaction and related activities. Regular and ongoing visits to, and interaction with, the MGF and attendance at group meetings is expected in this course.

Summary and Aims of the course

Thesis (Practice) allows each student to work under the guidance of academic staff and Mentors with input from technical (industry/research/practitioner) specialists. Topics are related to projects selected from contemporary practice. The work involves research-based investigations, industrial problems and design applications.

This course enhances the student's skills for undertaking scholarly enquiry by attempting to achieve a specific topic objective within a defined period of time. A significant component of the course relates to the review of literature, which promotes independent and reflective learning as well as increases students' capacity to develop information literacy. The thesis report is expected to reinforce the student's ability and confidence in the written communication of technical information. Verbal presentation skills are tested during presentations and at group meetings.

This course is the first of two parts and is undertaken before MMAN4020 Thesis B (Practice) next term. The thesis involves formulating the designs for and solutions to open-ended engineering problems called **Common Interdisciplinary Open-Ended Projects**¹. The problems will be drawn from contemporary practice and will be multi-disciplinary, involving the application of material learnt throughout your undergraduate program and will require a lot of creative thought. Part A includes the formulation of a Progress Report which includes a review of the relevant literature and other professional engineering documents.

The full text of the four CIOP Briefings for T1-2019 are posted on the course Moodle:

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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 Mentor 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 are other staff in the School (you should always seek an appointment by prior arrangement) that may have expertise in the area of your project. The successful execution of the project is solely the responsibility of the student.

¹ You will be placed in a group that will practice in one of four CIOP sectoral areas:
Humanitarian Energy

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6. Assessment

Assessment overview

Assessment

Group

Assignments

Presentation

All submissions are expected to be neat and clearly set out. Your results are the pinnacle of all your hard work and should be treated with due respect. Presenting results clearly gives the marker the best chance of understanding your method; even if the numerical results are incorrect.

Submission

Work submitted late without an approved extension by the course coordinator or delegated authority is subject to a late penalty of 20 percent (20%) of the maximum mark possible for that assessment item, per calendar day.

The late penalty is applied per calendar day (including weekends and public holidays) that the assessment is overdue. There is no pro-rata of the late penalty for submissions made part way through a day.

Work submitted after the 'deadline for absolute fail' is not accepted and a mark of zero will be awarded for that assessment item.

For some assessment items, a late penalty may not be appropriate. These are clearly indicated in the course outline, and such assessments receive a mark of zero if not completed by the specified date. Examples include:

- a. Weekly online tests or laboratory work worth a small proportion of the subject mark,
or
- b. Online quizzes where answers are released to students on completion, or
- c. Professional assessment tasks, where the intention is to create an authentic assessment that has an absolute submission date, or
- d. Pass/Fail assessment tasks.

Peer assessment

Each group member is required to attend and contribute in group meetings. Failure to do so, evidenced by your group peers, may lead to adjustments to your **Mentor Review** assessment. Any peer concerns should be raised with your group's Mentor. Any disputes requiring further resolution will be referred to the Course Convenor.

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.

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* [Article 10 of the Code of Practice of the Australian Council of Educational Research and Training \(ACER\)](#)

