MECH4620

COMPUTATIONAL FLUID DYNAMICS

1. Staff contact d

Contact details and consultation times for course convenor

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Communication preference: Email

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

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- Place CFD in the context of a useful design tool for industry and a vital research tool for thermos-fluid research across many disciplines;
- Familiarize students with the basic steps and terminology associated with CFD. This includes

5. Course schedule

Week	Lecturer	Topic	Work during laboratory session	Assignment Activity
1	VT			

6. Assessment

Assessment overview

You will be assessed by way of 2 sets of tutorial-style

Assignments

Tutorial-style problems

The short assignments containing 2 sets of tutorial-style problems (T1 and T2) are listed in the Course Schedule. They will involve theoretical work and calculations. Assignments will be available on the Moodle website.

Group project

The group project involves a complete CFD analysis, from the initial concept through to CAD, meshing, pre-

the examinations. The list of approved calculators is shown at
student.unsw.edu.au/exam-approved-calculators-and-computers

It is your responsibility to ensure that your calculator is of an approved make and model, and

Centre prior to
allowed into the examination room.

Special consideration and supplementary assessment

The discussion forum is intended for you to use with other enrolled students. The course convenor and/or demonstrators will occasionally look at the forum, monitor any inappropriate content, and take note of any frequently-asked questions, but will only respond to questions on the forum at their discretion. If you want help from the convenor, then direct contact is preferred.

8. Course evaluation and development

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

procedures can include a reduction in marks, failing a course or for the most serious matters (like plagiarism in an

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