MMAN3000

Professional Engineering and Communication

Contents

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Contact details and consultation times for course convenor

Mr Corey Martin
Office: Ainsworth Building (J17), Room 507
Email: corey.martin@unsw.edu.au

Consultation concerning this course is available immediately after the classes. Face-to-face consultation outside this time is available by appointment only.

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

Dr Mark Whitty
Office: Ainsworth Building (J17) Room 510G
Tel: (02) 9385 4230
Email: m.whitty@unsw.edu.au

Online content co-ordinator

Ms Sandra Cowan
Email: sandra.cowan@unsw.edu.au

Demonstrators

Details for each of the demonstrators can be found on Moodle

Credit Points

This is a 6 unit-of-credit (UoC) course, and involves 4 hours per week (h/w) of face-to-face contact.

approximately 25 hours per semester for each UoC, including class contact hours, other learning activities, preparation and time spent on all assessable work. Thus, for a full-time enrolled student, the normal workload, averaged across the 16 weeks of teaching, study and examination periods, is about 37.5 hours per week.

This means that you should aim to spend about 9-10 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.

There is no parallel teaching in this course.

Contact Hours

Students are required to attend the lecture as well as one of the demonstrations.

	Day	Time	Location
Lecture	Thursday	11am-1pm	Mathews Theatre A (K-D23-201)
Demonstrations	Monday	2pm-4pm	Blockhouse G13 (K-G6-G13)
	Monday	2pm-4pm	Blockhouse G15 (K-G6-G15)
	Wednesday	11am-1pm	Mathews 232 (K-F23-232)
	Wednesday	11am-1pm	Blockhouse G16 (K-G6-G16)

Summary of the Course

Professional Engineers are primarily concerned with the advancement of technologies and with the development of new technologies through research and their applications through innovation, creativity and change.

As future engineers you may have already discovered that having technical skills is only part of the attributes and characteristics required for you to successfully practice engineering.

This course exposes you to fundamental elements underpinning the profession and explores the professional and personal attributes required by you to practice engineering and thus enable you to respond to future challenges faced by our society.

Aims of the Course

This course takes a holistic approach to engineering with the goal of preparing you for life as a professional engineer.

The course will provide you with the opportunities to thoughtfully consider and respond to issues around being a global citizen including legal and ethical responsibilities as well as how to communicate effectively.

Part of being a professional engineer requires the ability for you to work with others and so an emphasis on leadership and teamwork

5 Assessment

Assessment Overview

You are assessed by way of web projects, quizzes and a reflection activity.

The parts of the course contribute towards the overall grade as follows:

ASSESSMENT	WEIGHTING	LEARNING OUTCOMES ASSESSED	MARKS RETURNED
Web Projects (x5)	70%	1, 2, 3, 4	Within 2 weeks of due date
Quiz	10%	1, 3	Within 2 weeks of due date
Reflection activity	20%	1, 3, 4	Within 2 weeks of due date
TOTAL			

ACTIVITIES	Release Date (@ midnight)	Due Date (@ midnight)
Project 1	04-AUG	11-AUG
Project 2	18-AUG	25-AUG

Recommended Internet sites

Engineers Australia provides a wide range of resources useful for developing your professional standing as an engineer within Australia
https://www.engineersaustralia.org.au

The Online Ethics Centre for Engineering and Science: http://www.onlineethics.org/

There are many websites giving lectures, papers and data on project management in general. A useful reference site is http://www.pmi.org

Other Resources

If you wish to explore any of the lecture topics in more depth, then other resources are available and assistance may be obtained from the UNSW Library. One starting point for assistance is: http://info.library.unsw.edu.au/web/services/services.html

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Feedback on the course is gathered periodically using various means, including the Course and Teaching Evaluation and Improvement (CATEI) process, informal discussion in the final

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:
www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf

Further information on School policy and procedures in the event of plagiarism is available on the intranet.

9. Administrative Matters

All students are expected to read and be familiar with School guidelines and polices,

Appendix A: Engineers Australia (EA) Professional Engineer [redacted] s

	Program Intended Learning Outcomes
[redacted]	[redacted]ng of underpinning
PE1: Knowledge and Skill Base	PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing