



UNSW
AUSTRALIA

Never Stand Still

Engineering

Mechanical and Manufacturing Engineering

Engineering

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Contact details and consultation times for course convenor

Name: Dr. David C. Kellermann
Office location: Ainsworth 208A
Tel: (02) 9385 4165
Email: d.kellermann@unsw.edu.au

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

Name: Dr Majid Warkiani
Office Location: Ainsworth Building (J17) 401D
Tel: (02) 9385 7580
Email: m.warkiani@unsw.edu.au

Contact details for Head Demonstrator

Name: Mr. Muhammad Danish Haneef
Office location: Ainsworth 408, Desk 20
Email: m.haneef@unsw.edu.au

Queries and consultation

For queries and consultation, proceed in the following order:

- 1) Ask your peers
- 2) Ask your demonstrator
- 3) Post to the Moodle forum
- 4) Email the head demonstrator
- 5) Email your lecturer
- 6) Arrange for a consultation time with your lecturer

If you email your head demonstrator or lecturer, please include all information in the email, for example, rather than saying “in Question 5 of the problem set”, take a screenshot or photo of Question 5 so we can answer your question on the spot.

Contact details and consultation times for additional demonstrators:

Name	Contact email address
Muhammad Danish Haneef (HEAD DEMONSTRATOR)	m.haneef@unsw.edu.au

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2. Unit of Credit

Credit Points

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

The UNSW website states “The normal workload expectations of a student are 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 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

	Day	Time	Location
Lecture	Tuesday Wednesday	4:05pm - 6pm	Elec Eng G24

facts or theories that we know. Rather, as our degree of transformation into someone who sees, understands, can make relevant and accurate predictions, and communicates about the world around us through the lens of Engineering Mechanics.

Student learning outcomes

This course is designed to address the below learning outcomes 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. Explain, describe and apply principles and components of Engineering Mechanics. Principles and components include: vectors, forces, torques, mass and inertia, particles and rigid bodies in two dimensions, equilibrium conditions, linear momentum and impact, kinetic and potential energy and internal forces and bending moments in beams.	1.1, 1.2, 2.1, 3.2
2. Define engineering systems in a mechanically useful way and describe their equilibrium or motion in mathematical and graphical fashion and be able to relate this description to the principles of engineering mechanics.	1.1, 1.2, 2.1, 2.2, 3.2
3. Discern the relevant principles that must be applied to describe the equilibrium or motion of engineering systems and discriminate between relevant and irrelevant information in the context.	1.1, 1.2, 2.1
4. Demonstrate an ability to communicate clearly and precisely about technical matters related to Engineering Mechanics.	1.6, 3.2
5. Accomplish hands on tasks that require the application of knowledge of Engineering Mechanics.	2.1, 2.2



This course will be delivered both in the classroom and online. Full participation in the class means that you will participate fully in both arenas. That is, you will be held accountable for all content, instructions, information, etc. that is delivered either in class or online. There will also be laboratory or practical exercises that you may have to complete during your self-study time.

Online: The online forum for participation in this class is the Moodle Platform. All official online interactions will take place or be linked clearly and appropriately from this site.

In class: There are three in-class activities in a typical week which we refer to as the Tuesday Lecture, Wednesday Lecture and Problem Solving Session based on the timetable

Both the online and in-

9	Trusses and Determinacy	Quiz 9	Rolling Disc Laboratory Experiment	M&K(S) 3/3-4; 4/1-4.
10	Distributed Forces, Centroids, Centre of Mass, Applications	Quiz 10	Rolling Disc Laboratory Report Due	M&K(S) 5/1-4,6.
11	Shear Force and Bending Moment	Quiz 11		M&K(S) 5/7.
12	Machines and Frames, Revision	Quiz 12	Shear Force and Bending Moment Laboratory Experiment	M&K(S) 4/6.
13	No Lecture		Shear Force and Bending Moment Laboratory Report Due	



Assessment overview

Assessment task	Length	Weight	Learning outcomes assessed	Assessment criteria	Due date, time	Deadline for absolute fail	Marks returned
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Laboratory Reports:

- Interpretation of the experimental results for the required information described in the hand out for each experiment
- Understanding the relationship between the theory covered during the lectures to experimental results in the laboratory
- Presentation of report in accordance with the MECHENG guidelines
- Attendance and participation during the laboratory experiments.

A pass in this course requires a mark of 50% in assessments and final examination.

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

~~Late~~ submissions will be penalised 4

size. Of course, arrangements will be made for emergencies such as illness. Arrangements for each type of assessment are tabulated below.

Type of Assessment	
Block tests 1-4	No supplementary
Weekly assessment	PSS and Moodle, no late submissions
Laboratory	Reports submission via Moodle
Final Examination	Standard UNSW special considerations for supplementary

You must be available for all tests and examinations. Final examinations for each course are held during the University examination periods, which are June for Semester 1 and November for Semester 2.

Provisional Examination timetables are generally published on myUNSW in May for Semester 1 and September for Semester 2

For further information on exams, please see the [Exams](#) section on the intranet.

Calculators

You will need to provide your own calculator, of a make and model approved by UNSW, for 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 to obtain an “Approved” sticker for it from the School Office or the Engineering Student Centre prior to the examination. Calculators not bearing an “Approved” sticker will not be allowed into the examination room.

Special consideration and supplementary assessment

For details of applying for special consideration and conditions for the award of supplementary assessment, see the School [intranet](#), and the information on UNSW’s [Special Consideration page](#).

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Moodle site for MMAN1300, a

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

