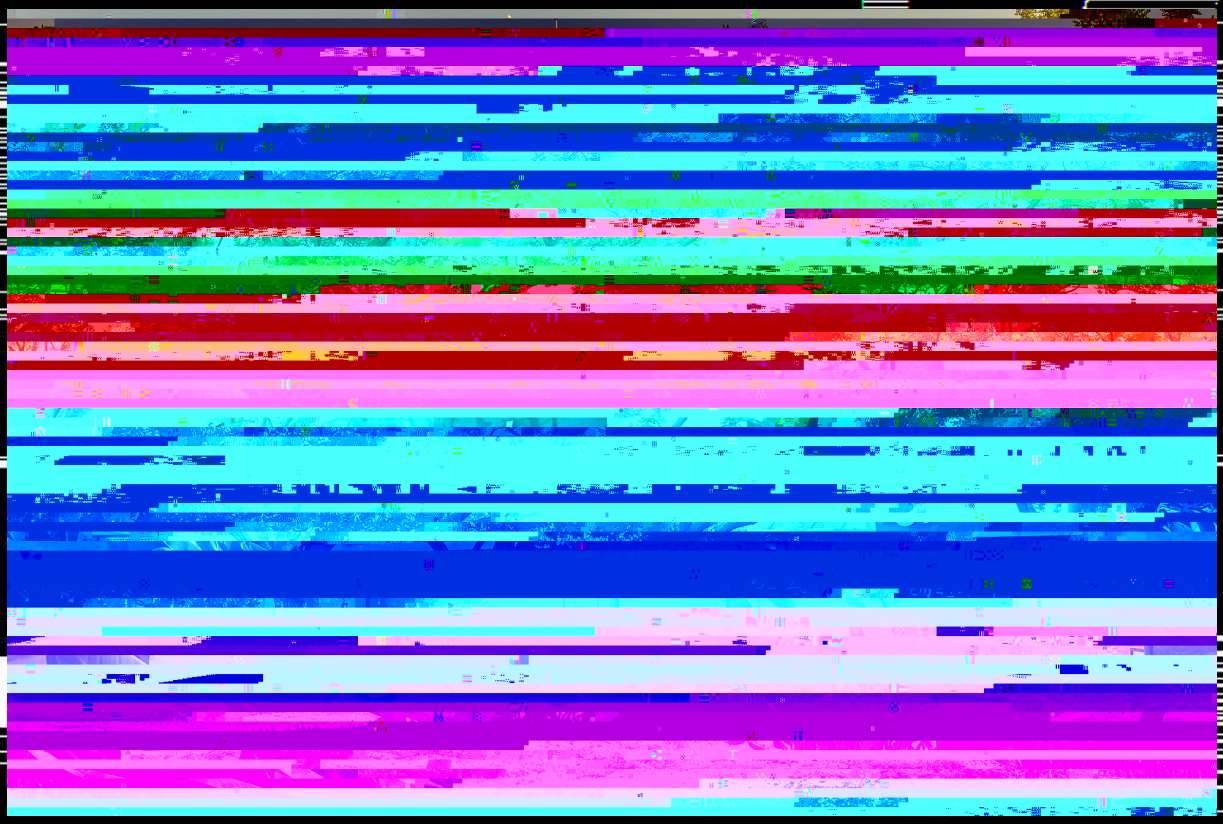
ENGG1300

Engineering Mechanics

Term 2, 2022



Course Overview

Staff Contact Details

Convenors

Name	Email	Availability	Location	Phone
Wei Gao	w.gao@unsw.edu.au	1:00pm-2:00pm on Tuesdays	Room 608, Building H20	9385 4123

School Contact Information

Engineering Student Support Services – The Nucleus - enrolment, progression checks, clash requests, course issues or program-related queries

Engineering Industrial Training – Industrial training questions

UNSW Study Abroad – study abroad student enquiries (for inbound students)

UNSW Exchange – student exchange enquiries (for inbound students)

UNSW Future Students – potential student enquiries e.g. admissions, fees, programs, credit transfer

Phone

(+61 2) 9385 8500 – Nucleus Student Hub

(+61 2) 9385 7661 – Engineering Industrial Training

(+61 2) 9385 3179 – UNSW Study Abroad and UNSW Exchange (for inbound students)

Course Details

Units of Credit 6

Summary of the Course

Assessment

Assessment task	Weight	Due Date	

you are late you do not receive additional time. There will be no supplementary quiz. If you miss or cannot attend it, you can apply for special consideration, if successful, its weighting can be distributed to the final exam.

Assessment criteria

Solve problems and demonstrate good engineering practice in an exam environment

Assessment 3: Lab Assignment (9%) and Challenging Questions Assignment (10%)

Start date: Week 4
Assessment length: a) Lab assignment: 3 weeks; b) Challenging Questions assignment: 5 weeks
Due date: Lab-Week 7; Challenging-Week 9
Deadline for absolute fail: 5 days after the deadline
Marks returned: Within 7 days

The lab assignment and challenging questions assignment are designed to let you do virtual reality lab experiments and do practice by solving a set of challenging problems, respectively. Late work will be penalised at the rate of 5% per day after the submission deadline and capped at five days (120 hours).

Assessment criteria

a) Lab assignment: implement virtual reality lab experiments

Hurdle requirement

Students need to achieve at least 40% in the final exam in order to pass the course.

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

Course Schedule

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View class timetable

Timetable

Date	Type	Content
O-Week: 23 May - 27 May		
Week 1: 30 May - 3 June	Topic	

Week 7: 11 July - 15 July	Topic	M8: Geometric Section Properties of Plane Figures; Centroid; Second Moment of Area; Parallel Axis Theorem; M9: Introduction to Dynamics
	Assessment	Lab Assignment due on Friday at 8pm Week 7 Quiz: M8
Week 8: 18 July - 22 July	Topic	M9: Kinematics of particles; Motion in One Dimension; Rectilinear Motion
	Assessment	Week 8 Quiz: M9
Week 9: 25 July - 29 July		

Resources

Academic Honesty and Plagiarism

Beware! An assignment that includes plagiarised material will receive a 0% Fail, and students who plagiarise may fail the course. Students who plagiarise are also liable to disciplinary action, including exclusion from enrolment.

Plagiarism is the use of another person's work or ideas as if they were your own. When it is necessary or desirable to use other people's material you should adequately acknowledge whose words or ideas they are and where you found them (giving the complete reference details, including page number(s)). The Learning Centre provides further information on what constitutes Plagiarism at:

https://student.unsw.edu.au/plagiarism

Academic Information

Final Examinations:

Final exams in T2 2022 will be held online between 12th - 25th August 2022 inclusive, and supplementary exams between 5th - 9th September 2022 inclusive. You are required to be available on these dates. Please do not to make any personal or travel arrangements during this period.

ACADEMIC ADVICE

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Appendix: Engineers Australia (EA) Professional Engineer Competency Standard

Program Intended Learning Outcomes	
Knowledge and skill base	
PE1.1 Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline	
PE1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline	
PE1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline	
PE1.4 Discernment of knowledge development and research directions within the engineering discipline	
PE1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline	
PE1.6 Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline	
Engineering application ability	
PE2.1 Application of established engineering methods to complex engineering problem solving	
PE2.2 Fluent application of engineering techniques, tools and resources	
PE2.3 Application of systematic engineering synthesis and design processes	
PE2.4 Application of systematic approaches to the conduct and management of engineering projects	
Professional and personal attributes	
PE3.1 Ethical conduct and professional accountability	
PE3.2 Effective oral and written communication in professional and lay domains	
PE3.3 Creative, innovative and pro-active demeanour	
PE3.4 Professional use and management of information	
PE3.5 Orderly management of self, and professional conduct	
PE3.6 Effective team membership and team leadership	