



## UNSW Course Outline

# ZEIT2504 Mechanics of Solids - 2024

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## General Course Information

**Course Code :** ZEIT2504

**Year :** 2024

**Term :** Semester 2

**Teaching Period :** Z2

**Is a multi-term course? :** No

**Faculty :** UNSW Canberra

**Academic Unit :** School of Engineering and Technology

**Delivery Mode :** In Person

**Delivery Format :** Standard

**Delivery Location :** UNSW Canberra at ADFA

**Campus :** UNSW Canberra

**Study Level :** Undergraduate

**Units of Credit :** 6

[Useful Links](#)

[Handbook Class Timetable](#)

## Course Details & Outcomes

### Course Description

The mechanical behaviour and analysis of solid objects under various loadings is considered in this course. The fundamental concepts of stress and strain are introduced to quantify the behaviour of structural components. The aim of the course is to provide students with

fundamental knowledge regarding the examination of the stresses and strains inside bodies of finite dimensions that deform under loads using the physical properties of the materials as well as various theoretical models and concepts. Experimental material characterization and techniques for solving for stresses, strains and displacements of rods and torsional shafts, bending in beams and buckling of columns also form part of the syllabus. This 6 Units of Credit course extends the work done in Statics to enable detailed behaviour of deformable solids under complex loading to be presented.

## Course Aims

The aim of the course is to provide students with fundamental knowledge regarding the examination of the stresses and strains inside bodies of finite dimensions that deform under loads using the physical properties of the materials as well as various theoretical models and concepts.

## Relationship to Other Courses

The course extends the work done in Statics to enable detailed behaviour of deformable solids under complex loading to be presented.

**Prerequisite:** ZEIT1503 Engineering Mechanics.

# Course Learning Outcomes

Course Learning Outcomes	Engineers Australia - Professional Engineer (Stage 1)
CLO1 : On successful completion of this course, the student will be able to explain the principles of Mechanics of Solids and concepts of stress and strain analysis for basic structural components	<ul style="list-style-type: none"> <li>• PEE1.1 : Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline</li> <li>• PEE1.3 : In-depth understanding of specialist bodies of knowledge within the engineering discipline</li> <li>• PEE1.4 : Discernment of knowledge development and research directions within the engineering discipline</li> <li>• PEE2.1 : Application of established engineering methods to complex engineering problem solving</li> <li>• PEE2.2 : Fluent application of engineering techniques, tools and resources</li> <li>• PEE3.2 : Effective oral and written communication in professional and lay domains</li> <li>• PEE3.3 : Creative, innovative and pro-active demeanour</li> </ul>
CLO2 : On successful completion of this course, the student will be able to solve the problems related to the strength and mechanical performance of structures and structural components subjected to various mechanical and thermal loads	<ul style="list-style-type: none"> <li>• PEE1.1 : Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline</li> <li>• PEE1.3 : In-depth understanding of specialist bodies of knowledge within the engineering discipline</li> <li>• PEE2.1 : Application of established engineering methods to complex engineering problem solving</li> <li>• PEE2.2 : Fluent application of engineering techniques, tools and resources</li> <li>• PEE3.3 : Creative, innovative and pro-active demeanour</li> </ul>
CLO3 : On successful completion of this course, the student will be able to apply theory and knowledge of Mechanics of Solids to the solution of the practical engineering problems	<ul style="list-style-type: none"> <li>• PEE1.1 : Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline</li> <li>• PEE1.3 : In-depth understanding of specialist bodies of knowledge within the engineering discipline</li> <li>• PEE1.5 : Knowledge of engineering design practice and contextual factors impacting the engineering discipline</li> <li>• PEE1.6 : Understanding of the scope,</li> </ul>

	<p>principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline</p> <ul style="list-style-type: none"> <li>• PEE2.1 : Application of established engineering methods to complex engineering problem solving</li> <li>• PEE2.2 : Fluent application of engineering techniques, tools and resources</li> <li>• PEE3.1 : Ethical conduct and professional accountability</li> </ul>
CLO4 : On successful completion of this course, the student will be able to undertake research including the utilization of a range of analytical approaches and experimental techniques	<ul style="list-style-type: none"> <li>• PEE1.1 : Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline</li> <li>• PEE1.3 : In-depth understanding of specialist bodies of knowledge within the engineering discipline</li> <li>• PEE1.4 : Discernment of knowledge development and research directions within the engineering discipline</li> <li>• PEE1.5 : Knowledge of engineering design practice and contextual factors impacting the engineering discipline</li> <li>• PEE2.1 : Application of established engineering methods to complex engineering problem solving</li> <li>• PEE2.2 : Fluent application of engineering techniques, tools and resources</li> <li>• PEE3.3 : Creative, innovative and pro-active demeanour</li> </ul>

Course Learning Outcomes	Assessment Item
CLO1 : On successful completion of this course, the student will be able to explain the principles of Mechanics of Solids and concepts of stress and strain analysis for basic structural components	<ul style="list-style-type: none"> <li>• Laboratory Reports</li> <li>• Final Exam 3 hours</li> </ul>
CLO2 : On successful completion of this course, the student will be able to solve the problems related to the strength and mechanical performance of structures and structural components subjected to various mechanical and thermal loads	<ul style="list-style-type: none"> <li>• Class Test x 2</li> <li>• Laboratory Reports</li> <li>• Final Exam 3 hours</li> </ul>
CLO3 : On successful completion of this course, the student will be able to apply theory and knowledge of Mechanics of Solids to the solution of the practical engineering problems	<ul style="list-style-type: none"> <li>• Class Test x 2</li> <li>• Laboratory Reports</li> <li>• Final Exam 3 hours</li> </ul>
CLO4 : On successful completion of this course, the student will be able to undertake research including the utilization of a range of analytical approaches and experimental techniques	<ul style="list-style-type: none"> <li>• Class Test x 2</li> <li>• Laboratory Reports</li> <li>• Final Exam 3 hours</li> </ul>

## Learning and Teaching Technologies

Moodle - Learning Management System

## Learning and Teaching in this course

### The Learning Management System

Moodle is the Learning Management System used at UNSW Canberra. All courses have a Moodle site which will become available to students at least one week before the start of semester.

Please find all help and documentation (including Blackboard Collaborate) at the [Moodle Support page](#).

UNSW Moodle supports the following web browsers:

» Google Chrome 50+

» Safari 10+

\*\* Internet Explorer is not recommended

\*\* Addons and Toolbars can affect any browser's performance.

Operating systems recommended are:

Windows 7, 10, Mac OSX Sierra, iPad IOS10

For further details about system requirements click [here](#).

Log in to Moodle [here](#).

If you need further assistance with Moodle:

For enrolment and login issues please contact:

IT Service Centre

Email: [itservicecentre@unsw.edu.au](mailto:itservicecentre@unsw.edu.au)

Phone: (02) 9385-1333

International: +61 2 9385 1333

For all other Moodle issues please contact:

External TELT Support

Email: [externalteltsupport@unsw.edu.au](mailto:externalteltsupport@unsw.edu.au)

Phone: (02) 9385-3331

International: +61 2 938 53331

Opening hours:

Monday – Friday 7:30am – 9:30 pm

Saturday & Sunday 8:30 am – 4:30pm

## Other Professional Outcomes

### Developing Graduate Capabilities

This course contributes to the following Engineers Australia Stage 1 Competencies:

1.1 Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline.

1.3. In-depth understanding of specialist bodies of knowledge within the engineering discipline.

1.4. Discernment of knowledge development and research directions within the engineering discipline.

2.1. Application of established engineering methods to complex engineering problem solving.

- 2.2. Fluent application of engineering techniques, tools and resources.
- 2.3. Application of systematic engineering synthesis and design processes.
- 3.3. Creative, innovative and pro-active demeanour.

## Additional Course Information

A combined teaching strategy based on the conventional approach (classical lecture-style presentations) and interactive communication at the tutorial sessions is employed to deliver this course to support the student learning outcomes (LOs). This includes:

- lectures delivered using Power Point presentations of the course notes in combination with the direct presentation of the course material on the board (the latter will demonstrate the use of analytical skills and techniques in the problem-solving process)
- tutorial assignments and model answers to develop analytical and computational skills
- tutorial sessions to work on and discuss tutorial questions and problems

Two to four problems will be assigned each tutorial class but will not be formally marked. Instead, the students will discuss the problems and solve them in class and at home. Student's active participation in the tutorial sessions is strongly encouraged and highly valued. This will contribute significantly to the overall benefit and outcomes of the course.

### Academic Integrity and Plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to this principle of academic integrity. All students are expected to adhere to UNSW's Student Code of Conduct  
<https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf>

Plagiarism undermines academic integrity and is not tolerated at UNSW. *It is defined as using the words or ideas of others and passing them off as your own, and can take many forms, from deliberate cheating to accidental copying from a source without acknowledgement.*

For more information, please refer to the following:

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

### Referencing

In this course, students are required to reference following the APA 7 / Chicago NB referencing

style. Information about referencing styles is available at: <https://guides.lib.unsw.adfa.edu.au/c.php?g=472948&p=3246720>

## Study at UNSW Canberra

<https://www.unsw.adfa.edu.au/study>

Study at UNSW Canberra has lots of useful information regarding:

- Where to get help
- Administrative matters
- Getting your passwords set up
- How to log on to Moodle
- Accessing the Library and other areas.

CRICOS Provider no. 00098G

The University of New South Wales Canberra.

# Assessments

## Assessment Structure

Assessment Item	Weight	Relevant Dates	Engineers Australia - Professional Engineer (Stage 1)
Class Test x 2	40%	Start Date: Not Applicable Due Date: Not Applicable Post Date: 06/08/2024 01:00 PM	<ul style="list-style-type: none"><li>• PEE1.3 : In-depth understanding of specialist bodies of knowledge within the engineering discipline</li><li>• PEE2.1 : Application of established engineering methods to complex engineering problem solving</li><li>• PEE2.2 : Fluent application of engineering techniques, tools and resources</li><li>• PEE3.2 : Effective oral and written communication in professional and lay domains</li></ul>
Laboratory Reports	10%	Start Date: Not Applicable Due Date: Not Applicable Post Date: 31/07/2024 05:00 PM	<ul style="list-style-type: none"><li>• PEE1.1 : Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline</li><li>• PEE1.3 : In-depth understanding of specialist bodies of knowledge within the engineering discipline</li><li>• PEE2.2 : Fluent application of engineering techniques, tools and resources</li><li>• PEE3.2 : Effective oral and written communication in professional and lay domains</li><li>• PEE3.4 : Professional use and management of information</li></ul>
Final Exam 3 hours	50%	Start Date: Not Applicable Due Date: Not Applicable Post Date: 04/11/2024 12:00 PM	<ul style="list-style-type: none"><li>• PEE1.1 : Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline</li><li>• PEE1.3 : In-depth understanding of specialist bodies of knowledge within the engineering discipline</li><li>• PEE2.1 : Application of established engineering methods to complex engineering problem solving</li><li>• PEE2.2 : Fluent application of engineering techniques, tools and</li></ul>

			<p>resources</p> <ul style="list-style-type: none"> <li>• PEE3.2 : Effective oral and written communication in professional and lay domains</li> <li>• PEE3.3 : Creative, innovative and pro-active demeanour</li> <li>• PEE3.1 : Ethical conduct and professional accountability</li> <li>• PEE3.5 : Orderly management of self, and professional conduct</li> </ul>
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## Assessment Details

### Class Test x 2

#### Assessment Overview

The assessment of student performance during the semester is based on the results of two tests (valued at 20%+20% = 40% of the total final mark) and laboratory reports (valued at 10% of the total final mark). The tests are designed in the way that enables the lecturer to assess the student performance and at the same time to make the student think of the material presented in the test paper in the close context to the main course goals (LO 2, 3 & 4). The test results are discussed at the tutorial sessions. Solutions, answers, and typical errors made by the students are analysed and discussed to provide and stimulate true understanding of the course materials, and develop a skill for the practical knowledge implementation. To pass the test a student should demonstrate the ability to make creative use of his/her knowledge of the course in the solution process.

#### Course Learning Outcomes

- CLO2 : On successful completion of this course, the student will be able to solve the problems related to the strength and mechanical performance of structures and structural components subjected to various mechanical and thermal loads
- CLO3 : On successful completion of this course, the student will be able to apply theory and knowledge of Mechanics of Solids to the solution of the practical engineering problems
- CLO4 : On successful completion of this course, the student will be able to undertake research including the utilization of a range of analytical approaches and experimental techniques

#### Detailed Assessment Description

Two 50-minute class tests are conducted during the lecture hours. The tests are designed in the way that enables the lecturer to assess the student performance and at the same time to make the student think of the material presented in the test paper in the close context to the main course goals (LO2, 3 & 4).

Class Test 1 (20%) - week 4

Class Test 2 (20%) - week 9

#### Assessment Length

N/A

#### Submission notes

Class test books

#### Assessment information

N/A

#### Assignment submission Turnitin type

Not Applicable

## Laboratory Reports

#### Assessment Overview

There will be four laboratory experiments to complete in this semester. **The experiments will be performed during two laboratory periods of 3 hours duration each.** A separate laboratory schedule will be distributed early in semester. The reports are to be submitted at the end of the laboratory session. After performing the experiments and taking the data, all students will then complete their reports. **The writing up will be inside the laboratory area and within the allocated three hours.** No extension or postponement of report submission will be allowed. **The reports must be submitted even if incomplete. Reports will be treated as quizzes and must be completed individually and independently even if the data was common between members of a group.** Obviously, pre-reading of the experiment and relevant material is important. The raw reports are issued to the students in the first week of semester. Students must bring the reports with them together with any extra sheets of paper and graph paper that they may need when reporting the experiments.

#### Course Learning Outcomes

- CLO1 : On successful completion of this course, the student will be able to explain the principles of Mechanics of Solids and concepts of stress and strain analysis for basic structural components
- CLO2 : On successful completion of this course, the student will be able to solve the problems related to the strength and mechanical performance of structures and structural components subjected to various mechanical and thermal loads
- CLO3 : On successful completion of this course, the student will be able to apply theory and

knowledge of Mechanics of Solids to the solution of the practical engineering problems

- CLO4 : On successful completion of this course, the student will be able to undertake research including the utilization of a range of analytical approaches and experimental techniques

#### **Detailed Assessment Description**

MOS1 includes two experiments:

1. E-101 Modulus of Elasticity - Flexure

2. E-102 Poisson's Ratio - Flexure

MOS2 includes two experiments:

1. E-105 Cantilever Flexure

2. Torsion

The lab reports will be completed and submitted at the end of each laboratory session. A separate laboratory schedule will be distributed early in semester. Each student will attend the two lab sessions as per that schedule. After performing the experiments and taking the data, all students will then complete their reports. **The writing up will be inside the laboratory area and within the allocated three hours.** No extension or postponement of report submission will be allowed. **The reports must be submitted even if incomplete. Reports will be treated as quizzes and must be completed individually and independently even if the data was common between members of a group.**

The weight of assessment (MOS1 and MOS2) is 10% (4 x 2.5%)

#### **Assessment Length**

Students will complete four raw lab reports.

#### **Submission notes**

Lab Journals

#### **Assessment information**

N/A

#### **Assignment submission Turnitin type**

Not Applicable

# **Final Exam 3 hours**

## **Assessment Overview**

The principle of progressive assessment is implemented in order to support the learning process and provide the feedback to the students regarding their performance during the course of study. Final assessment is accomplished at the examination session (valued at 50 % of the total final mark) (LO1, 2, 3 & 4). The examination paper format and layout are designed to enable students to be well prepared to the course requirements. The examination paper format is similar to that used in the test papers.

## **Course Learning Outcomes**

- CLO1 : On successful completion of this course, the student will be able to explain the principles of Mechanics of Solids and concepts of stress and strain analysis for basic structural components
- CLO2 : On successful completion of this course, the student will be able to solve the problems related to the strength and mechanical performance of structures and structural components subjected to various mechanical and thermal loads
- CLO3 : On successful completion of this course, the student will be able to apply theory and knowledge of Mechanics of Solids to the solution of the practical engineering problems
- CLO4 : On successful completion of this course, the student will be able to undertake research including the utilization of a range of analytical approaches and experimental techniques

## **Detailed Assessment Description**

Final assessment is accomplished at the examination session (valued at 50 % of the total final mark) (LO1, 2, 3 & 4). The examination paper format and layout are designed to enable students to be well prepared to the course requirements. The examination paper format is similar to that used in the test papers.

## **Assessment Length**

3 hours

## **Submission notes**

Exam books

## **Assessment information**

N/A

## **Assignment submission Turnitin type**

Not Applicable

# General Assessment Information

All marks obtained for assessment items during the session are provisional. The final mark as published by the university following the assessment review group meeting is **the only official mark**.

The principle of progressive assessment is implemented in order to support the learning process and provide the feedback to the students regarding their performance during the course of study.

The assessment of student performance during the semester is based on the results of two tests (valued at  $20\%+20\% = 40\%$  of the total final mark) and laboratory reports (valued at 10% of the total final mark). The tests are designed in the way that enables the lecturer to assess the student performance and at the same time to make the student think of the material presented in the test paper in the close context to the main course goals (LO2, 3 & 4).

To pass the test a student should demonstrate the ability to make creative use of his/her knowledge of the course in the solution process. **No late submission of assessments and the use of Generative AI are allowed.** It is prohibited to use any software or service to search for or generate information or answers. If its use is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

Two 50-minute class tests are conducted during the lecture hours. Students will get the feedback (marked scripts with comments) of class test 1 by the census date (11 August). Final assessment is accomplished at the examination session (valued at 50 % of the total final mark) (LO1, 2, 3 & 4). The examination paper format and layout are designed to enable students to be well prepared to the course requirements. The examination paper format is similar to that used in the test papers.

## Grading Basis

Standard

## Requirements to pass course

The overall passing mark is 50%

# Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 15 July - 19 July	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Lecture	Friday, 10:00 - 11:50, LTN06, Evgeny Morozov
Week 2 : 22 July - 26 July	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Lecture	Friday, 10:00 - 11:50, LTN06, Evgeny Morozov
Week 3 : 29 July - 2 August	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20
	Lecture	Friday, 10:00 - 11:50, LTN06, Evgeny Morozov
Week 4 : 5 August - 9 August	Assessment	Class test, Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20
	Lecture	Friday, 10:00 - 11:50, LTN06, Evgeny Morozov
Week 5 : 12 August - 16 August	Lecture	Tuesday, 10:00 - 11:50, LTN06, Evgeny Morozov
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20
Week 6 : 19 August - 23 August	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20
	Lecture	Friday, 10:00 - 11:50, LTN06, Evgeny Morozov
Week 7 : 9 September - 13 September	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20
	Lecture	Friday, 10:00 - 11:50, LTN06, Evgeny Morozov
Week 8 : 16 September - 20 September	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20

	Lecture	Friday, 10:00 -11:50, LTN06, Evgeny Morozov
Week 9 : 23 September - 27 September	Assessment	Class Test, Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20
	Lecture	Friday, 10:00 -11:50, LTN06, Evgeny Morozov
Week 10 : 30 September - 4 October	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20
	Lecture	Friday, 10:00 -11:50, LTN06, Evgeny Morozov
Week 11 : 7 October - 11 October	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
Week 12 : 14 October - 18 October	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20
	Lecture	Friday, 10:00 -11:50, LTN06, Evgeny Morozov
Week 13 : 21 October - 25 October	Lecture	Tuesday, 12:10 - 14:00, LTS01, Evgeny Morozov
	Tutorial	Tuesday, 14:10 - 15:00, LTS04, Hongxu Wang
	Laboratory	Wednesday, 14:10 - 17:00, Main Lab Civil, Bld 20
	Tutorial	Thursday, 11:00 - 11:50, LTS02, Hongxu Wang
	Tutorial	Thursday, 12:10 - 13:00, SL1, Hongxu Wang
	Laboratory	Thursday, 15:10 - 18:00, Main Lab Civil, Bld 20
	Lecture	Friday, 10:00 -11:50, LTN06, Evgeny Morozov

## Attendance Requirements

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

## General Schedule Information

Students are expected to attend all classes in the course.

## Course Resources

### Prescribed Resources

Beer FP, Johnston ER, DeWolf JT and Mazurek DF. **Mechanics of Materials, 7<sup>th</sup> Edition in SI Units**, McGraw-Hill, 2015, ISBN 978-9-814-59524-7

# Recommended Resources

Hibbeler RC. Mechanics of Materials, SI Edition, 11th edition, Pearson, 2023, ISBN-13: 9781292725734

## Additional Costs

N/A

## Course Evaluation and Development

One of the key priorities in the 2025 Strategy for UNSW is a drive for academic excellence in education. One of the ways of determining how well UNSW is progressing towards this goal is by listening to our own students. Students will be asked to complete the myExperience survey towards the end of this course.

Students can also provide feedback during the semester via: direct contact with the lecturer, the “On-going Student Feedback” link in Moodle, Student-Staff Liaison Committee meetings in schools, informal feedback conducted by staff, and focus groups. Student opinions really do make a difference. Refer to the Moodle site for this course to see how the feedback from previous students has contributed to the course development.

**Important note:** Students are reminded that any feedback provided should be constructive and professional and that they are bound by the Student Code of Conduct Policy

<https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf>

## Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Evgeny Morozov		Room 208, Building 17	+61 2 51145185	Consultation at any time in working hours. Appointment by email preferred to avoid clashes.	Yes	Yes
Tutor	Hongxu Wang		Room 227, Bld 16	+61 2 51145217	Consultation at any time in working hours. Appointment by email preferred to avoid clashes.	No	No