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# 1. Staff contact details

## Contact details and consultation times for course convenor

Name: Dr Kana Kanapathipillai  
Office location: J17/AW408J  
Tel: (02) 9385 4251  
Email: [s.kanapathipillai@unsw.edu.au](mailto:s.kanapathipillai@unsw.edu.au)  
Moodle: <https://moodle.telt.unsw.edu.au/login/index.php>

Generally, problem-solving class time should be used for direct consultation. Following problem-solving class if you need further consultation, then you may use phone or email for making an appointment for further consultation.

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

Name: Mr Garen Douzian (Head Demonstrator)  
Email: [g.douzian@unsw.edu.au](mailto:g.douzian@unsw.edu.au)  
Moodle: <https://moodle.telt.unsw.edu.au/login/index.php>

# 2. Important links

[Moodle](#)

[Lab Access](#)

[Health and Safety \(02\) 9385 4251](#) [Fire \(02\) 9385 4251](#) [Police \(02\) 9385 4251](#) [Ambulance \(02\) 9385 4251](#) [First Aid \(02\) 9385 4251](#) [Lost Property \(02\) 9385 4251](#) [IT Support \(02\) 9385 4251](#) [Library \(02\) 9385 4251](#) [Student Services \(02\) 9385 4251](#) [Academic Support \(02\) 9385 4251](#) [Career Services \(02\) 9385 4251](#) [International Student Services \(02\) 9385 4251](#) [Disability Services \(02\) 9385 4251](#) [Mental Health Services \(02\) 9385 4251](#) [Counselling Services \(02\) 9385 4251](#) [Financial Services \(02\) 9385 4251](#) [Legal Services \(02\) 9385 4251](#) [Medical Services \(02\) 9385 4251](#) [Pharmacy Services \(02\) 9385 4251](#) [Dental Services \(02\) 9385 4251](#) [Optical Services \(02\) 9385 4251](#) [Podiatry Services \(02\) 9385 4251](#) [Physiotherapy Services \(02\) 9385 4251](#) [Occupational Therapy Services \(02\) 9385 4251](#) [Speech and Language Services \(02\) 9385 4251](#) [Social Work Services \(02\) 9385 4251](#) [Youth Services \(02\) 9385 4251](#) [Elder Services \(02\) 9385 4251](#) [Family Services \(02\) 9385 4251](#) [Domestic Violence Services \(02\) 9385 4251](#) [Sexual Assault Services \(02\) 9385 4251](#) [Stalking Services \(02\) 9385 4251](#) [Identity Theft Services \(02\) 9385 4251](#) [Credit Reporting Services \(02\) 9385 4251](#) [Debt Counselling Services \(02\) 9385 4251](#) [Bankruptcy Services \(02\) 9385 4251](#) [Tax Services \(02\) 9385 4251](#) [Immigration Services \(02\) 9385 4251](#) [Visa Services \(02\) 9385 4251](#) [Citizenship Services \(02\) 9385 4251](#) [Naturalisation Services \(02\) 9385 4251](#) [Passport Services \(02\) 9385 4251](#) [Driving Services \(02\) 9385 4251](#) [Licence Services \(02\) 9385 4251](#) [Registration Services \(02\) 9385 4251](#) [Insurance Services \(02\) 9385 4251](#) [Legal Services \(02\) 9385 4251](#) [Dispute Resolution Services \(02\) 9385 4251](#) [Mediation Services \(02\) 9385 4251](#) [Arbitration Services \(02\) 9385 4251](#) [Conciliation Services \(02\) 9385 4251](#) [Negotiation Services \(02\) 9385 4251](#) [Litigation Services \(02\) 9385 4251](#) [Court Services \(02\) 9385 4251](#) [Legal Aid Services \(02\) 9385 4251](#) [Pro Bono Services \(02\) 9385 4251](#) [Community Legal Services \(02\) 9385 4251](#) [Legal Advice Services \(02\) 9385 4251](#) [Legal Representation Services \(02\) 9385 4251](#) [Legal Assistance Services \(02\) 9385 4251](#) [Legal Support Services \(02\) 9385 4251](#) [Legal Research Services \(02\) 9385 4251](#) [Legal Writing Services \(02\) 9385 4251](#) [Legal Analysis Services \(02\) 9385 4251](#) [Legal Opinion Services \(02\) 9385 4251](#) [Legal Consultation Services \(02\) 9385 4251](#) [Legal Advice Services \(02\) 9385 4251](#) [Legal Representation Services \(02\) 9385 4251](#) [Legal Assistance Services \(02\) 9385 4251](#) [Legal Support Services \(02\) 9385 4251](#) [Legal Research Services \(02\) 9385 4251](#) [Legal Writing Services \(02\) 9385 4251](#) [Legal Analysis Services \(02\) 9385 4251](#) [Legal Opinion Services \(02\) 9385 4251](#) [Legal Consultation Services \(02\) 9385 4251](#)

further reading, and revising for any examinations.

### Contact hours

	<b>Day</b>	<b>Time</b>	<b>Location</b>
<b>Lectures</b>	Tuesday	5pm - 6pm	Ritchie



<b>Week</b>	<b>Topic</b>	<b>Location</b>	<b>Suggested Readings</b>
5	No Lecture		
	No Lecture		
6	Bolted Joints 2	Ritchie Theatre	Lecture notes, Moodle & Textbook
	Bearings 1	ChemSc M17	Lecture notes, Moodle & Textbook
7	Bearings 2	Ritchie Theatre	Lecture notes, Moodle & Textbook
	Guest Lecture	ChemSc M17	Lecture notes, Moodle
8	Shafts 1	Ritchie Theatre	Lecture notes, Moodle & Textbook
	Shafts 2	ChemSc M17	Lecture notes, Moodle & Textbook
9	Shafts 3	Ritchie Theatre	Lecture notes, Moodle & Textbook
	Gears 1	ChemSc M17	Lecture notes, Moodle & Textbook
10	Gears 2	Ritchie Theatre	Lecture notes, Moodle & Textbook
	Fatigue Analysis	ChemSc M17	Lecture notes, Moodle & Textbook

Problem-solving sessions (PSS) will be conducted on Tuesdays between 12 pm – 2 pm or 2 pm – 4 pm in Ainsworth

## 6. Assessment

### Assessment overview

Assessment	Group Project? (# Students per group)	Length	Weight	Learning outcomes assessed	Assessment criteria	Due date and submission requirements	Deadline for absolute fail	Marks returned
Client Negotiations and report	Yes (6)	~ 500 words	10%	1 to 4	Interpretation and analysis of client requirements, formulation of competitive design for tender under simulated conditions.	Client negotiation: Week 3 during PSS Report: Midnight, Friday 13 <sup>th</sup> March via Moodle	Week 5	Within one week after submission
Design Pitch	Yes (6)/No	Not applicable	20%	1 to 4	Presentation skills, design familiarity and explanation in professional setting.	During wee		

## Assignments

The client negotiation and the project reports be submitted electronically through a drop box in Moodle by mid-night, Friday in the weeks indicated in the assessment overview. The project is a group-based task. You will be marked for your personal contribution to the team outcome; this will be done by using team evaluation software available on Moodle.

The project has a group presentation of the final design of the major assignment during the tutorial times in weeks 7 and 8. Although it is a group presentation, individual members will be assessed on design knowledge, presentation, use of visual aids and answering questions from the audience. Prototype testing of the major assignment will be conducted in Week 11 in J18/214. The time will be advised in due course. Your personal contribution to the prototype testing will also be marked through the Moodle Team evaluation software.

The reports will be assessed based on your ability to adhere to the recommended formats for submission and on the quality of your discussion in relation to the content. All calculation tasks will be assessed on accuracy supported by a clear and coherent development of the method according to the course standard format. All CAD modelling/drawing and hand sketches will be assessed on dimensional accuracy, functional proportion and comparison to industry standards as given in AS1100.

The assessment tasks and related information



- b. Online quizzes where answers are released to students on completion, or
- c. Professional assessment tasks, where the intention is to create an authentic assessment that has an absolute submission date, or
- d. Pass/Fail assessment tasks.

### *Marking*

Marking guidelines for assignment submissions will be provided at the same time as assignment details to assist with meeting assessable requirements. Submissions will be marked according to the marking guidelines provided.

### **Examinations**

There will be no final examination for this course during the formal university examination period.

### **Special consideration and supplementary assessment**

If you have experienced an illness or misadventure beyond your control that will interfere with your assessment performance, you are eligible to apply for Special Consideration prior to submitting an assessment or sitting an exam.

**Please note** that UNSW now has a [Fit to Sit / Submit rule](#), which means that if you sit an exam or submit a piece of assessment, you are declaring yourself fit enough to do so and cannot later apply for Special Consideration.

For details of applying for Special Consideration and conditions for the award of supplementary assessment, please see the information on UNSW's [Special Consideration page](#).

## **7. Expected resources for students**

Recommended Textbook(s) [JTE q0000003 0 92 82 reW\\*nBT/F 04f1 0 2Lang \(en\)BDC q0000003 0 92 82](#)

## 8. ~~Feedback and Course Improvement~~

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

In this course, recent improvements resulting from student feedback include reduction in the number of assessments.

## 9.

## 10. Administrative matters and links

All students are expected to read and be familiar with UNSW guidelines and policies. In particular, students should be familiar with the following:

[Attendance](#)

[UNSW Email Address](#)

[Special Consideration](#)

[Exams](#)

[Approved Calculators](#)

[Academic Honesty and Plagiarism](#)

[Equitable Learning Services](#)

## (FA) Competencies

### Stage 1 Competencies for Professional Engineers

	<b>Program Intended Learning Outcomes</b>
<b>PE1: Knowledge and Skill Base</b>	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
<b>PE2: Engineering Application Ability</b>	PE2.1 Application of established engineering methods to complex 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
<b>PE3: Professional and Personal Attributes</b>	PE3.1 Ethical conduct and professional accountability
	PE3.2 Effective oral and written communication (professional and lay domains)
	PE3.3 Creative, innovative and pro