# Course Outlines

# Contents

# 1. Staff contact details

**Contact details and consultation times for course convenor**

Name: Prof Sami Kara
Office location: Room: 301A Ainsworth Building,
Tel: (02) 9385 5757
Email: S.Kara@unsw.edu.au
Moodle: https://moodle.telt.unsw.edu.au/login/index.php
Microsoft Teams Video Chat Hours: Tuesday 5:00pm-6:00pm

There will be Microsoft video chat hours scheduled every Wednesday from 5:00-6:00 pm prior to the online class. Moodle discussion should be used for all course related communication.

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

Name: Gwendolyn Foo
Office location: Room: 301 Ainsworth Building,
Tel: (02) 9385 6851
Email: gwendolyn.foo@unsw.edu.au

Please see the course Moodle.

# 2. Important links
- Moodle
- Lab Access
- Health and Safety
- Computing Facilities
- Student Resources
- Course Outlines
- Engineering Student Support Services Centre
- Makerspace
- UNSW Timetable
- UNSW Handbook

It is expected that assignments will be marked and handed back as soon as possible. You will have feedback and discussion while the assignment is fresh in your mind, to improve the learning experience.

The subject will be presented in the form of online lectures and demonstrations, where it is relevant. Each weekly class will consist of a 1-1.5 hrs. lecture followed by a demonstration example or case study related to the material covered in the lecture. A typical session would consist of a lecture covering the main elements of the topic for the week, interspersed with several individual or group exercises. The following table briefly summarizes the course requirements and the expectations from students in order to succeed in the course.

| Lectures | <ul><li>Find out what you must learn</li><li>Follow worked examples</li><li>Hear announcements on course changes</li><li>Participate in class discussions</li></ul> |
|---|---|
| Assessments | <ul><li>Demonstrate your knowledge and skills</li><li>Demonstrate higher understanding and problem-solving</li></ul> |
| Private Study | <ul><li>Review lecture material</li><li>Complete set problems and assignments</li><li>Reflect on class problems and assignments</li><li>Keep up with announcements and download materials from Moodle</li></ul> |
| Moodle Site | <ul><li>Complete pre-lecture activities to be prepared for class</li><li>Participate in discussion groups</li><li>Access lecture notes and recordings</li></ul> |

5.

| Week | Topic | Delivery Mode | Suggested Readings |
|---|---|---|---|
| 1 | Introduction, Sustainability and Drivers | Online by using Blackboard Ultra in Moodle | Lecture slides and readings on Moodle |

# 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 |
|---|---|---|---|---|---|---|---|---|

**Please note** that UNSW now has a [Fit to Sit / Submit rule](#), which means that if you attempt 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 [Special Consideration page](#).

## 7. Expected resources for students

A list of reference books and reading materials will be provided during the course delivery, some of which can be found in the UNSW Library: https://www.library.unsw.edu.au/

Additional readings will be handed out during each class.

The course will be administered using Moodle. Therefore course administration and some lecture materials may be uploaded to Moodle. Students are advised to use Moodle for class communications.

UNSW Library website: https://www.library.unsw.edu.au/
Moodle: https://moodle.telt.unsw.edu.au/login/index.php

## 8. Course evaluation and development

Feedback on the course is gathered periodically using various means, including the UNSW myExperience
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 revising the course to make it suitable for online delivery.

## 9. Academic honesty and plagiarism

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW students have a responsibility to adhere to this principle of academic integrity. Plagiarism undermines academic integrity and is not tolerated at UNSW. *Plagiarism at UNSW is defined as using the words or ideas of others and passing them off as your own.*

Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. UNSW has produced a website with a wealth of resources to support students to understand and avoid plagiarism, visit: student.unsw.edu.au/plagiarism. The Learning Centre assists students with understanding academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow

*Stage 1 Competencies for Professional Engineers*

|  | **Program Intended Learning Outcomes** |
|---|---|
| **PE1: Knowledge and Skill Base** | 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 |
| **PE2: Engineering Application Ability** | PE2.1 Application of established engineering methods to complex problem solving |
|  | PE2.2 Fluent application of engineering techniques, tools and resources |