



## UNSW Course Outline

# GSOE9820 Engineering Project Management - 2025

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## General Course Information

Course Code : GSOE9820

Year : 2025

Term : Term 1

Teaching Period : T1

Is a multi-term course? : No

Faculty : Faculty of Engineering

Academic Unit : Faculty of Engineering

Delivery Mode : In Person

Delivery Format : Standard

Delivery Location : Kensington

Campus : Sydney

Study Level : Postgraduate

Units of Credit : 6

### Useful Links

[Handbook Class Timetable](#)

## Course Details & Outcomes

### Course Description

This course will introduce to you the fundamental principles of project management in an engineering context, enabling you to become a successful project manager.

## Course Aims

This course takes an integrated approach to managing projects, exploring both technical and managerial challenges. It emphasises not only individual project implementation, but also provides a strategic perspective of how to manage projects at the program and portfolio levels. The course will provide you with a powerful set of tools to improve your ability to plan, implement and manage activities to accomplish specific organisational objectives in often complex and challenging work environments. The Project Management Standards (e.g. PMBOK) are also included in the course in order to comprehensively identify the critical knowledge areas that project managers must understand if they are to become successful managers. The course is also a pathway for Project Management Institute (PMI) certification since the contents of the course, terminologies used and exposure to several real-world cases will support your preparations.

## Course Learning Outcomes

Course Learning Outcomes
CL01 : Translate from organisational strategy into project deliverables
CL02 : Formulate project scope
CL03 : Select and apply project management methods
CL04 : Integrate and justify project plans
CL05 : Evaluate progress and interpret success in projects

Course Learning Outcomes	Assessment Item
CL01 : Translate from organisational strategy into project deliverables	<ul style="list-style-type: none"><li>• Project Management Plan</li><li>• Team Based Learning Activities</li><li>• Individual Knowledge Quiz</li></ul>
CL02 : Formulate project scope	<ul style="list-style-type: none"><li>• Project Management Plan</li><li>• Team Based Learning Activities</li><li>• Individual Knowledge Quiz</li></ul>
CL03 : Select and apply project management methods	<ul style="list-style-type: none"><li>• Project Management Plan</li><li>• Team Based Learning Activities</li><li>• Individual Knowledge Quiz</li></ul>
CL04 : Integrate and justify project plans	<ul style="list-style-type: none"><li>• Interview</li><li>• Project Management Plan</li><li>• Team Based Learning Activities</li><li>• Individual Knowledge Quiz</li></ul>
CL05 : Evaluate progress and interpret success in projects	<ul style="list-style-type: none"><li>• Interview</li></ul>

# Learning and Teaching Technologies

Moodle - Learning Management System | Microsoft Teams

## Other Professional Outcomes

<https://www.unsw.edu.au/engineering/student-life/student-resources/program-design>

## Additional Course Information

The course, and the Course Learning Outcomes (CLO) listed above, are structured according to [Bloom's Taxonomy of Educational Objectives](#), from the most basic to instill Knowledge, moving on to Understanding it, then Applying it and Analysing results, and finally the most challenging which are to Synthesise new knowledge and learn to Evaluate information for ourselves. Thus CLO 1-3 are more basic, while CLO 4 and 5 are the most challenging. The course aims to always provide students with Knowledge and Understanding, before asking students to carry out something more complex like Analysis or Evaluation. Different assignments deal with different kinds of Educational Objectives, such that for example individual quizzes are used to assess Knowledge, while a team assignment assess the integration of a project plan (which is a kind of Synthesis). To achieve high marks in the course students must succeed at all the different kinds of these educational objectives, from the basic ones to the most challenging. The course is a possible pathway for Project Management Institute (PMI) certification since the contents of the course, terminologies used and exposure to several real-world cases will support your preparations. It also provides an opportunity to be considered as a future course demonstrator, who are selected from students in the cohort who achieve a high level of all-round success.

## Assessments

### Assessment Structure

Assessment Item	Weight	Relevant Dates
Project Management Plan Assessment Format: Group	50%	Due Date: Week 3: 03 March - 09 March, Week 7: 31 March - 06 April
Team Based Learning Activities Assessment Format: Group	10%	Due Date: Week 5: 17 March - 23 March, Week 8: 07 April - 13 April, Week 10: 21 April - 27 April
Interview Assessment Format: Individual	20%	Due Date: Week 9: 14 April - 20 April, Week 10: 21 April - 27 April
Individual Knowledge Quiz Assessment Format: Individual	20%	Due Date: Scheduled during exam period

# Assessment Details

## Project Management Plan

### Assessment Overview

**Assessment length:** Approx. 20 pages

In this project assignment, student teams work together to complete an Engineering Project Management Plan (PMP). Feedback is given in stages to help teams check and adjust their work. Students are required to complete a hurdle task where they must present and provide evidence of contribution to the PMP.

The purpose of this task is to ensure all individual students in the group have equally contributed to the PMP to satisfactory standards. The hurdle task is not assessed by marks, however, failure to complete the task will result in an UF grade.

### Assessment criteria

Assessment is by a grading rubric which reflects the course learning outcomes.

### Hurdle requirement

This course will include the following hurdle requirements that are closely linked to a set of learning outcomes which demonstrate that you have acquired the required skills and competencies within this discipline:

- Students must demonstrate sufficient contribution to the PMP to satisfactory standards. Students must present their contributions and submit evidence for the Week 5 PMP Hurdle task in order to pass this subject. Failure to achieve this minimum requirement will result in an unsatisfactory fail (UF) grade, regardless of the performance in the rest of the course.

### Additional details

The PMP is a group assignment. Grades in the group assignment part are individually scaled based on contribution to the team, as verified by the team demonstrator. Students work in groups of 4-6.

### Course Learning Outcomes

- CL01 : Translate from organisational strategy into project deliverables
- CL02 : Formulate project scope
- CL03 : Select and apply project management methods
- CL04 : Integrate and justify project plans

### **Assessment Length**

Approx. 20 pages

### **Assessment information**

Part 1 of the PMP (week 3) is an individual assignment. Part 2 (week 7) is a group assignment. Grades in the group assignment part are individually scaled based on contribution to the team, as verified by the team demonstrator. Students work in groups of 4-6.

### **Generative AI Permission Level**

#### **Simple Editing Assistance**

In completing this assessment, you are permitted to use standard editing and referencing functions in the software you use to complete your assessment. These functions are described below. You must not use any functions that generate or paraphrase passages of text or other media, whether based on your own work or not.

If your Convenor has concerns that your submission contains passages of AI-generated text or media, you may be asked to account for your work. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.

For more information on Generative AI and permitted use please see [here](#).

## **Team Based Learning Activities**

### **Assessment Overview**

Team Based Learning (TBL) activities are graded, timed group assessments that take place during scheduled class or team meeting time. Students must be active and present in the lecture – either in-person or online. Attendance will be marked.

For the first part, students are required to complete a quiz with their assigned groups. For part two, students work in their groups to complete the activities and submit their answers.

#### **Assessment criteria**

Marks are awarded for correct answers. All team members must be present online at the scheduled time and participate in the activities to be awarded marks unless absence is agreed in advance with the team members and the team's demonstrator.

Duration: 24 hours

Feedback: Submitted and marked by Moodle.

### **Course Learning Outcomes**

- CL01 : Translate from organisational strategy into project deliverables
- CL02 : Formulate project scope
- CL03 : Select and apply project management methods
- CL04 : Integrate and justify project plans

### **Generative AI Permission Level**

#### **No Assistance**

This assessment is designed for you to complete without the use of any generative AI. You are not permitted to use any generative AI tools, software or service to search for or generate information or answers.

For more information on Generative AI and permitted use please see [here](#).

## **Interview**

### **Assessment Overview**

Each student will be interviewed by an academic staff member or demonstrator and asked to discuss their group assignment in terms of achieving integration in their project planning and the definition of project success.

Each student group is required to submit a change request based on their PMP. This outcome of the change request is assessed in this individual interview.

#### **Assessment criteria**

Grading is by a rubric that reflects the learning outcomes.

#### **Additional details**

Rescheduling the interview time after its initial selection is not possible except in exceptional circumstances and by approval of the course convener. No-shows in the interview will receive zero marks for the interview.

Duration: 10 mins

Feedback: Interviewed and marked by an academic staff member or demonstrator with immediate feedback

### Course Learning Outcomes

- CL04 : Integrate and justify project plans
- CL05 : Evaluate progress and interpret success in projects

### Generative AI Permission Level

#### **No Assistance**

This assessment is designed for you to complete without the use of any generative AI. You are not permitted to use any generative AI tools, software or service to search for or generate information or answers.

For more information on Generative AI and permitted use please see [here](#).

## **Individual Knowledge Quiz**

### Assessment Overview

The Knowledge Quiz is scheduled during exam time. 50 multiple choice questions must be completed in 60 minutes. The quiz is similar in structure and timing to the well-known Project Management Professional (PMP) exam. The quiz is assessed by right/wrong answers.

Duration: 1 hour

Feedback: Submitted and marked by Moodle.

### Course Learning Outcomes

- CL01 : Translate from organisational strategy into project deliverables
- CL02 : Formulate project scope
- CL03 : Select and apply project management methods
- CL04 : Integrate and justify project plans

### Generative AI Permission Level

#### **No Assistance**

This assessment is designed for you to complete without the use of any generative AI. You are not permitted to use any generative AI tools, software or service to search for or generate information or answers.

For more information on Generative AI and permitted use please see [here](#).

## **General Assessment Information**

\*There is no final exam; however, the Individual knowledge quiz will be scheduled during exam period

## Grading Basis

Standard

# Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 17 February - 23 February	Lecture	Introduction to project management and Scope with Dr Imrana Kabir
Week 2 : 24 February - 2 March	Lecture	Developing scope from functional requirements with Mr Yingbo Sun, Dr Imrana Kabir and Mr Bernard Hayes
Week 3 : 3 March - 9 March	Lecture	Agile and high performance teams with Mr Dylan Sanusi-Goh
	Assessment	Hand in Project WBS
Week 4 : 10 March - 16 March	Lecture	Project Charter with Dr Imrana Kabir Project management in Organisations with Mr Bernard Hayes
Week 5 : 17 March - 23 March	Lecture	Project estimating and scheduling with Bernard Hayes Project Risk Dr Imrana Kabir
	Group Activity	Group practice Moodle quiz
Week 6 : 24 March - 30 March	Workshop	FLEX WEEK - no Lecture Integration workshop with Dr Imrana Kabir and Mr Yingbo Sun
Week 7 : 31 March - 6 April	Group Activity	In-lecture group activity with Bernard Hayes Case study activity - Project controls
	Assessment	Hand in PMP Assignment
Week 8 : 7 April - 13 April	Group Activity	In-lecture group activity with Bernard Hayes Case Study Assessment - Project controls
Week 9 : 14 April - 20 April	Lecture	Successful stories of project management with Mr Ibrahim Dani and Dr Imrana Kabir
	Assessment	Individual interviews
	Assessment	Hand in Project Management Plan (PMP) changes
Week 10 : 21 April - 27 April	Lecture	Review Lecture with Dr Imrana Kabir, Mr Bernard Hayes and Mr Yingbo Sun
	Group Activity	Practice quiz and team quiz (TBL)
	Assessment	Individual interviews

## Attendance Requirements

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

## General Schedule Information

Team Based Learning (TBL) activities are graded group activities that take place during scheduled class time and in some meetings with demonstrators. Students who do not appear (or do not take part at all) will not receive marks for the TBL activities, unless their absence has been agreed in advance with their group and their demonstrator.

## Course Resources

### Prescribed Resources

Project Management Institute, issuing body. A Guide to the Project Management Body of



Knowledge (PMBOK Guide) : and, Agile Practice Guide. Sixth edition. Newtown Square, Pennsylvania: Project Management Institute, 2017.

## Recommended Resources

Additional instructional videos

Linked-in Learning accessed through UNSW: <https://www.myit.unsw.edu.au/services/staff/educational-technology/linkedin-learning>

## Course Evaluation and Development

Feedback on the course is gathered periodically using various means, including the UNSW myExperience process, feedback surveys used through the course, and the School/Student/Staff meetings. Your feedback is taken seriously, and continual improvements are made to the course taking into account such feedback.

Changes made this term to improve online education and assessments

- Improved grading rubrics
- Simpler PMP assignment (3 reduced to 2 steps)
- More controlled grading and questions for interview
- Improved project descriptions according to transparent assessment design.

Successful aspects of the course that have been kept:

- Practical assignment planning a realistic project
- TBL workshop
- Large demonstrator team and many opportunities for personalized support
- Excellence in guest lecturers

## Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Imrana Kabir		Ainsworth Building J17		Consultations available during usual business hours upon request	Yes	Yes

# Other Useful Information

## Academic Information

### I. 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, or within 3 working days of, submitting an assessment or sitting an exam.

Please note that UNSW 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](#).

### II. 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](#)

### III. Equity and diversity

Those students who have a disability that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with the course convener prior to, or at the commencement of, their course, or with the Equity Officer (Disability) in the Equitable Learning Services. Issues to be discussed may include access to materials, signers or note-takers, the provision of services and additional exam and assessment arrangements. Early notification is essential to enable any necessary adjustments to be made.

*Note: This course outline sets out the description of classes at the date the Course Outline is*

*published. The nature of classes may change during the Term after the Course Outline is published. Moodle or your primary learning management system (LMS) should be consulted for the up-to-date class descriptions. If there is any inconsistency in the description of activities between the University timetable and the Course Outline/Moodle/LMS, the description in the Course Outline/Moodle/LMS applies.*

## **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](http://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 sufficient time for research, drafting and the proper referencing of sources in preparing all assessment tasks.

Repeated plagiarism (even in first year), plagiarism after first year, or serious instances, may also be investigated under the Student Misconduct Procedures. The penalties under the procedures can include a reduction in marks, failing a course or for the most serious matters (like plagiarism in an honours thesis or contract cheating) even suspension from the university. The Student Misconduct Procedures are available here:

[www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf](http://www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf)

## **Submission of Assessment Tasks**

Work submitted late without an approved extension by the course coordinator or delegated authority is subject to a late penalty of five percent (5%) for that assessment item.

The late penalty is applied per calendar day (including weekends and public holidays) that the assessment is overdue. There is no pro-rata of the late penalty for submissions made part way through a day. This is for all assessments where a penalty applies.

Work submitted after five days (120 hours) will not be accepted and a mark of zero will be awarded for that assessment item.

For some assessment items, a late penalty may not be appropriate. These will be clearly indicated in the course outline, and such assessments will receive a mark of zero if not completed by the specified date. Examples include:

- Weekly online tests or laboratory work worth a small proportion of the subject mark;
- Exams, peer feedback and team evaluation surveys;
- Online quizzes where answers are released to students on completion;
- Professional assessment tasks, where the intention is to create an authentic assessment that has an absolute submission date; and,
- Pass/Fail assessment tasks.

## **Faculty-specific 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