



ENGG8104

Engineering Project Implementation

Session 1, In person-scheduled-weekday, North Ryde 2023

School of Engineering

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Disclaimer

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General Information

Unit convenor and teaching staff

Unit Convenor

June Ho

june.ho@mq.edu.au

School of Engineering, 50 Waterloo Road

Arrange via email

Credit points

10

Prerequisites

Admission to MEngMgt

Corequisites

Co-badged status

Unit description

This unit provides students with advanced knowledge and skills needed to successfully deliver a project. The subject matter covered is suitable for a broad range of engineering disciplines with an emphasis on building advanced skills in engineering project management. This is a core unit for the Master of Engineering Management program that delivers coherent learning skills with other units that can help students with advanced knowledge for effective leadership and management in engineering projects.

The context and the main model of this course follows the application of International Project Management Body of Knowledge Guideline. This course will prepare students with competencies to implement engineering projects in a range of industries. Furthermore, it provides knowledge of challenges and trends in modern project management practices including consulting engineering projects.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

On successful completion of this unit, you will be able to:

ULO1: Employ a wide range of engineering project management techniques and tools needed for successful project implementation. Identify any issues in engineering project

management practices and provide solutions that enable successful completion of the project according to stakeholders' requirements

ULO2: Explore current practices and modern trends in project management

ULO3: Describe the management fundamentals with regard to consulting engineering practice and management

ULO4: Demonstrate the ability to think critically, to solve problem, and to work in team

General Assessment Information

Requirements to Pass this Unit

To pass this unit you must: Achieve a total mark equal to or greater than 50%.

Late Assessment Penalties

Penalties only apply to written assessments or recordings that are uploaded onto iLearn. They do NOT apply to weekly quizzes, time-sensitive or timetabled/scheduled assessments.

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the total possible mark of the task) will be applied for each day a written report or presentation assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of '0' will be awarded even if the assessment is submitted. The submission time for all uploaded assessments is 11:55 pm. A 1-hour grace period will be provided to students who experience a technical concern.

For any late submission of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, please apply for [Special Consideration](#).

Assessments where Late Submissions will be accepted

Group assignment – YES, Standard Late Penalty applies

Individual assignment (Quiz) - NO, unless Special Consideration is Granted

Special Consideration

The [Special Consideration Policy](#) aims to support students who have been impacted by short-term circumstances or events that are serious, unavoidable and significantly disruptive, and which may affect their performance in assessment. If you experience circumstances or events that affect your ability to complete the assessments in this unit on time, please inform the convenor and submit a Special Consideration request through ask.mq.edu.au.

Assessment Tasks

Name	Weighting	Hurdle	Due
Final exam	30%	No	Exam week - TBA

Name	Weighting	Hurdle	Due
Individual assessment	30%	No	Week 4,8,11
Group assignment	40%	No	Week 13

Final exam

Assessment Type ¹: Examination

Indicative Time on Task ²: 20 hours

Due: **Exam week - TBA**

Weighting: **30%**

Written exam

On successful completion you will be able to:

- Employ a wide range of engineering project management techniques and tools needed for successful project implementation. Identify any issues in engineering project management practices and provide solutions that enable successful completion of the project according to stakeholders' requirements
- Explore current practices and modern trends in project management
- Describe the management fundamentals with regard to consulting engineering practice and management
- Demonstrate the ability to think critically, to solve problem, and to work in team

Individual assessment

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 30 hours

Due: **Week 4,8,11**

Weighting: **30%**

Quiz or short answer

On successful completion you will be able to:

- Employ a wide range of engineering project management techniques and tools needed for successful project implementation. Identify any issues in engineering project

management practices and provide solutions that enable successful completion of the project according to stakeholders' requirements

- Explore current practices and modern trends in project management
- Describe the management fundamentals with regard to consulting engineering practice and management
- Demonstrate the ability to think critically, to solve problem, and to work in team

Group assignment

Assessment Type ¹: Essay

Indicative Time on Task ²: 40 hours

Due: **Week 13**

Weighting: **40%**

An essay on given topics in engineering project implementation practices.

On successful completion you will be able to:

- Employ a wide range of engineering project management techniques and tools needed for successful project implementation. Identify any issues in engineering project management practices and provide solutions that enable successful completion of the project according to stakeholders' requirements
- Explore current practices and modern trends in project management
- Describe the management fundamentals with regard to consulting engineering practice and management
- Demonstrate the ability to think critically, to solve problem, and to work in team

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

Communication will be made via your university email or through announcements on iLearn.

Queries to convenors can either be placed on the iLearn discussion board or sent to unit

convener's email address.

For the latest information on the University's response to COVID-19, please refer to the Coronavirus infection page on the Macquarie website: <https://www.mq.edu.au/about/coronavirus-faqs>. Remember to check this page regularly in case the information and requirements change during semester. If there are any changes to this unit in relation to COVID, these will be communicated via iLearn.

Unit Schedule

Please refer to iLearn page.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies \(https://students.mq.edu.au/support/study/policies\)](https://students.mq.edu.au/support/study/policies). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing and maths support](#), [academic skills development](#) and [wellbeing consultations](#).

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

The Writing Centre

[The Writing Centre](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Workshops](#)
- [Chat with a WriteWISE peer writing leader](#)
- [Access StudyWISE](#)
- [Upload an assignment to Studiosity](#)
- [Complete the Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)
- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)
- [Student Advocacy](#) provides independent advice on MQ policies, procedures, and processes

Student Enquiries

Got a question? Ask us via [AskMQ](#), or contact [Service Connect](#).

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Changes from Previous Offering

Updated topics for the group assignment.