

# ENGR 2010 ENGINEERING PROJECT (WSTC ASSOCD)

**Credit Points** 10

**Legacy Code** 700110

**Coordinator** Abbas Ranjbar ([https://directory.westernsydney.edu.au/search/name/Abbas Ranjbar/](https://directory.westernsydney.edu.au/search/name/Abbas%20Ranjbar/))

**Description** In this unit, students will use project management tools, techniques and practices to plan and control a project that achieves stated requirements on time and within budget. Students will plan a project including the creation of a statement of work, a work breakdown structure and an appropriate set of supporting work packages.

**School** Eng, Design & Built Env

**Discipline** Other Engineering And Related Technologies

**Student Contribution Band** HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/fees/](https://www.westernsydney.edu.au/currentstudents/current_students/fees/)) page.

**Level** Undergraduate Level 2 subject

**Pre-requisite(s)** ENGR 2018 OR ENGR 2031

## Restrictions

Students must be enrolled at The College in 7022 Associate Degree in Engineering. Student must have completed at least 100 Credit Points in their Associate Degree in Engineering Program prior to enrolling in the 700110 Engineering Project (WSTC AssocD).

## Learning Outcomes

On successful completion of this subject, students should be able to:

1. Apply the theoretical knowledge gained during the subject to develop practical and innovative engineering solutions.
2. Apply the project management principles to an engineering project.
3. Recognise the importance of client/end-user consultation and satisfaction and good oral presentation and engineering report writing skills.
4. Familiarise themselves with ethical, social, economical and environmental responsibilities of an engineer.
5. Use time and cost management tools and knowledge to plan and control the engineering project.
6. Demonstrate the methods/practices of carrying out systematic engineering project management.

## Subject Content

This unit is designed to provide engineering students with the opportunity to create and manage an engineering project with the integration and application of the knowledge and skills of engineering project management. The detailed contents are described as follows:

1. Project brief, assignment, tasks and assessment brief
2. Achieving the primary project objectives: Time, cost, quality and safety
3. Defining the project scope and Planning project activities/tasks
4. Application of project scheduling skills
5. Issues in scheduling and use of MS project
6. Application of financial management skills

7. Application of resources allocation skills
8. Application of project monitoring and control skills
9. Updating master schedule
10. Project quality management planning
11. Project risk management planning
12. Project safety, health and environment management planning
13. Post project reviews

## Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Type	Length	Percent	Threshold	Individual/Group Task
Report	Min 3,000 words / group (excluding appendices and annexures)	30	N	Both (Individual & Group)
Quiz	20 minutes each	20	N	Individual
Presentation	Usually 20 minutes are to be assigned per group with 5 minutes for Q&A at the end	15	N	Group
Report	Min 5,000 words (excluding appendices and annexures)	35	N	Individual contributions to be specified in the report

## Prescribed Texts

- Kloppenborg, T.J. (2009). Contemporary Project Management. USA: South-Western Cengage Learning
- Koppenborg, TJ 2019, Contemporary project management : organize, lead, plan, perform, 4th edn, Cengage Learning, Boston, MA.

## Teaching Periods

## Quarter 3 (2022)

### Nirimba Education Precinct

#### Composite

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View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=ENGR2010\\_22-Q3\\_BL\\_C#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=ENGR2010_22-Q3_BL_C#subjects))

## Quarter 3 (2023)

### Nirimba Education Precinct

#### Hybrid

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