

Course Outline (Higher Education)

School:	School of Science, Engineering and Information Technology
Course Title:	ENGINEERING PROJECT EXECUTION
Course ID:	ENGIN5210
Credit Points:	15.00
Prerequisite(s):	Nil
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED:	039999

Description of the Course :

In this course, students will explore the principles and develop the distinct technical skills of engineering project management that are needed to implement a project. Students who are wishing to establish a career in project management will receive particular benefits from this course.

Grade Scheme: Graded (HD, D, C, etc.)

Work Experience:

No work experience: Student is not undertaking work experience in industry.

Placement Component: No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the course but gained a final mark of 45 per cent or above and submitted all major assessment tasks..

Program Level:

AQF Level of Program						
	5	6	7	8	9	10
Level						
Introductory	■	■	■	■	■	■
Intermediate	■	■	■	■	■	■
Advanced	■	■	■	■	✓	■

Learning Outcomes:

Knowledge:

- K1.** Interpret and manage the impact of human resources, professional relationships, organisational culture and ethics on projects.

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- K2.** Reflect on and analyse the need for competency and ethical standards that are required for the profession of project management practice

Skills:

- S1.** Critique project procurement management and project risk management.
- S2.** Evaluate and manage the relationship between risk, ethics, and enterprise and their impact on project execution and completion.

Application of knowledge and skills:

- A1.** Utilise, analyse and contrast the various project management techniques to enable execution in a timely and financially prudent manner
- A2.** Evaluate issues in project management practices with regard to execution strategies, risk management, relationships and leadership.

Course Content:

Topics will include:

- Project execution strategies
- Risk management
- Engineering ethics
- Engineering and enterprise
- Positive relationships
- Project leadership
- Monitoring and evaluation of project

Values:

- V1.** Recognise the importance of protocols and innovative methods for communicating, controlling and monitoring projects and performance.
- V2.** Appreciate team work and reflect on how the team can improve its performance

Graduate Attributes:

FedUni graduate attributes statement. To have graduates with knowledge, skills and competence that enable them to stand out as critical, creative and enquiring learners who are capable, flexible and work ready, and responsible, ethical and engaged citizens.

Attribute	Brief Description	Focus
Knowledge, skills and competence	Upon successful completion of this course it is expected that graduates will be able to refresh some aspects of their academic training or embark on a new aspect of training in project implementation.	High
Critical, creative and enquiring learners	Development of independent, critical and creative learners is an essential feature of engineering education. Assessments tasks are individualised, so students need to rely on their personal efforts to arrive at their conclusions.	High

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Attribute	Brief Description	Focus
Capable, flexible and work ready	A sound understanding of resource planning are an essential part of any modern society. Successful students will add to the productive capacity of the economy.	High
Responsible, ethical and engaged citizens	Students are made aware that the engineer does not work in insolation, but is part of a wider community that includes many stakeholders, some of which may have no technical knowledge of what the engineer does. An awareness of community as a responsible, ethical and engaged citizen is important when finding a managerial solution.	High

Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1-2, S1-2, A1-2	Problem based task on project execution strategies, risk management and ethics.	Assignment	20 - 40%
K1-2, S1-2, A1-2	Group based research activity into positive relationship building and visionary leadership.	Report	30 - 50%
K1-2, S1-2, A1-2	Problem based questions and oral presentations.	Report and oral presentation	20 - 40%

Adopted Reference Style:

Other (IEEE)