

Course Outline (Higher Education)

School: School of Science, Engineering and Information Technology

Course Title: ENGINEERING PROJECT RESOURCE PLANNING

Course ID: ENGIN5209

Credit Points: 15.00

Prerequisite(s): Nil

Co-requisite(s): Nil

Exclusion(s): Nil

ASCED: 039999

Description of the Course:

This course provides students with the insights, knowledge and skills necessary for providing professional engineering input into resource and quality managment programs in an business environment. It covers project governance, quality control and quality assurance and organisational planning. The best practices for resource management and staff acquisition will be explored.

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					V		

Learning Outcomes:

Knowledge:

K1. Undertake project definition, project planning and project implementation using key tools and techniques for effective project management.

Course Outline (Higher Education)

ENGIN5209 ENGINEERING PROJECT RESOURCE PLANNING

K2. Appraise and infer the effective and efficient practices for process monitoring, quality control and assurance.

Skills:

- **S1.** Critically analyse strategic quality control practices and their application to organisational realities.
- **S2.** Critique the terminology, tools, techniques, and processes in project management.

Application of knowledge and skills:

- **A1.** Utilise and engage with the fundamental tools in strategic human resource management including the planning, development, implementation and evaluation of HR activities.
- **A2.** Assess team dynamics and reflect on team performance improvement techniques.

Course Content:

Topics will include:

- Project governance
- Financial management
- Time management
- Monitoring the change control process
- Quality assurance
- Quality control
- Resource management
- Organisational planning
- Staff acquisition and team development

Values:

- **V1.** Recognise the importance of quality control and monitoring practices in project management.
- **V2.** Appreciate and utilise the strategies and tools for staff acquisition and development.

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	Resource management is an important area which has implications in our every-day life. Students will gain knowledge and develop an appreciation to apply them in real life.	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.	

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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 or act in isolation, 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 governance and control processes.	Assignment	20 - 40%
K1-2, S1-2, A1-2	Group based research activity into current practices in quality control and assurance.	Report	30 - 50%
K1-2, S1-2, A1-2	Problem based questions and oral presentation on organisational planning and/or strategic human resources techniques and activities.	Report and oral presentation	20 - 40%

Adopted Reference Style:

Other (IEEE)