

Course Outline (Higher Education)

School:	School of Science, Engineering and Information Technology
Course Title:	ENGINEERING CONTRACTS AND PROCUREMENT
Course ID:	ENGIN5206
Credit Points:	15.00
Prerequisite(s):	Nil
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED:	039999

Description of the Course :

This course covers the preparation of engineering contracts to deliver and procure engineering outcomes. Students will develop a knowledge of relevant contract law, market analysis, tenders and work breakdown structure. Engineers in most fields will have to work with contracts at some point in their career thus the content of this course will be directly applicable to everyone.

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.** Evaluate the critical factors influencing contract development and recommend the best conditions.

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K2. Infer the importance of work breakdown structure in preparation of contracts.

Skills:

S1. Analyse the current market situation and make appropriate predictions relevant to proposed projects.

S2. Prioritize planned activities and manage the cash flow throughout the project.

Application of knowledge and skills:

A1. Reflect on the development of competitive contracts which ensure procurement and stakeholder satisfaction.

A2. Utilise the role of managers for effective commercial management of projects.

Course Content:

Topics will include:

- Commercial management of engineering projects
- Role and responsibilities of managers
- Contract law
- Market analysis
- Planning procurement options
- Development of contracts
- Tenders and work breakdown structure
- Cash flow management

Values:

V1. Recognise the stakeholder interests in engineering contracts and understand the challenges in procurement.

V2. Appreciate the importance of work breakdown structure and market analysis for engineering contracts.

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	The practical exercises, which link theory to the real world, and the problem-solving nature of the tutorial problems in this course, will enhance students' motivation, skills and confidence to engage in continuous learning.	High
Critical, creative and enquiring learners	Students are required to use specialised discipline knowledge, exercise critical and independent analysis of contract and tender development with a focus on accurate and feasible market analysis.	High

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Attribute	Brief Description	Focus
Capable, flexible and work ready	A sound understanding of cash flow are an essential part of any project. Successful students will add to the productive capacity of the economy and be in demand by many employers across the public and private sectors.	Medium
Responsible, ethical and engaged citizens	Underpinning the content of this course is an emphasis on the importance of contracts in the development and execution of engineering projects and the consequent need for accuracy and ethical behaviour.	Medium

Learning Task and Assessment:

Learning Outcomes Assessed	Learning Tasks	Assessment Type	Weighting
K1-2, S1-2, A1-2	Problem based questions and design tasks pertinent to commercial management of projects	Assignment	20 - 40%
K1-2, S1-2, A1-2	Work breakdown structure and tenders	Assignment	20 - 40%
K1-2, S1-2, A1-2	A combination of quantitative and qualitative problems.	Examination	40 - 60%

Adopted Reference Style:

Other (IEEE)