ENGM90006 Engineering Contracts and Procurement

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	This subject is not offered in 2013.
Time Commitment:	Contact Hours: 36 hours, comprising of two hours of lectures and one 1-hour tutorial per week Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	Knowledge from the following subject will assist with learning in this subject:

Subject	Study Period Commencement:	Credit Points:
CVEN90045 Engineering Project Implementation	Not offered 2013	12.50

Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability
Contact:	Assoc Prof Colin Duffield **colinfd@unimelb.edu.au (mailto:colinfd@unimelb.edu.au)**
Subject Overview:	Commercial management of engineering projects including the role and responsibilities of corporate managers, market analysis, structuring of procurement options, development of contractual terms and conditions, the pricing of work Estimating and tendering engineering construction works via work breakdown structures, work method statements, risk identification and tendering principles. Contract administration and project control functions and techniques including time and money negotiations and cash flow management are also covered through the use of detailed case study material
Objectives:	On successful completion of this subject students should be able to: # Assess the commercial viability of engineering projects # Select an appropriate procurement strategy for a particular project # Be capable of interpreting the scope and meaning of contract documents for the delivery of engineering projects # Identify and manage risks and opportunities inherent in construction projects # Conduct first principles cost estimating and tendering processes for a construction contractor # Administer and manage contracts based on Australian General Conditions of Contract # Describe dispute resolution mechanisms in the construction industry

Assessment:	One 2-hour written examination, end of semester (50%) One assignment of up to 3000 words, progressively completed during the semester (45%) Participation in simulation exercise, during over the semester (5%)
Prescribed Texts:	None
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	# Ability to undertake problem identification, formulation, and solution # Ability to utilise a systems approach to complex problems and to design and operational performance # Ability to communicate effectively with the engineering team and with the community at large # Ability to manage information and documentation # Understanding of professional and ethical responsibilities, and commitment to them # Ability to function effectively as an individual and in multidisciplinary and multicultural teams, as a team leader or manager as well as an effective team member # Capacity for lifelong learning and professional development
Related Course(s):	Bachelor of Engineering (Civil Engineering) Master of Engineering Management Master of Engineering Management Master of Engineering Project Management Master of Engineering Project Management Master of Engineering Structures Master of Engineering Structures Master of Environmental Engineering Master of Environmental Engineering Master of Philosophy - Engineering Ph.D.- Engineering Postgraduate Certificate in Engineering
Related Majors/Minors/ Specialisations:	B-ENG Civil Engineering stream Master of Engineering (Civil)