ENGM90006 Engineering Contracts and Procurement

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	This subject is not offered in 2011.
Time Commitment:	Contact Hours: Lectures: 2 hours per week. Tutorials: 1 hour per week. Total: 36 hours per semester 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 2011	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 Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.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: # able to assess the commercial viability of engineering projects # be able to select an appropriate procurement strategy for a particular project # capable of interpreting the scope and meaning of contract documents for the delivery of engineering projects # able to identify and manage risks and opportunities inherent in construction projects # able to conduct first principles cost estimating and tendering processes for a construction contractor # able to administer and manage contracts based on Australian General Conditions of Contract # able to 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):	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 Postgraduate Certificate in Engineering
Related Majors/Minors/ Specialisations:	B-ENG Civil Engineering stream Master of Engineering (Civil)