CVEN90045 Engineering Project Implementation

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 48 hours (Lectures: 2 hours per week, Tutorials: 1 hour per week, Consultations: 1 hour per week) per semester Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	Knowledge gained in the following subjects will assist learning

Subject	Study Period Commencement:	Credit Points:
CVEN90043 Sustainable Infrastructure Systems	Semester 1	12.50
CVEN90044 Engineering Site Characterisation	Semester 1	12.50

Non Allowed Subjects: No credit will be given for the following subject if undertaking this subject

Subject	Study Period Commencement:	Credit Points:
ENGM40001 Management for Engineers 3	Not offered 2012	12.50

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
Coordinator:	Dr Lihai Zhang
Contact:	Dr Lihai Zhang **lihzhang@unimelb.edu.au (mailto:lihzhang@unimelb.edu.au)**
Subject Overview:	Project management provides an organization with powerful tools that improve its ability to plan, organize and manage resources to bring about the successful completion of specific project goals and objectives. In undertaking this subject students will explore the principles and distinct technical skills of engineering management that are needed to implement a project Topics covered include key aspects of the management principles, project planning & scheduling, management systems & control and management practices to enable execution of the project in a timely and financially prudent manner
Objectives:	On completion of this subject students should be able to: # Utilise a range of management techniques, such as critical path method, program evaluation & review, time-cost optimisation, earned value and resource levelling, to enable execution of a project in a timely and financially prudent manner # Describe the management principles with regard to project management process, organisation structure, professional ethics and Occupational, Health and Safety # Explore issues in management practices with regard to building clients and stakeholders' requirements, consulting engineering practice and management, specification preparation, and professional documentation

	# Identify key issues in management systems and control with regard to quality management in the framework of ISO9000 series
Assessment:	One 2-hour examination, end of semester (60%)Two assignments totalling 3000 words, due mid-semester and end of semester (30%) Attendance and contribution to discussion in tutorials during semester (10%)
Prescribed Texts:	Management for Engineers (Danny Sampson) 3rd Edition LongmanProgramming and Scheduling Techniques (Tomas E Uher) UNSW Press
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 conduct an engineering project # 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 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 Spatial Information Science Postgraduate Certificate in Engineering
Related Majors/Minors/ Specialisations:	B-ENG Civil Engineering stream Master of Engineering (Civil) Master of Engineering (Environmental) Master of Engineering (Geomatics) Master of Engineering (Structural)