CVEN90045 Engineering Project Implementation

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: One 2 hour lecture and 1 hour tutorial or computer laboratory/week. Total 36 hours Total Time Commitment: 120 hours for the semester
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	Both subjects are first offered in 2010

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	Semester 1	12.50

Students who have completed the following subject are not allowed to take 421-502 (CVEN90045):

421-255 (Engineering Management 1)

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/
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Contact:	Melbourne School of Engineering Ground Floor Old Engineering Building #173 The University of Melbourne VIC 3010 AUSTRALIA General telephone enquiries + 61 3 8344 6703 + 61 3 8344 6507 Facsimiles + 61 3 9349 2182 + 61 3 8344 7707 Email: **eng-info@unimelb.edu.au (mailto:eng-info@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:	At the end 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 system and control with regard to quality management in the framework of ISO9000 series.
Assessment:	2-hour end of semester examination (60%)Assignments totalling 3000 words. First assignment due mid-semester, second assignment due 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 Bachelor of Engineering (Civil) and Bachelor of Arts Bachelor of Engineering (Civil) and Bachelor of Commerce Bachelor of Engineering (Civil) and Bachelor of Laws Bachelor of Engineering (Civil) and Bachelor of Science Bachelor of Engineering (Environmental) and Bachelor of Laws 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