ENGR90027 Engineering Project

Credit Points:	25
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Year Long, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 2 hours per week of supervisor consultation for 24 weeks Total Time Commitment: 400 hours
Prerequisites:	Enrolment in an engineering masters level coursework degree at the University of Melbourne. Additionally, a selection interview will be conducted for all students. NOTE: Students enrolling in this subject are not permitted to do so as part of a course overload enrolment.
Corequisites:	None
Recommended Background Knowledge:	None
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
Coordinator:	Prof Andrew Western
Contact:	Prof Andrew Western **a.western@unimelb.edu.au (mailto:a.western@unimelb.edu.au)**
Subject Overview:	**AIMS** This subject aims to give students practical experience in engineering project management with a whole-of-cycle experience including: project management, stakeholder management and communications and publicity. Engineering projects undertaken by students may incorporate one or more of the following elements: # Engineering case-study with a focus on delivering specific outcomes as agreed between key stakeholders; # Management of complex project(s) with clearly defined overall objectives and expected outcomes but involving multiple student groups focusing on sub-projects and external stakeholders; # Management and coordination of large scale engineering events incorporating a range of activities such as engineering exhibits, public events and seminars involving diverse stakeholders. Students enrolled in the subject will work as a group of between 2 and 12 students to manage sufficiently complex engineering projects and activities, completing the requirements as specified by an academic supervisor. Students will undertake a range of activities that may include, but are not necessarily limited to: # Engineering case-studies; # Engineering project management;

	# Engineering event management including exhibition and other public events drawing multiple stakeholders; # Stakeholder management; # Budgeting and financial management; # Overall logistics and coordination; # Management of public relations, publicity and marketing **INDICATIVE CONTENT** Topics include: Project planning and management, stakeholder management, community engagement activities, marketing and sponsorship.
Learning Outcomes:	**INTENDED LEARNING OUTCOMES (ILO)** Having completed this subject it is expected that the student be able to: 1 Demonstrate the ability to work effectively within a team to plan and manage an engineering project, including case-studies, complex projects involving a range of sub-projects, and/or engineering events such as exhibitions and community engagement activities. 2 Demonstrate skills in managing key stake-holder expectations, financial management and external communications.
Assessment:	One group written report of up to 1,500 words per student (approximately 30-35 hours of work per student) due in the mid-year examination period, 15%; One group oral presentation of up to 10 minutes duration per student (approximately 13-15 hours of work per student), in the mid-year examination period, 5%; One group public presentation of the project work towards the end of the second semester (approximately 25-30 hours of work per student), 10%; One group written report of up to 5,000 words per student due in the end of-year examination period, (approximately 150-180 hours of work per student), 60%; One group oral presentation of up to 15 minutes duration per student, in the end of-year examination period (approximately 25-30 hours of work per student), 10%. Intended Learning Outcomes (ILOs) 1 and 2 are assessed in the group written reports, oral presentations and public presentation.
Prescribed Texts:	None
Recommended 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:	The subject will enhance the following generic skills: # The ability to undertake problem identification, formulation and solution # The ability to communicate effectively orally and in writing # The ability to plan work and use time effectively # Understanding the professional and ethical responsibilities of an engineer # Understanding of the principles of sustainable design and development # Ability and self-confidence to comprehend complex concepts, to express them lucidly and to confront unfamiliar problems.
Notes:	**LEARNING AND TEACHING METHODS** Supervisor consultations and on-the-job learning. **INDICATIVE KEY LEARNING RESOURCES** Students are provided with regular supervisor consultations. **CAREERS / INDUSTRY LINKS** Most projects that are offered involve liaising with industry or schools.