

## ENGR90027 Engineering Project

<b>Credit Points:</b>	25
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	2012, Parkville This subject commences in the following study period/s: Year Long, Parkville - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 2 hours per week of supervisor consultation for 24 weeks Total Time Commitment: 240 hours
<b>Prerequisites:</b>	Enrolment in a masters level coursework degree at the University of Melbourne. Additionally, a selection interview will be conducted for all students.
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	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 Overview, Objectives, 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 the Disability Liaison Unit: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Coordinator:</b>	Assoc Prof David Grayden
<b>Contact:</b>	Assoc Prof David Grayden Email: <a href="mailto:grayden@unimelb.edu.au">grayden@unimelb.edu.au</a> ( <a href="mailto:grayden@unimelb.edu.au">grayden@unimelb.edu.au</a> )
<b>Subject Overview:</b>	<p>This subject aims to give students practical experience in carrying out engineering projects with a whole-of-cycle experience including: project management, stake holder management and communications and publicity. Engineering projects undertaken by students may incorporate one or more of the following elements:</p> <ul style="list-style-type: none"> <li># Engineering case-study with a focus on delivering specific outcomes as agreed between key stakeholders;</li> <li># 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;</li> <li># Management and coordination of large scale engineering events incorporating a range of activities such as engineering exhibits, public events and seminars involving diverse stakeholders.</li> </ul> <p>Students enrolled in the subject will work as a group of between 3 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,</p> <ul style="list-style-type: none"> <li># Engineering case-studies;</li> <li># Engineering project management;</li> <li># Engineering event management including exhibition and other public events drawing multiple stakeholders;</li> <li># Stakeholder management;</li> <li># Budgeting and financial management;</li> <li># Overall logistics and coordination;</li> <li># Management of publicity and public relations.</li> </ul>

<b>Objectives:</b>	<ul style="list-style-type: none"> <li># To provide students with problem-based learning experience in managing engineering projects including case-studies, complex projects involving a range of sub-projects and/or engineering events such as exhibitions and public events.</li> <li># To prepare students for planning and managing engineering projects with a range of stake holders.</li> <li># To demonstrate skills in managing key stake-holder expectations, budgeting and financial management and publicity and external communications.</li> </ul>
<b>Assessment:</b>	One group written report of up to 5000 words, in the mid-year examination period, worth 20%; One group written report of up to 5000 words, in the end of-year examination period, worth 60%; One group oral presentation of up to one hour duration, in the end of-year examination period, worth 20%.
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<ul style="list-style-type: none"> <li># The subject will enhance the following generic skills:</li> <li># The ability to undertake problem identification, formulation and solution;</li> <li># Capacity for independent thought;</li> <li># The ability to communicate effectively orally and in writing;</li> <li># The ability to plan work and use time effectively;</li> <li># Understanding the professional and ethical responsibilities of an engineer;</li> <li># Understanding of the principles of sustainable design and development;</li> <li># Ability and self-confidence to comprehend complex concepts, to express them lucidly and to confront unfamiliar problems.</li> </ul>
<b>Related Majors/Minors/Specialisations:</b>	Master of Engineering (Mechanical)