

ELEN90070 Electrical Engineering Capstone ProjectA

Credit Points:	12.50														
Level:	9 (Graduate/Postgraduate)														
Dates & Locations:	This subject is not offered in 2013.														
Time Commitment:	Contact Hours: 12 one-hour lectures in semester 1. Total Time Commitment: 300 hours														
Prerequisites:	<p>Prerequisites for students enrolled in BE degree are:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ELEN30013 Electronic System Implementation</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table> <p>AND ANY three other study-level 3 Electrical Engineering subjects.</p> <p>Prerequisites for students enrolled in ME degree are:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ELEN90066 Embedded System Design</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table> <p>AND ANY three other study-level 9 Electrical Engineering subjects.</p>			Subject	Study Period Commencement:	Credit Points:	ELEN30013 Electronic System Implementation	Not offered 2013	12.50	Subject	Study Period Commencement:	Credit Points:	ELEN90066 Embedded System Design	Not offered 2013	12.50
Subject	Study Period Commencement:	Credit Points:													
ELEN30013 Electronic System Implementation	Not offered 2013	12.50													
Subject	Study Period Commencement:	Credit Points:													
ELEN90066 Embedded System Design	Not offered 2013	12.50													
Corequisites:	None														
Recommended Background Knowledge:	None														
Non Allowed Subjects:	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ELEN90067 Electrical Engineering Capstone Project</td> <td>Not offered 2013</td> <td>25</td> </tr> <tr> <td>ELEN40012 Project Work</td> <td>Not offered 2013</td> <td>25</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	ELEN90067 Electrical Engineering Capstone Project	Not offered 2013	25	ELEN40012 Project Work	Not offered 2013	25			
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ELEN90067 Electrical Engineering Capstone Project	Not offered 2013	25													
ELEN40012 Project Work	Not offered 2013	25													
Core Participation Requirements:	<p><p>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.</p> <p>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</p></p>														
Contact:	email: ewey@unimelb.edu.au (mailto:ewey@unimelb.edu.au)														
Subject Overview:	<p>This subject provides students with the opportunity to integrate technical knowledge and generic skills gained in earlier years. This is to be achieved within the context of an engineering project conducted in a small team (typically two or three students) under the supervision of either a member of academic staff or an industry partner. The project component of this subject is supplemented by a lecture course dealing with project management tools and practices, organisational structures, engineering standards and the social and environmental responsibility of professional engineers.</p> <p>Note: Enrolment in ELEN90070 Electrical Engineering Capstone Project A is subject to approval from the subject coordinator. ELEN90070 Electrical Engineering Capstone Project</p>														

	<i>A is of year-long duration, students commence this subject in Semester 2 and continue in the consecutive semester (Semester 1 in the following year). Upon successful completion of this project, students will receive 25 points credit. Students wishing to undertake this subject, should also complete the lecture component of the subject in Semester 1 in the following year.</i>
Objectives:	<p>On completing this subject the student should be able to:</p> <ul style="list-style-type: none"> # Conduct an electrical engineering project; # Effectively communicate the outcomes of various stages of an engineering project; # Apply standard engineering project management tools; # Identify standard organisational structures and the relative merits of different approaches; <p>Describe the role of standards in engineering projects.</p>
Assessment:	<p>Individual continuous assessment of the lecture component of the subject, comprising submitted work not exceeding 25 pages over semester 1, worth 25%, During semester 1. Individual oral assessment of project progress and outcomes towards the end of semester 1, worth 10%, due towards the end of semester 1. A group oral presentation of the project outcomes towards the end of semester 1, worth 10%, due towards the end of semester 1. A preliminary report not exceeding 40 pages due two weeks before the oral presentation, worth 5%, due towards the end of semester 1. A group report not exceeding 50 pages (excluding appendices) due at the end of semester 1, worth 50%, due end of semester 1. In order to pass the subject the students must receive a mark of at least 37.5 out of 75 for the components related to the individual projects (i.e. the individual oral assessment, the group oral presentation, the preliminary report and the final report).</p>
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:	<ul style="list-style-type: none"> # Ability to communicate effectively, not only with engineers but also with the community at large # In-depth technical competence in at least one engineering discipline # Ability to undertake problem identification, formulation and solution # Ability to utilise a systems approach to design and operational performance # Ability to function effectively as an individual and in multidisciplinary and multi-cultural teams, with the capacity to be a leader or manager as well as an effective team member # Understanding of the social, cultural, global and environmental responsibilities of the professional engineer, and the need for sustainable development # Capacity for independent critical thought, rational inquiry and self-directed learning # Intellectual curiosity and creativity, including understanding of the philosophical and methodological bases of research activity # Openness to new ideas and unconventional critiques of received wisdom
Related Majors/Minors/Specialisations:	Master of Engineering (Electrical)