CVEN90021 Research Project

Credit Points:	50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: As arranged between student and supervisor Total Time Commitment: 600 hours per semester
Prerequisites:	The prerequisite for this subject is

Subject	Study Period Commencement:	Credit Points:
CVEN90020 Research Topic	Semester 1, Semester 2	12.50

Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Credit will not be given for the following subject when enrolled in this subject

Subject	Study Period Commencement:	Credit Points:
CVEN90022 Research Investigation	Semester 1, Semester 2	25

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/
Coordinator:	Assoc Prof Jeffrey Walker, Dr Tuan Ngo, Prof Hector Malano
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:	On conclusion of their project, students should have an appreciation of procedures involved in conducting research and have gained experience in scientific writing and in delivering an oral presentation. The subject includes supervision of methodology development, analysis and reporting of more in-depth research investigation into the topic commenced during 421-642 or 421-643.
Objectives:	At the end of this subject, students should be able to # Search, analyse and document engineering science and other literature in order to determine the need for further research in a chosen area # Devise a methodology of investigation to improve knowledge or understanding of a chosen topic

	# Collect and analyse a range of data (both qualitative and quantitative) and/or undertake model simulation to improve understanding of a chosen topic # Write a research thesis that follows good engineering science practice # Write a conference paper # Orally present on the investigation to a audience of peers
Assessment:	One end-of-semester bound thesis up to a total of 16000 words (70%)One 45 minute oral examination (30%)
Prescribed Texts:	N/A
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 apply knowledge of basic science and engineering fundamentals # 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 # Understanding of professional and ethical responsibilities and commitment to them # Expectation of the need to undertake lifelong learning, capacity to do so # 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 # Profound respect for truth and intellectual integrity, and for the ethics of scholarship # International awareness and openness to the world, based on understanding and appreciation of social and cultural diversity and respect for individual human rights and dignity
Notes:	Subject offered for the last time in 2010