ENGR90021 Engineering Communication

Credit Points:	12.50		
Level:	9 (Graduate/Postgraduate)		
Dates & Locations:	2011, 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: 36 hours (Lectures: 1 hour per week, Workshops: 2 hours per week) Total Time Commitment: 120 hours		
Prerequisites:	# Entry into the Master of Engineering OR the Master of Engineering Management OR # 200 points of undergraduate study		
Corequisites:	None		
Recommended Background Knowledge:	None		
Non Allowed Subjects:	Credit points will not be given for the following subjects when taking this subject		
	Subject	Study Period Commencement:	Credit Points:
	ENGR10004 Engineering Systems Design 1	Semester 1, Semester 2	12.50
	ENGR10003 Engineering Systems Design 2	Not offered 2011	12.50
Requirements:	Standards for Education (Cwth 2005), and Students Experi Policy, academic requirements for this subject are articulate Subject Objectives, Generic Skills and Assessment Require is dedicated to provide support to those with special require the disability support scheme can be found at the Disability www.services.unimelb.edu.au/disability/	ed in the Subject Descript ements of this entry. The ements. Further details or	ion, University 1
Coordinator:	Assoc Prof Roger Hadgraft		
Contact:	Assoc Prof Roger Hadgraft roger.hadgraft@unimelb.edu.au (mailto:roger.hadgraft)	@unimelb.edu.au)	
Subject Overview:	The subject introduces the nature of engineering work, at the and problem solving using sustainability principles. Specific # The nature of engineering practice # Engineering problem solving # Systems thinking and design		nunication
	# Teamwork # Meetings and group dynamics # Use of library services and information services # Sharing information and knowledge management # Oral and written communication # Technical drawing and modelling # Creation of alternative solutions # Evaluation and decision making processes using susta	ainability	

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# Work effectively in a small team, including evaluating peer and team performance	
# Use a systems approach to simplify a complex problem # Identify information needs related to a problem and seek answers to these needs	
# Present information orally, in writing and in drawings	
# Create and research alternative solutions to a problem	
# Evaluate solutions against sustainability criteria	
Team charter (team submission), research paper (pairs of students), problem definition submission (team submission), team presentation (individually assessed) totalling 1,000 words due week 4 (20%)Summary of alternative designs plus design criteria (individual and team components), team presentation (individually assessed) totalling 1,500 words due week 7 (3x10%=30%)Analysis of alternative designs and recommended design totalling 1,500 words due week 10. Team submission (20%) plus Individual (10%)Debates on proposed projects (individual) plus peer assessment 500 words due week 12 (10%)500 word individual journal in the form of e-portfolio entries due week 12 (10%)	
Engineering Your Future (D Dowling, A Carew & R Hadgraft), Wiley, 2010	
This subject is not available as a breadth subject.	
Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees	
# Ability to communicate effectively, with the engineering team and with the community at large # 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 # Ability to undertake problem identification, formulation and solution # Ability to utilise a systems approach to complex problems and to design and operational performance # Understanding of social, cultural, global and environmental responsibilities and the need to	
employ principles of sustainable development	
# Ability to manage information and documentation	
# Capacity for lifelong learning and professional development	
Master of Engineering Management Master of Engineering Management Master of Engineering Project Management Master of Engineering Project Management	
Master of Engineering (Biomedical) Master of Engineering (Biomolecular) Master of Engineering (Chemical) Master of Engineering (Civil) Master of Engineering (Electrical) Master of Engineering (Environmental) Master of Engineering (Geomatics) Master of Engineering (Mechanical) Master of Engineering (Mechanical) Master of Engineering (Software) Master of Engineering (Software) Master of Engineering (Structural)	

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