

ENEN90011 Energy Efficiency Technology

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 36 hours (Lectures: 2 hours per week, Set task: 1 hour per week) per semester Total Time Commitment: 120 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<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>
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Subject Overview:	This subject explores the scope and methods for improving energy efficiency across a range of sectors. Topics include: potential for improvements in energy efficiency in petrol and diesel vehicles; energy efficiency technologies for the manufacturing, commercial and domestic sectors; demand side management; integrated resource planning; energy auditing; and economic and environmental impacts
Objectives:	On successful completion students should be able to: <ul style="list-style-type: none"> # Identify the basic issues in energy efficient technologies and their implementation # Discuss the current possibilities for improving the ratio of energy used per unit of output in the main sectors of society, i.e. transportation, manufacturing, commercial, domestic, and energy supply industries # Analyse the social, economic and environmental implications for the adaption of these technologies
Assessment:	One 3-hour open book examination, end of semester (50%) One 2000 word report, due at the end of semester (30%) One 1000 word per student group report, due mid semester (20%)
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 undertake problem identification, formulation and solution # Ability to communicate effectively, with the engineering team and with the community at large

	<ul style="list-style-type: none"> # Ability to manage information and documentation # Understanding of professional and ethical responsibilities, and commitment to them # Capacity for lifelong learning and professional development
Related Course(s):	<p>Bachelor of Engineering (Civil Engineering) Master of Engineering Structures Master of Engineering Structures Master of Environmental Engineering Master of Environmental Engineering Postgraduate Certificate in Engineering</p>
Related Majors/Minors/ Specialisations:	<p>B-ENG Civil Engineering stream Climate Change Development Energy Efficiency Modelling and Implementation Energy Studies Environmental Science Environmental Science Master of Engineering (Civil) Master of Engineering (Environmental) Master of Engineering (Geomatics)</p>