421-626 Design of Energy Systems

Credit Points:	12.500
Level:	Graduate/Postgraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 36 hours lectures and 12 hours set tasks; Non-contact time commitment: 84 hours Total Time Commitment: Not available
Prerequisites:	421-636 : Applied Fortran Programming
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	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. 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
Coordinator:	Lu Aye
Subject Overview:	Topics covered include: Design and selection of system components; concepts of system design; technical and economic feasibility; strength and limitation of ready made software; system modelling and simulation as design tools; design optimisation.
Assessment:	One 2 hour examination - open book (20%). One assignment of up to 2,000 words equivalent (35%). Set tasks (45%).
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:	On successful completion, students should have: # developed analytical and design skill needed for energy systems optimisation
Related Course(s):	Graduate Certificate in Engineering(Energy Studies) Graduate Diploma in Engineering (Energy Engineering) Master of Applied Science (Energy Studies) Master of Development Technologies Master of Energy Studies Master of Engineering Project Management Master of Engineering Structures Master of Environmental Engineering Master of Utilities Management Master of Water Resource Management