ABPL90086 Environmental Systems (PG)

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville
	This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 36 hours: 1x 2 hours of lectures per week; 1 x1 hour of tutorials per week Total Time Commitment: 120 hours
Prerequisites:	Admission to Melbourne School of Design graduate level program, or written permission from the subject coordinator.
Corequisites:	None specified
Recommended Background Knowledge:	None specified
Non Allowed Subjects:	702-465 (ABPL40017) - Environmental Systems
Core Participation Requirements:	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:	Dr Boon Ong
Contact:	Environments and Design Student Centre T: +61 3 8344 6417/9862 F: +61 3 8344 5532 Email: msd-courseadvice@unimelb.edu.au
Subject Overview:	This subject covers key elements of building services and sustainability. The services component of the subject (50%) includes:
	# refrigeration,heating and air handling plant;
	# air distribution;
	# energy efficiency, and documentation of air-conditioning system designs;
	# non-residential electrical, telecommunications, transportation and building management systems;
	# special servicing conditions including hospitals, auditoria, industrial buildings, commercial kitchen planning, and district services.
	The sustainability component of the subject (50%) includes:
	# design for daylighting, natural ventilation and mixed mode systems;
	# displacement ventilation, evaporative cooling and radiant cooling systems;
	# active solar heating and cooling systems;
	# indoor air quality, environmental comfort and post-occupancy evaluation;
	# principles of room acoustics and sound isolation.
Objectives:	On completion of this subject students will have a working familiarity with both passive and active systems of environmental control used in commercial and institutional buildings.
Assessment:	One two-hour examination (70%). Exercises (eg. written and drawn assignments, class presentations) equivalent to not more than 3000 words (30%). Students must demonstrate a high level of engagement with and/or critical analysis of the subject content to complete the subject at postgraduate level, and will be subject to assessment at postgraduate level.
Prescribed Texts:	None specified

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Recommended Texts:	Parlour, R. P. Building services: a guide to integrated design & engineering for architects. Pymble, N.S.W: Integral Publishing, 2000.
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:	# application of calculation methods; # correct use of technical terminology; # relating to consultants.
Links to further information:	http://www.abp.unimelb.edu.au/environments-and-design-students/melbourne-school-of-design-students.html
Related Course(s):	Bachelor of Property and Construction Bachelor of Property and Construction (Honours) Master of Architecture Master of Architecture Master of Construction Management Master of Construction Management Master of Environment Master of Environment Master of Property Master of Property Master of Urban Planning Postgraduate Certificate in Environment Postgraduate Diploma in Environment
Related Majors/Minors/ Specialisations:	Energy Efficiency Modelling and Implementation

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