421-496 High Rise Structures

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: Thirty-two hours of lectures and eighteen hours of tutorials/supervised design sessions. Total Time Commitment: Not available
Prerequisites:	421-317 Structural Engineering 2
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:	Priyan Mendis
Subject Overview:	The objective of this unit is to make students aware of the special requirements necessary to the successful design of high-rise structures. Topics covered include structural systems including floor systems, framing systems and foundation systems; environmental actions such as wind, earthquake and thermal; wind tunnel testing; effect of time dependent actions such as creep and shrinkage; and analytical aspects including computer-aided analysis and design, state-of-the-art construction techniques, special structural elements, case studies of high-rise buildings and towers.
Assessment:	One 3-hour end of semester examination (70%) and one assignment of 3000 words equivalent (30%)
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:	# in-depth technical competence in at least one engineering discipline; # ability to undertake problem identification, formulation and solution; # ability to utilise a systems approach to design and operational performance