

GEOM90018 Spatial Databases

Credit Points:	12.50						
Level:	9 (Graduate/Postgraduate)						
Dates & Locations:	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.						
Time Commitment:	Contact Hours: 24 hours lectures and 24 hours lab exercises Total Time Commitment: 120 hours						
Prerequisites:	The prerequisite for this subject may be taken concurrently <table border="1" data-bbox="389 584 1485 734"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>GEOM90008 Foundations of Spatial Information</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	GEOM90008 Foundations of Spatial Information	Semester 1	12.50
Subject	Study Period Commencement:	Credit Points:					
GEOM90008 Foundations of Spatial Information	Semester 1	12.50					
Corequisites:	None						
Recommended Background Knowledge:	None						
Non Allowed Subjects:	None						
Core Participation Requirements:	<p><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> </p>						
Coordinator:	Assoc Prof Egemen Tanin						
Contact:	etanin@unimelb.edu.au (mailto:mduckham@unimelb.edu.au)						
Subject Overview:	The topics covered in this subject will include: the fundamentals of non-spatial and spatial databases; spatial data modelling including entity-relationship models; indexes and access methods including B-trees, quadrees, and R-trees; query languages and query processing						
Objectives:	On successful completion of this subject students will be able to: <ul style="list-style-type: none"> # Describe the need for spatial databases, and the differences between spatial and non-spatial database systems # Describe the design and principles of spatial databases, including techniques for efficiently storing and retrieving spatial data # Design queries for spatial and non-spatial database systems # Use and customize specific spatial and non-spatial database systems 						
Assessment:	Three-hour written exam at the end of the semester (60%)Four practical assignment reports of about 3 pages length each, due evenly throughout the semester (40%)Hurdle requirement: Students must achieve a grade of at least 50% in the written examinaiton at the end of the semester in order to pass this subject						
Prescribed Texts:	None						

Recommended 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 of this subject students should be able to: <ul style="list-style-type: none"> # Apply knowledge of science and engineering fundamentals # Undertake problem identification, formulation, and solution # Communicate effectively, with the engineering team and with the community at large # Manage information and documentation
Related Course(s):	Master of Geographic Information Technology Master of Spatial Information Science Postgraduate Certificate in Engineering
Related Majors/Minors/ Specialisations:	Master of Engineering (Geomatics)