GEOM90015 Spatial Data Infrastructure

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: 48 hours per semester (Lectures: 24 hours, Projects and Labs: 24 hours) Total Time Commitment: 120 hours
Prerequisites:	None
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. <t style="color: red;"> <t style="color: red;"><t style="color: red;"> <t style="color: red;"><t style="color: red;"> <t style="color: red;"><t style="color: red;"> <t style="color: red;"></t></t></t></t></t></t></t></t></t></t></t></t></t></t></t></t></t>
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Subject Overview:	This subject presents the principles, concepts and design strategies for the development of Spatial Data Infrastructure (SDI). The subject will discuss technologies and disciplines to facilitate the development of SDIs as an enabling platform. It will also examine related disciplines such as land and marine administration as well as technical areas such as interoperability, web-mapping and web-delivery to better meet sustainable development objectives. Topics covered include SDI concepts and theory (principles, issues, hierarchy and sustainable development); Current SDI initiatives; SDI Development Strategies and Development Models; SDI as an enabling Platform; SDI and Spatially Enabled Government and Society; SDI and Partnerships Approaches; Financing SDI Development; Challenges for Developed and Developing Countries; Capacity Building for SDI; Marine SDI and Seamless SDI; SDI Development-Institutional and Technical Aspects; Policy and Privacy Issues; SDI and Land Administration; Metadata, Standards and Clearinghouse; SDI Application areas; SDI Benchmarking; SDI Implementation
Objectives:	On successful completion of this subject students will have the ability to: # Identify and discuss SDI principles and issues, institutional arrangements supporting SDI initiatives, the need for effective and efficient design and development of SDIs # Review a variety of technologies for developing and maintaining SDIs # To understand and analyse a range of local and overseas approaches to SDI development in both developed and developing countries

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	# Model design and evaluate SDI and other related spatial data initiatives
Assessment:	One 2-hour written examination, end of semester (50%) One major assignment of 3000 words, due end of the semester (25%) Two practical exercises and reports of not more than 1000 words over the first eight weeks of the semester (15%) One selected topic presentation over the semester (10%)
Prescribed Texts:	Rajabifard A (2007), Towards a Spatially Enabled Society. The University of Melbourne Press.SDI cookbook (2004), produced by the GSDI Association (www.gsdi.org) Williamson, I.P., Rajabifard, A. and Feeney, ME. (2003). Developing Spatial Data Infrastructures: From Concept to Reality. Taylor and Francis
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:
	# Ability to undertake problem identification, formulation, and solution
	# Understanding of social, cultural, global, and environmental responsibilities and the need to employ principles of sustainable development
	# Ability to communicate effectively witht he engineering team and wit the community at large
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)

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