GEOM90023 Spatial Information Research Project B

Credit Points:	37.5			
Level:	9 (Graduate/Postgraduate)			
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Summer Term, Parkville - Taught on campus. Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus. Winter Term, Parkville - Taught on campus.			
Time Commitment:	Contact Hours: Contact hours with academic supervisors on request. Total Time Commitment: 600 hours			
Prerequisites:	Enrolment into this subject requires subject coordinator permission And Successful completion of the following subject is required to enrol:			
	Subject	Study Period Commencement:	Credit Points:	
	GEOM90016 Advanced Topics in GIScience	Semester 1	12.50	
Corequisites:	None			
Recommended Background Knowledge:	Students should have some background knowledge of indiv from breadth or capstone subjects.	idual project work and re	port writin	
Non Allowed Subjects:	Students cannot enrol in and gain credit for this subject and	:		
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Non Allowed Subjects:				
Non Allowed Subjects:	Subject	Study Period Commencement: Summer Term, Semester 1, Semester 2, Winter	Points:	
Non Allowed Subjects:	Subject GEOM90020 Spatial Information Research Project	Study Period Commencement: Summer Term, Semester 1, Semester 2, Winter Term Summer Term, Semester 1, Semester 2, Winter	Points: 50	
Non Allowed Subjects: Core Participation Requirements:	Subject GEOM90020 Spatial Information Research Project GEOM90013 Spatial Information Research Project C	Study Period Commencement: Summer Term, Semester 1, Semester 2, Winter Term Summer Term, Semester 1, Semester 2, Winter Term Summer Term, Semester 1, Semester 2, Winter Term Summer Term, Semester 1, Semester 2 e Adjustments under the and Engagement Policy Overview, Learning Outco cp>It is University policy t y upon academic study, a s participation in the Unimeeting the requirement y Student Adviser and St	Points: 50 25 25 Disability , academic omes, o and versity's s of this udent	
Core Participation	Subject GEOM90020 Spatial Information Research Project GEOM90013 Spatial Information Research Project C GEOM90031 Spatial Information Research Project D For the purposes of considering request for Reasonable Standards for Education (Cwth 2005), and Student Support requirements for this subject are articulated in the Subject O Assessment and Generic Skills sections of this entry. Assessment and Generic Skills sections of this entry. ake all reasonable steps to minimise the impact of disability reasonable adjustments will be made to enhance a student programs. Students who feel their disability may impact on subject are encouraged to discuss this matter with a Faculty Equity and Disability Support: http://services.unime	Study Period Commencement: Summer Term, Semester 1, Semester 2, Winter Term Summer Term, Semester 1, Semester 2, Winter Term Summer Term, Semester 1, Semester 2, Winter Term Summer Term, Semester 1, Semester 2 e Adjustments under the and Engagement Policy Overview, Learning Outco cp>It is University policy t y upon academic study, a s participation in the Unimeeting the requirement y Student Adviser and St	Points: 50 25 25 Disability , academic omes, o and versity's s of this udent	

	winter@unimelb.edu.au (mailto:winter@unimelb.edu.au)		
Subject Overview:	AIMS		
	The Spatial Information Research Project is the capstone experience of a postgraduate course, requiring integrating knowledge and expertise gained from all previous coursework and applying it to an individual challenging research problem under academic supervision. Reflecting the interdisciplinary character of the course, the student can choose two supervisors; one of them has to be from the Geomatics discipline in the Department of Infrastructure Engineering. The project will culminate in a thesis.		
	Students may undertake this 50 point research project in the following options:		
	One semester by enrolling in GEOM90020 Spatial Information Science Research Project (50pts)		
	OR		
	Stretched over two consecutive semesters by combining either:		
	# GEOM90010 Spatial Information Research Project A (12.5pts) in one Semester and GEOM90023 Spatial Information Research Project B (37.5pts) in the consecutive semester		
	OR # GEOM90013 Spatial Information Research Project C (25pts) in one Semester and GEOM90031 Spatial Information Research Project D (25pts) in the consecutive semester.		
	These options facilitate some flexibility in the choice of electives that are offered in particular semesters only, however, the approval for this arrangement is completely at the discretion of the Subject Coordinator. A project stretched over two semesters is still assessed as a whole at the end of the second component. The thesis has to cover the whole project.		
	INDICATIVE CONTENT		
	The student will develop a research question in spatial information science and an appropriate research methodology for investigating the question. After approval by the supervisor(s) the student will apply this methodology, analyse results, and report in a thesis.		
Learning Outcomes:	INTENDED LEARNING OUTCOMES (ILO)		
	Having completed this subject the student is expected to:		
	 Define a research project in their subject matter Develop an approach in order to run a research project in their subject matter Use and develop associated technologies according to their chosen methodology Interpret and discuss experimental results with respect to a hypothesis. 		
Assessment:	The research project culminates in a thesis, reporting about the addressed research problem, approach, results, and conclusions. A project stretched over two semesters is still assessed at the end of the second component. The thesis will be assessed by two examiners, both possibly supervisors, according to the Intended Learning Outcomes (ILOs) 1-4, and is worth 100%. Effective feedback will be provided to students continuously during the project period: (a) at the beginning of the project the supervisor(s) will discuss with the student their expectations on a page or word limit on an individual basis, due to the variety of the characters of research projects in spatial information such as fieldwork, programming, or literature review, and (b) in weekly or fortnightly individual, face-to-face progress meetings. The total workload of a Spatial Information Research Project is 800 hours.		
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 the:		
	# Ability to apply knowledge of science and engineering fundamentals		
	# Ability to updertake problem identification, formulation, and solution		

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	 # Ability to conduct an engineering project # Capacity for creativity and innovation # Capacity for lifelong learning and professional development.
Notes:	LEARNING AND TEACHING METHODS
	The subject is guided by weekly progress meetings with the supervisor(s). While the components of the project are relatively constant (research idea, literature review, theoretical framework, experiment, analysis, discussion and reporting) the student is urged to develop early a time plan to manage their progress according to their individual research problem. The time plan is used in supervisor meetings to reflect on progress and potentially provide guidance.
	The thesis has in many cases the form of a scientific paper, such that in cases of outstanding and scientifically original work the thesis can also be submitted for publication.
	INDICATIVE KEY LEARNING RESOURCES
	As an individual research project it is up to the student to identify required resources (typically access to the scientific literature as provided electronically through the University library). Computing resources are provided by the University. The skills for doing a research project were developed in the pre-requisite subject.
	CAREERS / INDUSTRY LINKS
	Typically this is an academic research project, oriented along scientific literature and aiming to produce a scientific outcome.
Related Course(s):	Master of Spatial Information Science