

SINF20007 Reasoning with Informatics

Credit Points:	12.50						
Level:	2 (Undergraduate)						
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.						
Time Commitment:	Contact Hours: 2 x one hour lectures per week; 1 x two hour workshop per week. Total Time Commitment: Estimated total time commitment of 120 hours						
Prerequisites:	. <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>INFO10002 Informatics 2: People, Data and the Web</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	INFO10002 Informatics 2: People, Data and the Web	Semester 1, Semester 2	12.50
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INFO10002 Informatics 2: People, Data and the Web	Semester 1, Semester 2	12.50					
Corequisites:	None						
Recommended Background Knowledge:	None						
Non Allowed Subjects:	None						
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.						
Coordinator:	Dr Rachelle Bosua						
Contact:	Email: rachelle.bosua@unimelb.edu.au (mailto:rachelle.bosua@unimelb.edu.au)						
Subject Overview:	This subject presents tools, methods and techniques for discovering, analysing, representing and modelling information in information-rich environments. Students will develop an understanding of the difference between data, information and knowledge. The subject addresses fundamental ideas in Informatics and the role of information in socio-technical systems. Students will analyse a specific information-rich domain and classify and structure information to create a small Ontology for the domain. Overall students should develop an appreciation of data and information in modelling and designing Information Systems.						
Objectives:	On completion of this subject student should be able to <ul style="list-style-type: none"> # understand the difference between data, information and knowledge # appreciate the discovery, naming, classification, representation, and use of information in information-rich environments # use formal concepts to attribute semantic meaning to information and reason about information presentation # use tools to structure and model information for a specific domain by creating a small Ontology # appreciate socio-technical influences that contribute to the analysis of information systems 						
Assessment:	An online test (30 minutes; mid-semester) to assess students' knowledge of key Informatics concepts (5%)A short research essay (1000 words) about modelling and structuring information in information-rich environments (15%)A project that comprises the development of an Ontology for a specific information-rich domain. This project consists of three parts and will run throughout						

	the semester (2 parts are done individually and one part is done as a group; about 25 hours in total for the full project; 30%)A 2-hour end-of-semester written examination (50%).
Prescribed Texts:	J Gammack, V Hobbs & D Pigott The Book of Informatics Thompson 2007
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2010/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2010/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2010/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/B-MUS) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>On completion of this subject students should have developed the following generic skills:</p> <ul style="list-style-type: none"> # the ability to analyse and solve real-world problems with appropriate IT tools; # the ability to synthesise information and communicate results effectively; # the capacity for critical and independent thought and reflection
Notes:	<p>This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BAsc or a combined BSc course.</p> <p>Students undertaking this subject will be expected to regularly access an internet-enabled computer.</p>
Related Course(s):	<p>Bachelor of Information Systems Bachelor of Science Bachelor of Science and Bachelor of Information Systems</p>