

Subject Description Form

Subject Code	COMP5324				
Subject Title	Internet Information Retrieval				
Credit Value	3				
Level	5				
Pre-requisite/ Exclusion	Nil				
Objectives	<p>The objectives of this subject are to:</p> <ol style="list-style-type: none"> 1. Study the fundamental knowledge and techniques in information retrieval (IR) and information extraction (IE); 2. apply the IR and IE fundamentals to various internet applications; and 3. explore the use of information retrieval technology in advanced IR internet applications, like information filtering. 				
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> a) be aware of various classical information retrieval models; b) comprehend the main difference between classical information retrieval and Internet information retrieval, and handle the problems particularly associated to Internal information retrieval; c) design and implement effective retrieval systems; d) apply retrieval evaluation techniques to improve retrieval system; and e) extract important pieces of information from the retrieved text and convert from unstructured text to structured database 				
Subject Synopsis/ Indicative Syllabus	<ul style="list-style-type: none"> • Presentation of Information in the Internet: Tagging and Processing: HTML, XML and SGML. • Classical Information Retrieval: Architecture, IR models, Term selection and weighting, Ranking, Query processing, Evaluation techniques, indexing and search engine fundamentals. • Information Extraction: Extraction: Keyword identification, NP extraction, String pattern extraction • Distributed Information Retrieval: Web-graph analysis, Server ranking, Meta search engines. • Applications: Digital library, Wireless information access • Advanced Information Retrieval: Relevance feedback, Advanced indexing techniques, issues in Multilingual/Multimedia information retrieval, Information filtering and text categorization. 				
Teaching/Learning Methodology	Class activities including - lecture, tutorial, lab, workshop seminar where applicable				
Assessment Methods in Alignment with Intended Learning Outcomes	Specific Assessment Methods/Tasks	% weighting	Intended subject learning outcomes to be assessed		
			a	b	c

	Assignments, Tests & Projects	55	✓	✓	✓	✓	✓
	Final Examination	45	✓	✓	✓	✓	
	Total	100					
Student study effort expected	Class Contact:						
	Class activities (lecture, tutorial, lab)					39 hours	
	Other student study effort:						
	Assignments, Quizzes, Projects, Exams					65 hours	
	Total student study effort					104 hours	
Reading list and references	<p>(1) G.G. Chowdhury, 2010, An Introduction to Modern Information Retrieval, 3rd Ed, Neal-Suhuman Publishers.</p> <p>(2) R. Baeza-Yates, B. Ribeiro-Neto., 2011, Modern Information Retrieval, 2nd Ed, ACM Press.</p> <p>(3) J. Y. Nie, G. Hirst, 2010, Cross-language information retrieval, Morgan and Claypool Publishers.</p>						