Subject Description Form

Subject Code	COMP 5322				
Subject Title	Internet Computing and Applications				
Credit Value	3				
Level	5				
Pre-requisite/ Exclusion	Prerequisite: Nil				
	Exclusion: COMP5321 Enterprise Web and Internet Computing for				
	Managers				
Objectives	The objectives of this subject are to enable students:				
	1. to study the impact of Internet in facilitating a truly distributed,				
	wide area and highly accessible computing environment;				
	2. to explore various web-related technologies and to gain				
	with one another to enable ubiquitous access of information:				
	3 to examine the analysis design and implementation techniques				
	required to develop the network enterprise and Internet based				
	information systems. In also covers the managerial perspective				
	of Internet Computing and how this evolving technology will				
	impact future enterprise e-solution.				
Intended Learning	After completing this subject, students should be able to:				
Outcomes					
	a) gain a good overall understanding and appreciation of				
	technologies encompassing Internet Computing that will equip				
	them with the skill sets to plan, design and formulate best				
	information systems:				
	b) critically assess the problems and issues surrounding the				
	challenges presented to them. In the process of formulating a				
	holistic solution to the problems, students are taught the skill				
	sets to incrementally assess the suitability of various				
	technologies; and				
	c) understand the core concepts that underpin Internet Computing				
	that will provide them with the necessary skill sets to acquire				
	further knowledge as the technology continues to evolve.				
Subject Synopsis/	Internet Computing for Enterprise IS				
Indicative Syllabus	• Internet technology for enterprise IS				
	Internet technology for enterprise is				
	 Initiality vs internet Network infrastructure and support for internet computing 				
	Network security				
	Web-based Client/Server Computing				
	Revolution of Web as the intergalactic client/server internet				
	computing platform. Web protocols and hypertext technology.				
	HTTP data representation and response. Interactive Web-based				
	client/server.				
	• Different technologies involved in Web programming and how				
	they work together. Scripting with HTML, CGI programming				
	and Java Servlet appraoches to creating high-quality Web sites.				

	Web security: SSI						
	Web detahara annuartisita and natural interface						
	• web database connectivity and network interface						
	Future of web and Internet Computing						
	Next generation web standards: XML						
	• General overview of XML and its application. XML						
	Namespaces, Document type definitions, XSL.						
	• Processing XML using DOM, SAX.						
	• Developing enterprise XML-based web applications						
	r g r						
Teaching/Learning	class activities including - lecture, tutorial, lab, workshop						
Methodology	seminar where applicable						
Assessment Methods in							
Alignment with Intended	Specific Assessment	0/2	Intended subject				
Learning Outcomes	Methods/Tasks	weighting	learning outcomes				
Learning Outcomes	Wiethous/ Tasks	weighting	to be assessed				
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	Assignments, Tests &	55	v	v	v		
	Projects						
	Final Examination	45	\checkmark	\checkmark	\checkmark		
	Total	100					
Student study effort	Class Contact:						
expected	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	(1) Marty Hall, Core Web Programming, Prentice-Hall, 2001						
references		6 6					
	(2) Balachander Krishnamurthy et. al., Web Protocols and Practice,						
	Addison Wesley, 2001						
	(3) Robert Orfali et. al., Client/Server Survival Guide, 3rd Edition,						
	W11ey, 1999						
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