

Subject Description Form

Subject Code	COMP 5332
Subject Title	Web Services and Project Development
Credit Value	3
Level	5
Pre-requisite/ Exclusion	Nil
Objectives	<p>The objectives of this subject are to enable students:</p> <ol style="list-style-type: none"> 1. to understand the fundamentals of developing Web-based service applications and project management; 2. to understand the technologies and development frameworks of Web Services; and 3. to apply the learned techniques to analyze processes and functions of Web Service applications for development or improvement.
Intended Learning Outcomes	<p>After completing this subject, students should be able to:</p> <ol style="list-style-type: none"> a) acquire a good knowledge of Web-based services and project management; b) understand the standard/technologies for various Web service development; and c) apply and evaluate the techniques used for development and improvement of Web services.
Subject Synopsis/ Indicative Syllabus	<ul style="list-style-type: none"> • <u>Services Economy and Evaluation</u> Service Science introduction, service life-cycle framework, service economy. • <u>Interdependencies of Services and Business Processes</u> Strategy for new service development, service design and evaluation, business patterns, models of business information and processes, business process analysis. • <u>Web Services</u> XML review, XML data models and querying, web-based service frameworks, WSDL, SOAP, UDDI, HTTP, REST, service languages, service-oriented architectures. • <u>Web Services Project Development</u> Capacity and risk planning, service project initiation, execution, risk assessment, closure and change management. • <u>Document Engineering</u> Key concepts of document engineering, document anthropology and archeology, document component design and analysis for Web Services, assembling documents.
Teaching/Learning	Class activities including - lecture, tutorial, lab, workshop seminar

Methodology	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) Bill Hefley and Wendy Murphy (Eds) (2008). Service Science, Management and Engineering (SSME): Education for the 21st Century Springer.</p> <p>(2) Robert J. Glushko and Tim McGarth (2005). Analyzing and Designing Documents for Business Informatics and Web Services, MIT Press.</p> <p>(3) Lusch, R.F. and Vargo, S.L. (2006) The Service-dominant Logic of Marketing: Dialog, Debate, and Directions. M.E. Sharpe.</p> <p>(4) Teboul, James (2006) Service is Front Stage: Positioning Services for Value Advantage. Insead Business Press.</p> <p>(5) Norbert Bieberstein, Sanjay Bose, Marc Fiammante, Dr. Keith Jones, Rawn Shah (2005) Service-Oriented Architecture (SOA) Compass: Business Value, Planning, and Enterprise Roadmap, Addison-Wesley / Prentice Hall.</p>				