

## Subject Description Form

<b>Subject Code</b>	COMP 5132
<b>Subject Title</b>	Information Systems Acquisition and Integration
<b>Credit Value</b>	3
<b>Level</b>	5
<b>Pre-requisite/Exclusion</b>	Nil
<b>Objectives</b>	<p>The objectives of this subject are to enable students to:</p> <ol style="list-style-type: none"> <li>1. Apply the techniques for information requirement determination and acquire the appropriate computer systems;</li> <li>2. Obtain knowledge in cost estimates of information systems;</li> <li>3. Integrate information systems in terms of hardware, software, and communications;</li> <li>4. Practice system integration mechanisms by participating in case studies, team work, and case presentation.</li> </ol>
<b>Intended Learning Outcomes</b>	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> <li>a) better understand the information requirements in business environments;</li> <li>b) be aware of the cost involved in system integration; and</li> <li>c) practise different system integration mechanisms via case studies and presentation.</li> </ol>
<b>Subject Synopsis/ Indicative Syllabus</b>	<ul style="list-style-type: none"> <li>• <b>IS Planning and Acquisition Methods:</b> Information requirement analysis IS application portfolio Evaluating IS investments Selection of Hardware and Software Components</li> <li>• <b>Software Cost Estimation:</b> System Cost Estimation Work-breakdown structure Procurement vs. Implementation Acquisition models</li> <li>• <b>System Integration:</b> IT technologies and their applications to system integration Some useful technologies (Object-oriented technologies, Electronic Data Exchange, Data communication and networking, Document Centre Technology, ATM and ISDN etc) Case studies of system integration</li> <li>• <b>MIS Acquisition Integration Techniques:</b> Business Acquisition Strategies, Type, Goal MIS Integration Strategies Fit between Business and MIS Strategies</li> </ul>
<b>Teaching/Learning Methodology</b>	39 hours of Class activities including - lecture, tutorial, lab, workshop seminar where applicable

<b>Assessment Methods in Alignment with Intended Learning Outcomes</b>	Specific Assessment Methods/Tasks	% weighting	Intended subject learning outcomes to be assessed		
			a	b	c
	Assignments, Tests & Projects	55	✓	✓	✓
	Final Examination	45	✓	✓	✓
	Total	100			
<b>Student study effort expected</b>	<b>Class Contact:</b>				
	Class activities (lecture, tutorial, lab)			39 hours	
	<b>Other student study effort:</b>				
	Assignments, Quizzes, Projects, Exams			65 hours	
	<b>Total student study effort</b>			<b>104 hours</b>	
<b>Reading list and references</b>	<i>Reference books:</i>				
	(1) B. Craig Meyers and Patricia Oberndorf, 2001, Managing Software Acquisition: Open Systems and COTS Products, Addison-Wesley. (2) Earl, 1989, Management Strategies for Information Technology, Prentice-Hall. (3) East, Stuart, 1994, System Integration: A Management Guide for Manufacturing Engineers, Mc-Graw-Hill. (4) Lozinsky, 1998, Enterprise-wide Software Solutions: Integration Strategies and Practices, Addison Wesley.				
	<i>Journal paper:</i>				
	(1) Merali and McKiernan, 1993, The strategic positioning of information systems in post-acquisition management, Journal of Strategic Information Systems.				