Subject Description Form

Subject Code	COMP 5132
Subject Title	Information Systems Acquisition and Integration
Credit Value	3
Level	5
Pre-requisite/Exclusion	Nil
Objectives	The objectives of this subject are to enable students to: 1. apply the techniques for information requirement determination and acquire the appropriate computer systems; 2. obtain knowledge in cost estimates of information systems; 3. integrate information systems in terms of hardware, software, and communications; 4. practice system integration mechanisms by participating in case studies, team work, and case presentation.
Intended Learning Outcomes	Upon completion of the subject, students will be able to: a) acquire a good understanding on the information requirements in business environments; b) critically evaluate the cost involved in system integration in complex systems; and c) practise different system integration via creative case studies.
Subject Synopsis/ Indicative Syllabus	• **IS Planning and Acquisition Methods**: Information requirement analysis IS application portfolio Evaluating IS investments Selection of Hardware and Software Components • **Software Cost Estimation:** System Cost Estimation Work-breakdown structure Procurement vs. Implementation Acquisition models • **System Integration:** 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 • **MIS Acquisition Integration Techniques:** Business Acquisition Strategies, Type, Goal MIS Integration Strategies Fit between Business and MIS Strategies
Teaching/Learning Methodology	39 hours of Class activities including - lecture, tutorial, lab, workshop seminar where applicable

<table>
<tr><td>Assessment Methods in Alignment with Intended Learning Outcomes</td><td>
<table>
<tr><td rowspan="2">Specific Assessment Methods/Tasks</td><td rowspan="2">% weighting</td><td colspan="3">Intended subject learning outcomes to be assessed</td></tr>
<tr><td>a</td><td>b</td><td>c</td></tr>
<tr><td>Assignments, Tests & Projects</td><td>55</td><td>✓</td><td>✓</td><td>✓</td></tr>
<tr><td>Final Examination</td><td>45</td><td>✓</td><td>✓</td><td>✓</td></tr>
<tr><td>Total</td><td>100</td><td colspan="3"></td></tr>
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<tr><td rowspan="5">Student study effort expected</td><td colspan="2">Class Contact:</td></tr>
<tr><td>Class activities (lecture, tutorial, lab)</td><td>39 hours</td></tr>
<tr><td colspan="2">Other student study effort:</td></tr>
<tr><td>Assignments, Quizzes, Projects, Exams</td><td>66 hours</td></tr>
<tr><td>Total student study effort</td><td>105 hours</td></tr>
<tr><td>Reading list and references</td><td colspan="2">Reference books:
(1) B. Craig Meyers and Paticia Oberndorf, 2001, Managing Software Acquision: 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.
Journal paper:
(1) Merali and McKiernan, 1993, The strategic positioning of information systems in post-acquisition management, Journal of Strategic Information Systems.</td></tr>
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