

Subject Description Form

Subject Code	COMP 5131
Subject Title	Introduction to Information Systems
Credit Value	3
Level	5
Pre-requisite/Exclusion	Prerequisite: Nil Exclusion: COMP5139 Management Information Systems
Objectives	<p>The objectives of this subject are to:</p> <ol style="list-style-type: none"> 1. develop understanding and appreciation of the role of information systems in business environments to achieve competitive advantage; 2. provide fundamental knowledge in information system architectures and information technology infrastructure supporting them; 3. examine the state-of-the-art techniques and technologies that will contribute towards the future development of information systems and their applications; 4. develop the awareness in issues contributing to the successful planning, design, development, implementation and management of information systems.
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ol style="list-style-type: none"> a) articulate the role of information systems in business environments; b) apply state-of-the-art technologies to fulfil the roles of information systems in real world setting; and c) communicate project findings and solutions effectively to peers and senior management in a company.
Subject Synopsis/ Indicative Syllabus	<ul style="list-style-type: none"> • Information systems and the organizations: Computers and the new business environment; strategic use of information systems; organizations and the role of information systems. • Foundations of information systems: Computer systems components; systems software; application software and development tools; trends in hardware and software technology; managing data resources; database manage systems and data modeling; data warehousing and future of data management. • Communications and networks: Components of telecommunication system; telecommunication networks; enterprise networking; internet and electronic commerce. • Information Systems Development: Overview of system development process; system implementation; alternative approaches to system development; system development methodologies.

	<ul style="list-style-type: none"> • Organizational Support Systems: Knowledge management and the organization; application of intelligent technologies; decision support systems; cooperative work support systems; executive support systems. • Managing Information Systems: Computer security and integrity; assuring system quality; assuring data quality; ethical and social issues; managing and planning of computer and communication resources. 																							
Teaching/Learning Methodology	39 hours of Class activities including - lecture, tutorial, lab, workshop seminar where applicable																							
Assessment Methods in Alignment with Intended Learning Outcomes	<table border="1"> <thead> <tr> <th rowspan="2">Specific Assessment Methods/Tasks</th> <th rowspan="2">% weighting</th> <th colspan="3">Intended subject learning outcomes to be assessed</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <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></td> <td></td> <td></td> </tr> </tbody> </table>	Specific Assessment Methods/Tasks	% weighting	Intended subject learning outcomes to be assessed			a	b	c	Assignments, Tests & Projects	55	✓	✓	✓	Final Examination	45	✓	✓	✓	Total	100			
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Student study effort expected	<p>Class Contact:</p> <table border="1"> <tr> <td>Class activities (lecture, tutorial, lab)</td> <td>39 hours</td> </tr> </table> <p>Other student study effort:</p> <table border="1"> <tr> <td>Assignments, Quizzes, Projects, Exams</td> <td>66 hours</td> </tr> <tr> <td>Total student study effort</td> <td>105 hours</td> </tr> </table>	Class activities (lecture, tutorial, lab)	39 hours	Assignments, Quizzes, Projects, Exams	66 hours	Total student study effort	105 hours																	
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Reading list and references	<p><i>Text book</i></p> <p>(1) Laudon K.C. & Laudon J.P., Management Information Systems: Managing the Digital Firm, 16th Edition, Pearson, 2020.</p> <p><i>Reference books</i></p> <p>(1) Raymond McLeod & George Schell, Management Information Systems, 10th Edition, Prentice Hall, 2007.</p> <p>(2) R. Kelly Rainer, Jr., Efraim Turban, Introduction to information systems, 3rd Edition, Wiley, 2011.</p> <p><i>Journals and articles</i></p> <p>(1) Communications of ACM.</p> <p>(2) Computer (IEEE Computer Society)</p> <p>(3) MIS Quarterly.</p> <p>(4) Journal of Management Information Systems</p> <p>(5) Journal of Organizational Computing and Electronic Commerce</p> <p>(6) Computerworld.</p> <p>(7) Harvard Business Review</p> <p>(8) Sloan Management Review</p>																							