

## Subject Description Form

<b>Subject Code</b>	COMP 5139
<b>Subject Title</b>	Management Information Systems
<b>Credit Value</b>	3
<b>Level</b>	5
<b>Pre-requisite/Exclusion</b>	Prerequisite: Nil Exclusion: COMP5131 Introduction to Information Systems
<b>Objectives</b>	This is an active learning-oriented course designed to provide a managerial understanding and approach to the technical subject of Information System and Technology Management. The course will illustrate the important role that information systems play in an organization; and provide the student with a background to understand the subject and a foundation upon which to build his or her management decisions. Topics include Managing Information Assets, IT Technology and Strategy and IT Technology and Organization. This course is the capstone course for acquiring knowledge in Management Information System (MIS). It focuses on issues of real world application faced by the IT managerial professional in modern organizations.
<b>Intended Learning Outcomes</b>	Upon completion of the subject, students will be able to: <ul style="list-style-type: none"> <li>a) Describe the changing organizational environment and the use of information technology to manage contemporary organizations;</li> <li>b) Identify the business impacts of business and social networking, as well as ways the IT Managerial professional can leverage the new reality of human connectivity on the Internet;</li> <li>c) Learn IT Managerial Professional leadership responsibilities and opportunities;</li> <li>d) Apply MIS to current enterprise systems best practices in terms of the relationship between customer preferences and shareholder wealth;</li> <li>e) Apply the technological foundations of information systems, i.e., hardware, software and telecommunications;</li> <li>f) Evaluate the organizational context of information systems, including decision making and information processing concepts;</li> <li>g) Identify best practices for one of the Internet's newest and most revolutionary technologies: cloud computing and ways it is shaping the new economics of business.</li> </ul>
<b>Subject Synopsis/ Indicative Syllabus</b>	<ul style="list-style-type: none"> <li>• <b>Information systems and the organizations:</b> Computers and the new business environment; strategic use of information systems; organizations and the role of information systems.</li> <li>• <b>Foundations of information systems:</b> Computer systems components; systems software; application software and development tools; trends in hardware and software technology; managing data resources; database manage systems and data modelling; data warehousing and future of</li> </ul>

	<p>data management.</p> <ul style="list-style-type: none"> <li>• <b>Communications and networks:</b> Components of telecommunication system; telecommunication networks; enterprise networking; internet and electronic commerce.</li> <li>• <b>Information Systems Development:</b> Overview of system development process; system implementation; alternative approaches to system development; system development methodologies.</li> <li>• <b>Organizational Support Systems:</b> Knowledge management and the organization; application of intelligent technologies; decision support systems; cooperative work support systems; executive support systems.</li> <li>• <b>Managing Information Systems:</b> Computer security and integrity; assuring system quality; assuring data quality; ethical and social issues; managing and planning of computer and communication resources.</li> </ul>
<p><b>Teaching/Learning Methodology</b></p>	<p><b>T&amp;L1. Interactive Lectures and Discussions</b></p> <p>Interactive lectures will be provided by the lecturer to illustrate and reinforce basic concepts and knowledge of data communications and networks. Students are expected to have done pre-class reading and preparation and encouraged to share their views and experience actively in class discussions to deepen their learning.</p> <p><b>T&amp;L2. In-Class Case Studies</b></p> <p>Case studies of network management, wireless networks configuration and network security will be discussed in class. Students are encouraged to participate in discussions and identify the key issues, sharing their opinions and solutions with their peers. These discussions will help students apply their concepts and knowledge to solve business problems.</p> <p><b>T&amp;L3. Project</b></p> <p>Students will investigate how the latest network applications such as VoIP, Cloud Computing, and SOA etc applied in supporting business development.</p> <p><b>T&amp;L4. Demonstration</b></p> <p>Live demonstrations of video, software and technologies will be done in class to show students how the technologies are applied in</p>

	<p>real world.</p> <p><b>T&amp;L5. Guest Seminar</b></p> <p>A guest seminar will be conducted for selected topics. Students are required to attend the seminar, participate in discussions, and share their ideas with the guest based on the topics discussed. The guest seminar offer students opportunities to meet a professional practitioner and understand how he/she manages/applies networks system in his/her organization.</p> <p><b>T&amp;L6. Laboratory Session Assignments</b></p> <p>Windows Commands for network, Wireshark Packet Capture and OPNET will be taught in class to show students how they work. Students are expected to follow the instructions to complete all the required software exercises. Case studies will be provided to assess if students can apply the skills and technique related software and technologies to solve problems.</p> <p><b>T&amp;L7. Examination</b></p> <p>Final examinations test students' knowledge of the topics covered in class and their ability to apply that knowledge.</p>																																											
<p><b>Assessment Methods in Alignment with Intended Learning Outcomes</b></p>	<table border="1"> <thead> <tr> <th rowspan="2">Specific Assessment Methods/Tasks</th> <th rowspan="2">% weighting</th> <th colspan="7">Intended subject learning outcomes to be assessed</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> <th>e</th> <th>f</th> <th>g</th> </tr> </thead> <tbody> <tr> <td>Assignments, Tests &amp; Projects</td> <td>55</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Final Examination</td> <td>45</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td><b>Total</b></td> <td><b>100</b></td> <td></td> <td></td> <td></td> <td></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	d	e	f	g	Assignments, Tests & Projects	55	✓	✓	✓	✓	✓	✓	✓	Final Examination	45	✓	✓	✓	✓	✓	✓		<b>Total</b>	<b>100</b>							
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<p><b>Reading list and references</b></p>	<p><i>Text Books:</i></p> <p>(1). Brown, C.V., DeHayes, D.W., Hoffer, J.A., Martin, E.W., &amp; Perkins, W.C. (2012). Managing Information Technology. (7th Ed). Upper Saddle River, NJ: Pearson/Prentice Hall.</p>																																											

(2). R. R. Panko, (2011) Business Data Networks & Telecommunications: Eighth Edition, Prentice Hall

*References:*

- (1). B. Rajkumar, B. James, G. Andrzej M. , (2011) Cloud Computing: Principles and Paradigms. Wiley
- (2). S. Durane E. (2003), Customer Relationship Management Systems Handbook
- (3). L. Gordon S. and B. Michael J.A. (2011) Data Mining Techniques : For Marketing, Sales and Customer Relationship Management, (3th Ed), John Wiley & Sons

*Journals and articles*

- (1). Communications of ACM
- (2). Computer (IEEE Computer Society)
- (3). MIS Quarterly
- (4). Journal of Management Information Systems
- (5). Journal of Organizational Computing and Electronic Commerce
- (6). Computerworld
- (7). Harvard Business Review
- (8). Sloan Management Review
- (9). <http://instructors.coursesmart.com/9780132146074/1>