

Subject Description Form

Subject Code	COMP102
Subject Title	Enterprise Information Technology
Credit Value	3
Level	1
Pre-requisite / Co-requisite/ Exclusion	Nil
Objectives	<p>This subject provides students with the concept of information systems and their role in today's enterprises. This subject can be taken with or without having taken COMP100 as a pre-requisite. It is suitable for all students.</p>
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <ul style="list-style-type: none"> (a) understand the basic concepts and activities of enterprise information system; measuring success of any information system, competitive strategies of enterprise information system. (b) understand the input, output, storage, calculation technology; application software and system software; database management principles and approaches; computer network technology and open systems; relationship between information technology and development of enterprise. (c) understand enterprise information system development; system development lifecycle; system investigation, analysis, design, implementation, and maintenance. (d) gain hands-on experience on selecting and using real enterprise information software for different applications. <p>Alignment of Programme Outcomes:</p> <p>Programme Outcome 1: This subject contributes to having students practice their communication skills and demonstration ability with project presentation.</p> <p>Programme Outcome 2: This subject contributes to forming the global outlook that can affect the way computing systems are developed and used.</p> <p>Programme Outcome 3: This subject contributes to understand and value ethical issues in design and development of computing systems.</p> <p>Programme Outcome 4: This subject contributes to developing student critical thinking through lectures and lab exercises on solving problems. They will also practice choosing and evaluating the solutions for different technique problems.</p> <p>Programme Outcome 5: This subject contributes to problem solving with programming skills through lab exercise and project with proper design and implementation.</p>

	<p>Programme Outcome 6: This subject contributes to follow closely the advancement in information technology and their impact to the industrial need.</p> <p>Programme Outcome 7: This subject contributes to team work with group-based project for students to practice team spirit.</p> <p>Programme Outcome 8: This subject contributes to understand the commercial needs from both computing and management perspectives and be able to develop information systems that are useful to enterprises.</p>
<p>Subject Synopsis/ Indicative Syllabus</p>	<ol style="list-style-type: none"> 1. Fundamentals of enterprise information system Basic concepts of enterprise information system; activities of information system and cybernetic system; measuring success of an information system; classification of information system; 2. Competitive strategies of information system Cost leadership; differentiation strategy, innovation strategy, growth strategy, alliance strategy 3. Computer hardware and its application in enterprise History of computer hardware; input technology, output technology, storage technology, calculation technology; computer hardware development and enterprise information system. 4. Computer software and its application in enterprise Application software definition, classification, development; system software definition, classification, development; computer software development and enterprise information system. 5. Database and its application in enterprise Motivation of data management using database; database management approach; database development approaches; computer database and its applications in enterprise information system. 6. Networking and its application in enterprise Basic concepts of computer network; telecommunication network components; Open system, internet and intranet; computer network development and enterprise information system. 7. Enterprise information system development System development lifecycle; system investigation, analysis, design, implementation, maintenance.
<p>Teaching/Learning Methodology</p>	<p>A mix of lectures and lab sessions is used to deliver the various topics in this subject. Lectures are conducted to initiate students with the concepts and techniques of enterprise information technology. Students are given the opportunity to gain hands-on experience on operating enterprise information software during the laboratory sessions.</p>

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="4">Intended subject learning outcomes to be assessed (Please tick as appropriate)</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>1. Lab exercises</td> <td rowspan="3">60%</td> <td>✓</td> <td></td> <td></td> <td>✓</td> </tr> <tr> <td>2. Presentation</td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>3. Project</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>5. Examination</td> <td>40%</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td>Total</td> <td>100 %</td> <td colspan="4"></td> </tr> </tbody> </table>	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)				a	b	c	d	1. Lab exercises	60%	✓			✓	2. Presentation		✓	✓	✓	3. Project	✓	✓	✓	✓	5. Examination	40%	✓	✓	✓		Total	100 %				
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<p>Continuous assessments consist of a project, lab exercises, presentation, which are designed to facilitate students to achieve intended learning outcomes. Lab exercise is designed to encourage students to acquire deep understanding of the relevant knowledge, practice in order to enrich their hands-on experience with various software tools. Presentation is designed to facilitate students to show their group performances on applied different information techniques to enterprise applications. The project is designed to enhance students' ability to acquire the understanding and using different knowledge, principles, techniques, tools to solve a real problem through team.</p> <p>Examination will evaluate student's understanding and usage of enterprise information technologies.</p>																																							
Student Study Effort Required	Class contact:																																						
	▪ Lecture	28 Hrs.																																					
	▪ Laboratory	14 Hrs.																																					
	Other student study effort:																																						
	▪ Review the lecture	28 Hrs.																																					
	▪ Review the lab	14 Hrs.																																					
	▪ Prepare the presentation	8 Hrs.																																					
	▪ Design and implement the project	12 Hrs.																																					
	▪ Prepare the examination	10 Hrs.																																					
	Total student study effort	114 Hrs.																																					
Reading List and References	Reference Books: <ol style="list-style-type: none"> O'Brien, James. (2008). Introduction to information system. 14th Edition. McGraw-Hill. Laudon, K.C., et.al. (2006). Management Information Systems: 																																						

Managing the Digital Firm. 9th edition. Prentice Hall.

3. O'Brien, James. (2006). Management Information Systems: Managing Information Technology in the Business Enterprise. 7th Edition. McGraw-Hill.