

Subject Description Form

Subject Code	COMP5512																																
Subject Title	Information Technology and Logistics																																
Credit Value	3																																
Level	5																																
Pre-requisite/ Exclusion	Nil																																
Objectives	<p>The objective of this subject is to:</p> <p>Study how various contemporary information technologies can facilitate logistics and decision support in supply chain management</p>																																
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <p>a) Identify the advanced IT technology in different operational stages in logistics;</p> <p>b) Understand the fundamental issues for information acquisition and processing in logistical management;</p> <p>c) Apply knowledge understanding and discovery for supply chain forecasting, transportation scheduling and cost prediction; and</p> <p>d) Use the advanced RFID technology for inventory control and monitoring.</p>																																
Subject Synopsis/ Indicative Syllabus	<ul style="list-style-type: none"> • Overview of logistics & supply chain management. • Basic concepts of logistics and supply chain management. • IT applications in demand, transportation, inventory, and supply chain management. • Modeling of transportation and inventory management • Forecasting in supply chain management. • Bar Codes and Radio Frequency Identification (RFID), and their application in logistics. • Other emerging IT for logistics. 																																
Teaching/Learning Methodology	Class activities including - lecture, tutorial, lab, workshop seminar where applicable																																
Assessment Methods in Alignment with Intended Learning Outcomes	<table border="1" style="width: 100%; border-collapse: collapse;"> <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</th> </tr> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>Assignments, Tests & Projects</td> <td style="text-align: center;">55</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> </tr> <tr> <td>Final Examination</td> <td style="text-align: center;">45</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> <td style="text-align: center;">✓</td> </tr> <tr> <td>Total</td> <td style="text-align: center;">100</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	Assignments, Tests & Projects	55	✓	✓	✓	✓	Final Examination	45	✓	✓	✓	✓	Total	100				
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Student study effort expected	<p>Class Contact:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 75%;">Class activities (lecture, tutorial, lab)</td> <td style="text-align: center;">39 hours</td> </tr> </table>					Class activities (lecture, tutorial, lab)	39 hours																										
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	Other student study effort:	
	Assignments, Quizzes, Projects, Exams	65 hours
	Total student study effort	104 hours
Reading list and references	(1) Murphy, P.R. and Knemeyer, A. M., 2014, Contemporary Logistics, 11 th Ed., Prentice Hall. (2) Hillier, F. S., Hillier, M. S., 2010, Introduction to Management Science: a modeling and case studies approach with spreadsheets, 4 th Ed., McGraw-Hill/Irwin. (3) Christopher, M., 2011, Logistics and Supply Chain Management, 4 th Ed, Financial Times Series.	