

Subject Description Form

Subject Code	COMP5512																																	
Subject Title	Information Technology and Logistics																																	
Credit Value	3																																	
Level	5																																	
Pre-requisite/ Exclusion	Nil																																	
Objectives	The objective of this subject is to: Study how various contemporary information technologies can facilitate logistics and decision support in supply chain management																																	
Intended Learning Outcomes	Upon completion of the subject, students will be able to: a) critically review the advanced IT technology in different operational stages in logistics; b) develop a thorough understanding of the fundamental issues for information acquisition and processing in logistical management; c) apply knowledge understanding and discovery for supply chain forecasting, transportation scheduling and cost prediction; and d) use the advanced RFID technology for inventory control and monitoring.																																	
Subject Synopsis/ Indicative Syllabus	• 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	Class Contact:	
	Class activities (lecture, tutorial, lab)	39 hours
	Other student study effort:	
	Assignments, Quizzes, Projects, Exams	66 hours
	Total student study effort	105 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.	