

Subject Description Form

Subject Code	COMP432
Subject Title	Logistics Management
Credit Value	3
Level	4
Pre-requisite / Co-requisite/ Exclusion	Pre-requisite: COMP302 (Nil for 61025) Co-requisite/Exclusion: Nil
Objectives	<ul style="list-style-type: none">• To provide the knowledge in logistics operations, system evaluation and strategic management.• To learn how to solve various logistics problems using computer skill.
Intended Learning Outcomes	<p>Upon completion of the subject, students will be able to:</p> <p><i>Professional/academic knowledge and skills</i></p> <p>(a) understand the importance of logistics and its role in competitive strategy;</p> <p>(b) be aware of the value of information on decision making and logistics system performance;</p> <p>(c) recognize production systems and how such systems improve the operation management;</p> <p>(d) possess knowledge in system analysis, operation evaluation and performance monitoring of logistics operations;</p> <p>(e) perform case modelling, simulation and concepts;</p> <p><i>Attributes for all-roundedness</i></p> <p>(f) improve presentation and communication skills (through case study presentations);</p> <p>(g) learn independently and to find/integrate information from different sources required in solving real-life problems;</p> <p>(h) build up on team spirit, presentation and technical writing skills.</p> <p>Alignment of Programme Outcomes:</p> <p>Programme Outcome 1: This subject teaches elements of this outcome and provides practice for the students on this outcome as well as providing an opportunity to measure parts of the outcome.</p>

	<p>Programme Outcome 4. This subject provides practice for the students on this outcome as well as providing an opportunity to measure parts of the outcome.</p> <p>Programme Outcome 5: This subject teaches elements of this outcome and provides practice for the students on this outcome as well as providing an opportunity to measure parts of the outcome.</p> <p>Programme Outcome 7: This subject teaches elements of this outcome and provides practice for the students on this outcome.</p>							
<p>Subject Synopsis/ Indicative Syllabus</p>	<table border="1" data-bbox="483 451 1377 1407"> <thead> <tr> <th data-bbox="483 451 1377 483" style="text-align: center;">Topic</th> </tr> </thead> <tbody> <tr> <td data-bbox="483 493 1377 661"> <p>1. Principles of logistics management Development of logistics; economic significance of logistics; importance of logistics management in transportation and distribution systems.</p> </td> </tr> <tr> <td data-bbox="483 672 1377 798"> <p>2. Multi-modal transport operations Multi-modal transport concept; business practices; rules and responsibilities; liability and legal issues.</p> </td> </tr> <tr> <td data-bbox="483 808 1377 934"> <p>3. Supply chain Customer service dimensions; supply chain management concepts and applications; strategic alliance; supply chain integration.</p> </td> </tr> <tr> <td data-bbox="483 945 1377 1081"> <p>5. Inventory Inventory costs, control and management; capacity planning; warehousing.</p> </td> </tr> <tr> <td data-bbox="483 1092 1377 1228"> <p>5. Solving logistics problems using computer Shortest-path algorithms; maximum flow algorithms; decision-support algorithms for logistics problems</p> </td> </tr> <tr> <td data-bbox="483 1239 1377 1407"> <p>6. Logistics management Logistics performance measurement; management tools and methods in assessing logistics operations; databases and data exchange standards and technologies; e-logistics.</p> </td> </tr> </tbody> </table> <p>Case Study:</p> <p>Presentations will be held during seminars, where the students will form groups to read and present real-life cases related to the subject's topic.</p>	Topic	<p>1. Principles of logistics management Development of logistics; economic significance of logistics; importance of logistics management in transportation and distribution systems.</p>	<p>2. Multi-modal transport operations Multi-modal transport concept; business practices; rules and responsibilities; liability and legal issues.</p>	<p>3. Supply chain Customer service dimensions; supply chain management concepts and applications; strategic alliance; supply chain integration.</p>	<p>5. Inventory Inventory costs, control and management; capacity planning; warehousing.</p>	<p>5. Solving logistics problems using computer Shortest-path algorithms; maximum flow algorithms; decision-support algorithms for logistics problems</p>	<p>6. Logistics management Logistics performance measurement; management tools and methods in assessing logistics operations; databases and data exchange standards and technologies; e-logistics.</p>
Topic								
<p>1. Principles of logistics management Development of logistics; economic significance of logistics; importance of logistics management in transportation and distribution systems.</p>								
<p>2. Multi-modal transport operations Multi-modal transport concept; business practices; rules and responsibilities; liability and legal issues.</p>								
<p>3. Supply chain Customer service dimensions; supply chain management concepts and applications; strategic alliance; supply chain integration.</p>								
<p>5. Inventory Inventory costs, control and management; capacity planning; warehousing.</p>								
<p>5. Solving logistics problems using computer Shortest-path algorithms; maximum flow algorithms; decision-support algorithms for logistics problems</p>								
<p>6. Logistics management Logistics performance measurement; management tools and methods in assessing logistics operations; databases and data exchange standards and technologies; e-logistics.</p>								
<p>Teaching/Learning Methodology</p>	<p>Lectures focus on the introduction and explanation of key concepts.</p> <p>Seminars provide students with the opportunity to deepen their understanding of the concepts taught in lectures and to apply the theories to the analysis of real-life issues.</p>							

Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed (Please tick as appropriate)							
			a	b	c	d	e	f	g	h
	1. Assignments	60%		✓		✓	✓			
2. Lab exercises										
3. Project	✓		✓	✓	✓		✓	✓	✓	
4. Mid-term	✓		✓	✓	✓					
5. Examination	40%	✓	✓	✓	✓					
Total	100 %									
<p>Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:</p> <p>Assignments, project and mid-term examination can be acted as a measure of the understanding of the basic concepts. The students could further improve their presentation skills through the project presentation.</p> <p>Examination can be used as an overall measure of the subject.</p>										
Student Study Effort Expected	Class contact:									
	▪ Lecture	39 Hrs.								
	▪ Tutorial/Seminar	0 Hrs.								
	Other student study effort:									
	▪ Project	42 Hrs.								
	▪ Assignment	28 Hrs.								
	Total student study effort		109 Hrs.							
Reading List and References	<p>Reference Books:</p> <ol style="list-style-type: none"> Coyle, John Joseph, The Management of Business Logistics: A Supply Chain Perspective, 7th Edition, Thomson Learning, 2003. Handfield R. and Nichols E Jr, Introduction to Supply Chain Management, Prentice Hall, 1999. Harrison, Alan, Logistics Management and Strategy, Harlow, England: Financial Times/Prentice Hall, 2002. Deborah L. Bayles, E-Commerce Logistics and Fulfillment: Delivering the Goods, Prentice Hall, 2002. Carlos F. Daganzo, Logistics Systems Analysis, Springer, 1996. Stock, James R., Strategic Logistics Management, 4th Edition, McGraw- 									

Hill, 2001.

7. Vogt J. J., Business logistics management : theory and practice, Oxford University Press, 2002.
8. Articles from magazines, and journal references, including Harvard Business Review, Journal of Business Logistics, Journal of Information Technology, Logistics Information Management.