

Dept of Commerce

Programme : TYBCOM				Semester VI			
Course : Supply Chain Management				Code : NMUBCOM621			
Academic Year: 2023-2024							
Batch: 2021-24							
Teaching Scheme				Evaluation Scheme			
Lecture	Practical	Tutorial	Credits	Internal Continuous Assessment (ICA) (weightage)		Term End Examinations (TEE) (weightage)	
45	Nil	Nil	03				
Internal Component							
Class Test			Assignments			Class Participation	
Learning Objectives:							
<ul style="list-style-type: none"> To provide students with basic understanding of concepts of logistics and supply chain management To introduce students to the key activities performed by the logistics function To provide an insight in to the nature of supply chain, its functions and supply chain systems To understand global trends in logistics and supply chain management 							
Learning Outcomes:							
<p>The students should be able to:</p> <ul style="list-style-type: none"> Analyze how logistical decisions (e.g., facilities, inventory, and transportation) impact the performance of the firm as well as the entire supply chain. Analyze the strengths and weaknesses of various transportation modes and perform cost analysis. Develop the strategies that can be taken to find the best paths to route vehicles to deliver and collect goods at multiple stops. Develop the strategies that can be taken to manage inventories, including deciding the timing and quantity for replenishments without hurting the level of product availability. Know basic characteristics and costs of warehousing and materials handling activities. Understand dynamics within the supply chain to optimize performance and profitability. Learn methods of distribution, reverse logistics, and global supply chain communications 							
Pedagogy:							
Lecture, network designing, case study, packaging design analysis, video clips, documentaries, infrastructure project analysis etc.							
Detailed Syllabus: (per session plan)							
Session Outline for <u>Supply Chain Management</u>							
Each lecture session would be of one hour duration (45 sessions)							

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Module	Module Content	Module wise Pedagogy Used	Duration of Module	Reference Book
I	<p><u>Introduction of SCM</u></p> <p>a) Meaning & Overview of SCM: Nature & Scope of SCM, I) Purchasing II) Logistics III) Warehousing & Expediting, Contemporary Developments in SCM; Bar Coding, Electronic Data Interchange, Distribution Requirement Planning, JIT (Just in Time)</p> <p>b) Managing Supply Chain: Process Tools for Supply Chain Management, Measuring Supply Chain Performance, Ways to Improve Supply Chain, Logistics Management V/S Supply Chain Management, Evolution of Supply Chain Management, Importance of Supply Chain Management.</p> <p>c) Principles and Strategies: Principles, Supply Chain Strategies- Organization, Coordination, Innovation and Forecasting.</p>	Lecture, case study, video clips, documentaries etc.	12 lectures	<ul style="list-style-type: none"> • David Simchi Levi, Philip Kaminshy, Edith Simchi Levi, Designing & Managing the Supply Chain - Concepts, Strategies and Case Studies Logistics • Donald Waters, An Introduction to Supply Chain • Martin Christopher, Logistics & Supply Chain Management - Strategies for
II	<p><u>Supply Chain Network, Demand Management & Supply Chain Planning.</u></p> <p>a) Supply Chain Network Design, Importance of Supply Chain Network, Factors influencing Network Design Decisions, Functions performed by Distribution Channels, Types of Distribution Channel, Modelling Approaches to Supply</p>	Lecture, case study, video clips, documentaries, etc.	15 lectures	

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	<p>Chain Network Design; Optimization Model, Simulative Model, Heuristics Model</p> <p>b) Demand Management : Meaning, Customer Service & Demand Management, Challenges in Demand Management, Forecasting; Methods of Forecasting, Customer Service; Elements, Methods</p> <p>c) Supply Chain Planning Aggregate Planning Strategies, Planning Supply & Demand in a Supply Chain, Planning & Managing Inventories in a Supply Chain, Planning Optimal Level of Product Availability, Supply Chain Strategy Framework.</p>			<p>Reducing Cost & Improving Services</p> <ul style="list-style-type: none"> • Vinod Sople, Logistic Management - The Supply Chain Imperative • Donald J Bowersox & David J Closs, Logistic Management - The Integrated Supply Chain Process
III	<p><u>Inventory Management & Transportation</u></p> <p>a) Inventory Management; Meaning, Symptoms of Poor Inventory Management, Inventory Cost, Inventory Control Systems, Inventory Control Techniques, Factors Affecting Management of Inventory.</p> <p>b) Traffic & Transportation Strategy, Transport Documentation, Transportation Economics & Pricing, Transportation Management Strategy, Transportation Management Systems, Transportation Services, Transportation Rate Profile Role of Transportation in Logistics, Factors Affecting Choice of Transportation, Modes of Transportation- Railways,</p>	Lecture, network designing, case study, video clips, documentaries, infrastructure project analysis etc.	15 lectures	<ul style="list-style-type: none"> • Alan Rushton, Phil Croucher, Peter Baker, The Handbook of Logistics and Distribution Management- Understanding the Supply Chain

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	<p>Roadways, Airways, Waterways, Ropeways, Pipeline, Transportation Infrastructure, Intermodal Transportation</p> <p>c) Modern Logistics Infrastructure (Indian Perspective) : Golden Quadrilateral, Logistics Parks, Deep Water Ports, Dedicated Freight Corridor, Inland Container Depots/Container Freight Stations, Maritime Logistics, Double Stack Containers/Unit Trains.</p>			<ul style="list-style-type: none"> • Donald J. Bowersox & David J Closs, Logistical Management- The Integrated Supply Chain Process, McGraw Hill Education • Ronald H Ballou & Samir K Srivastava, Business Logistics/ Supply Chain Management- Pearson • Donald J Bowersox, David J Closs & M Bixby Cooper, Supply Chain Logistics Management- The McGraw Hill Companies
IV	<p><u>Trends in & Future of Supply Chain</u></p> <p>a) Logistics in the Global Environment: Managing the</p>	Lecture, network designing, case study, video	15 lectures	<ul style="list-style-type: none"> • David Simchi Levi, Philip Kaminshy, Edith Simchi

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	<p>Global Supply Chain, Impact of Globalization on Logistics and Supply Chain Management, Global Logistics Trends, Global Issues and Challenges in Logistics and Supply Chain Management, Air Cargo Supply Chain and Operations, Roles & Responsibilities of parties, Air Cargo supply chain & associated documents</p> <p>b) Supply Chain Information Technologies, Performance Measurement in Supply Chain, Global Supply Chain Management v/s Domestic Supply Chain Management, Green Supply Chain, Benchmarking the Logistics Processing, Relevance of Finance in Supply Chain, Global Logistics and Global Supply Chains</p> <p>c) Future Supply Chains: Review latest (2010-2021) Research Papers / Government schemes for Infrastructural development wrt to SCM. News-paper & Articles on the relevant theme as mentioned by Course Instructor , Role of Block Chain Technology in Supply Change Management.</p>	<p>clips, documentaries, infrastructure project analysis etc.</p>		<p>Levi, Designing & Managing the Supply Chain - Concepts, Strategies and Case Studies Logistics</p> <p>• Donald Waters, An Introduction to Supply Chain</p> <p>Government Projects</p> <p>Martin Christopher, Logistics & Supply Chain Management - Strategies for Reducing Cost & Improving Services</p> <p>Moving Air Cargo Globally- Air Cargo & Mail Secure Supply chain & Facilitation Guidelines- ICAO</p>
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Reference Books:		
Title	Author(s)	Publisher
Designing & Managing the Supply Chain - Concepts, Strategies and Case Studies Logistics	David Simchi Levi, Philip Kaminshy, Edith Simchi Levi, Ravi Shankar (Indian Edition)	The McGraw Hill Companies
An Introduction to Supply Chain	Donald Waters,	Mc Millan International
Logistics & Supply Chain Management -Strategies for Reducing Cost & Improving Services	Martin Christopher-	FT Publishing
Business Logistics/ Supply Chain Management-	Ronald H Ballou & Samir K Srivastava,	Pearson Education
Supply Chain Logistics Management	Donald J Bowersox, David J Closs & M Bixby Cooper,	The McGraw Hill Companies
Designing & Managing the Supply Chain - Concepts, Strategies and Case Studies Logistics	David Simchi Levi, Philip Kaminshy, Edith Simchi Levi,	The McGraw Hill Companies

