COURSE TITLE	**GLOBAL LOGISTICS & SUPPLY CHAIN MANAGEMENT**
COURSE CODE	**04MB0388**
COURSE CREDITS	**4**

Course Outcomes: After completion of this course, student will be able to:

1 Analyze the components and dynamics of global supply chains, identifying key factors that impact logistics operations.

2 Develop effective supply chain strategies and network designs that align with organizational goals and market demands.

3 Evaluate different transportation modes and logistics operations to optimize distribution and reduce costs.

4 Apply technology and data analytics tools to enhance supply chain efficiency and decision-making processes.

5 Assess sustainability practices in supply chain management, proposing strategies for minimizing environmental impact while maintaining operational effectiveness.

Pre-requisite of course:NA

Teaching and Examination Scheme

Theory Hours	Tutorial Hours	Practical Hours	ESE	IA	CSE	Viva	Term Work
4	0	0	50	30	20	0	0

Contents : Unit	Topics	Contact Hours
1	**Introduction to Global Logistics and Supply Chain Management** Overview of Logistics and Supply Chain Management: Definitions, importance, and components of logistics and supply chain., The Supply Chain Concept: Understanding the supply chain from supplier to customer, including upstream and downstream processes., Globalization and Supply Chains: Impact of globalization on supply chain operations, challenges, and opportunities., Logistics vs. Supply Chain Management: Distinguishing between logistics and supply chain management, and understanding their interrelationship., Lean Supply Chain Theory: Focuses on waste reduction and maximizing value within the supply chain., Theory of Constraints (Goldratt): Identifies bottlenecks in the supply chain and focuses on eliminating them to increase throughput., Theory of Constraints (Goldratt): Identifies bottlenecks in the supply chain and focuses on eliminating them to increase throughput.	15

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Contents : Unit	Topics	Contact Hours
2	**Supply Chain Design and Strategy** Supply Chain Network Design: Factors influencing supply chain network configuration, including location and capacity decisions., Supply Chain Strategy: Developing effective supply chain strategies aligned with business objectives., Inventory Management: Techniques for managing inventory across the supply chain, including Just-in-Time (JIT) and Economic Order Quantity (EOQ)., Demand Forecasting: Tools and techniques for accurate demand forecasting to optimize supply chain performance., Just-in-Time (JIT) Inventory Theory: Focuses on minimizing inventory costs while ensuring supply chain efficiency., SCOR Model (Supply Chain Operations Reference): Optimizes performance across supply chain activities. Best Practice: Apply SCOR metrics to assess an FMCG company's efficiency.	15
3	**Transportation and Distribution Management** Transportation Modes and Management: Assess various transportation modes for optimizing cost, speed, and environmental impact in supply chain networks., Logistics Operations: Key logistics functions, including warehousing, inventory management, and order fulfillment, to streamline operational efficiency and customer satisfaction., Third-Party Logistics (3PL): The strategic advantages and risks associated with outsourcing logistics to 3PL providers, focusing on scalability, cost-effectiveness, and control over service quality., Global Distribution Strategies: Global distribution strategies by analyzing market-specific logistics, regulatory compliance, and the balance between centralization and localization.	15
4	**Technology and Sustainability in Supply Chains** Role of Technology in Supply Chain Management: The transformative impact of emerging technologies such as IoT, AI, and blockchain on supply chain efficiency, transparency, and competitiveness., E-logistics and E-supply Chain: The operational and strategic shifts induced by e-logistics in traditional and digital supply chains, emphasizing data-driven decision-making and real-time tracking., Sustainability in Supply Chain Management: Sustainable practices in supply chains by critically assessing eco-friendly strategies, regulatory compliance, and long-term environmental impacts., Case Studies: Real-world case studies of leading companies to assess the strategic application of supply chain management principles, focusing on innovation, adaptability, and sustainability outcomes.	15
Total Hours		**60**

Textbook :

1 Supply Chain Management: Strategy, Planning, and Operation, Sunil Chopra, Peter Meindl, Pearson Education, 2019

2 Supply Chain Management: Concepts and Cases , Rahul V. Altekar, PHI Learning, 2012

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Textbook :

3 Supply Chain Management: Text and Cases, Janat Shah, Pearson Education, 2020

4 Logistics & Supply Chain Management, Martin Christopher, Pearson Education , 2016

References:

1 Supply Chain Logistics Management, Supply Chain Logistics Management, Bowersox, Closs, Cooper, McGraw Hill Education, 2018

2 Logistics and Supply Chain Management, Logistics and Supply Chain Management, K. Shridhara Bhat, Himalaya Publishing , 2011

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

Distribution of Theory for course delivery					
Remember / Knowledge	**Understand**	**Apply**	**Analyze**	**Evaluate**	**Higher order Thinking / Creative**
10.00	10.00	20.00	20.00	20.00	20.00

Instructional Method:

1 PPT, Board work, Case study,

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