COURSE MODULE: LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Course Coordinator: **Mr. Likith N**				Academic Year: **2025-26**	
Department: **MBA**					
Course Code	Course Title	Core/Elective	Prerequisite	Contact Hours L: T: P	Total Hrs./ Sessions
MBA301	**Logistics & Supply Chain Management**	**Core**	**-**	**4:0:0**	**50**

Course Learning Objective:

1. To understand the basic concepts of logistics and supply chain management
2. To provide insights for establishing efficient, effective and sustainable supply chains.
3. To comprehend the role of Information Technology in warehousing, transportation and Inventory management in SCM.
4. To gain knowledge about international logistics and environment

Teaching-Learning Process (General Instruction):

1. To bridge academic concepts with real-world practices through interactions with experts from supply chain domain thereby enhancing practical understanding and industry relevance.
2. To encourage self-directed and technology-enabled learning through the use of pre-class digital content, online resources, and interactive classroom activities that promote continuous learning and application.
3. To promote teamwork, research aptitude, and communication skills through collaborative learning projects, group discussions, and presentations on contemporary supply chain topics.
4. To provide experiential learning opportunities by engaging students in simulations, role plays, and activities that develop competencies in managing cross-cultural teams, managing supply chain disruptions, and strategy formulations to increase efficiency and effectiveness throughout the system.
5. To develop analytical and problem-solving abilities by applying proven methods, frameworks, and models to real-world.

Module-1

Introduction to Logistics Management: Meaning of Logistics, Definition of Logistics, Objectives of Logistics, Types of Logistics, Need for Logistics Management, Evolution of logistics toward Supply chain Management, Logistics Industry in India. Logistical Activities, Logistics Costs, Expected cost of stock outs. Logistical Informational Requirements.

TLP: Power Point Presentation, Video demonstration or simulations, Chalk and Talk

Module-2

Strategic Logistic plan, Operating objectives of logistics planning, Flow of logistics planning, Developing Logistic strategy, Logistics System Design and Administration, logistic environment assessment, Pricing in logistics, Warehousing– scope, primary functions. Efficient Warehouse Management System, Types of Warehouses. Logistics and Environment, Methods and tools facilitating International Logistics and its challenges.

TLP: Power Point Presentation, Video demonstration or simulations, Chalk and Talk

Module-3

Introduction to Supply chain Concepts, significance and key challenges. Scope of SCM-historical perspective, essential features, Drivers of SCM, decision phases–process view, supply chain frame work, key issues in SCM and benefits. Managing uncertainty in Supply Chain, (Bullwhip Effect), Impact of uncertainties, forecasting in Supply Chain, Innovations in Supply Chain. Sourcing Decisions in Global

SCM, Key issues in Global sourcing, Outsourcing. Network design in the supply chain, factors affecting the network design decisions.
TLP: Power Point Presentation, Video demonstration or simulations, Chalk and Talk

Module-4

Introduction to Inventory Concepts: various costs associated with inventory, EOQ, buffer stock, lead time reduction, reorder point / re-order level fixation, ABC analysis, SDE/VED Analysis. Goals, need, impact of inventory management on business performance. Types of Inventories, Alternative approach for classification of inventories, components of inventory decisions, inventory cost management, business response to stock out, replenishment of inventory, material requirements planning.
TLP: Power Point Presentation, Video demonstration or simulations, Chalk and Talk.

Module-5

Introduction to Distribution Management: Designing the distribution network, role of distribution, factors influencing distribution, design options, distribution networks in practice. HUB & SPOKE V/S Distributed Warehouses. Mode of transportation and criteria of decision. Transportation Infrastructure. Factors impacting road transport cost, Packaging Issues in Transportation, role of containerization, Hazards in transportation, State of Ocean Transport, global alliances.
TLP: Power Point Presentation, Video demonstration or simulations, Chalk and Talk

Module-6

Introduction IT in SCM: Role of computer/ IT in supply chain management, Benchmarking concept, features and implementation. Vendor Managed Inventory, CPFRP, and Customer Service, Integrated Supply Chain and Logistics. Value addition in SCM.
TLP: Power Point Presentation, Video demonstration or simulations, Chalk and Talk

Course outcome

At the end of the course the student will be able to:

CO1 Demonstrate knowledge of the functions of logistics and supply chain management.

CO2 Relate concepts and activities of the supply chain to actual organizations.

CO3 Analyze the role of technology in logistics and supply chain management.

CO4 Evaluate cases for effective supply chain management and its implementation.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing marks for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements (passed) and earned the credits allotted to each course if the student secures not less than 50% in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

Continuous Internal Evaluation: There shall be a maximum of 50 CIE Marks. A candidate shall obtain not less than 50% of the maximum marks prescribed for the CIE

1. Two Unit Tests each of **50 Marks (Will be reduced to 25 marks)**

2. Two assignments each of **25 Marks** or **one Skill Development Activity of 50 marks**

to attain the COs and POs

The sum of two tests, two assignments/Skill Development Activities, will be **scaled down to 50 marks**

CIE methods /question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.

Semester End Examination:

The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.

- The question paper will have 8 full questions carrying equal marks.
- Each full question is for 20 marks with 3 sub questions.

- Each full question will have sub question covering all the topics.
- The students will have to answer five full questions; selecting four full questions from question number one to seven in the pattern of 3, 7 & 10 Marks and question number eight is compulsory.
- 40 percent theory and 60 percent problems in the SEE.

Suggested resources:

Books:

1. A Logistic approach to Supply Chain Management, Coyle, Bardi, Longley, Cengage Learning, Latest edition.
2. Supply Chain Management- Strategy, Planning and Operation, Sunil Chopra, Peter Meindl, D.V.Kalr, Pearson Latest edition.
3. Supply chain Logistics Management, Donald J Bowersox, Mc Graw Hill, 4th Edition.

Weblinks links and Video Lectures (e-Resources):

- https://r.search.yahoo.com/_ylt=Awrx.GMrk_Niq2gI7Te7HAx.;_ylu=Y29sbwNzZzMEcG9zAzMEdnRpZAMEc2VjA3Ny/RV=2/RE=1660158891/RO=10/RU=https%3a%2f%2fwww.researchgate.net%2fpublication%2f270876147_Supply_Chain_Management_4th_edition/RK=2/RS=l5xJm6fL0veF5TOaSQK.2R1Giqo-
- https://r.search.yahoo.com/_ylt=Awrx.GMrk_Niq2gI7je7HAx.;_ylu=Y29sbwNzZzMEcG9zAzQEdnRpZAMEc2VjA3Ny/RV=2/RE=1660158891/RO=10/RU=https%3a%2f%2fwww.oracle.com%2fwebfolder%2fs%2fassets%2febook%2fscm-complete-guide%2fpdf%2fscm guide.pdf/RK=2/RS=ztnJiPlSXhKgq3LJKrxxE5MspDo-
- https://r.search.yahoo.com/_ylt=Awrx.GMrk_Niq2gI7ze7HAx.;_ylu=Y29sbwNzZzMEcG9zAzUEdnRpZAMEc2VjA3Ny/RV=2/RE=1660158891/RO=10/RU=http%3a%2f%2ftrainingtancang.com%2fupload%2fnews%2febook-principles-of-supply-chain-management 9010.pdf/RK=2/RS=Drwv0C_5itZTS4CPslKgOZLYxQM
- www.proquest.com

Mapping of COS and POs

	PO1	PO2	PO3	PO4	PO5	PSO 1	PSO 2	PSO 3	PSO 4
CO1	1				2	3			
CO2			2				2		
CO3				3				2	
CO4		2		2					3