

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE - 560109
DEPARTMENT OF MANAGEMENT STUDIES
CO-PO Mapping



Course: LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Type: CORE

Course Code: 20MBAMM402

Theory (Lecture Class)		Practical/Field Work/Allied Activities		Total/Week	Total teaching hours
4		1		5	52
Marks				Total	Credits
Internal Assessment		Examination		100	3
40		60			

Aim/Objectives of the Course

1. To understand the basic concepts, processes and key elements of a supply chain.
2. To understand the elements and scope of logistics in supply chain management
3. To provide insights for establishing efficient, effective, and sustainable supply chains.
4. To comprehend the role of warehouse management
5. To gain knowledge about Inventory Management
6. To provide insights into International Logistics
7. To explain the role of technology in supply chain planning, visibility, and execution

Course Learning Outcomes After completing the course, the students will be able to

CO1	To understand the basic concepts related to logistics and supply chain management.	Applying (K3)
CO2	To Demonstrate knowledge of Warehouse Management in supply chain.	Applying (K3)
CO3	To relate concepts and activities of the supply chain to actual organizations.	Applying (K3)
CO4	To Evaluate cases for effective supply chain management and its implementation.	Applying (K3)
CO5	To Demonstrate knowledge of the functions of logistics and supply chain management.	Applying (K3)
CO6	To Highlight the role of technology and global market in logistics and supply chain management.	Applying (K3)

Syllabus Content

Module-1 Supply Chain

Concept, significance and key challenges. Scope of SCM- historical perspective, essential features, decision phases – process view, supply chain framework, key issues in SCM and benefits.

Definition and scope of Logistics. Elements of Logistics, types, incremental value delivery through Logistics management. Innovations in Supply Chain. Estimating customer demand, forecasting in Supply Chain.

Case Study.

LO:At the end of this session the student will be able to

1. **Understand** the Logistics system
2. **Apply** the concepts of process view related to supply chain management

CO1
7 hours
PO1,
PSO1



<p>Module -2 Warehouse Management System</p> <p>Warehousing – scope, primary functions. Efficient Warehouse Management. Types of Warehouses. Warehouse Layout Design, criteria. Warehouse Management System, Distribution Management, Designing the distribution network, role of distribution, factors influencing distribution, design options, distribution networks in practice, network design in the supply chain, factors affecting the network design decisions. HUB & SPOKE vs Distributed Warehouses. Case Study</p> <p>LO:At the end of this session the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the system of warehouse management 2. List the various types of warehouse management systems 3. Understand the system of Distribution management 	<p>CO1 7 hours PO1, PO2, PSO1</p>
<p>Module -3 Inventory Management</p> <p>Concept, 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. Dealing with demand uncertainty in Supply Chain- managing uncertainty in Supply Chain, (Bullwhip Effect), Impact of uncertainties. Case Study</p> <p>LO:At the end of this session the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the system of Inventory Management 2. List the various types of Inventory Management 	<p>CO1 8 hours PO1,PO3 PSO1</p>
<p>Module -4 Transportation</p> <p>Role, functions, mode of transportation and criteria of decision. Transportation Infrastructure. Factors impacting road transport cost, hazards in transportation, State of Ocean Transport, global alliances. Packaging Issues in Transportation, role of containerization. Case Study</p> <p>LO:At the end of this session the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the system of Transportation 2. List the various types of Transportation 	<p>CO1 6 hours PO1, PSO1</p>
<p>Module -5 Logistics Management</p> <p>Logistics of part of SCM, logistics costs, logistics, sub-systems, inbound and out bound logistics bullwhip effects in logistics, distribution and warehousing management. Demand Management and Customer Service: Demand Management, CPFRP, customer service, expected cost of stock outs. Recent Issues in SCM: Role of computer/ IT in supply chain management, CRM Vs SCM, Benchmarking concept, features and implementation, outsourcing – basic concepts, value addition in SCM. Case Study</p>	<p>CO1 8 hours PO1, PSO1</p>

<p>LO:At the end of this session the student will be able to</p> <ol style="list-style-type: none"> Understand the system of Logistics management List the various types of Logistics management systems 																																
<p>Module - 6 International Logistics</p> <p>Logistics and Environment, Methods and tools facilitating International Logistics, challenges, Integrated Supply Chain and Logistics Value Chain, Supply Chain Security Initiatives in the USA, Logistics Industry in India. Sourcing Decisions in Global SCM- Logistics, trends, Key issues in Global sourcing, Factors influencing Outsourcing. Performance Management in Supply Chain introduction. Case Study</p> <p>LO:At the end of this session the student will be able to</p> <ol style="list-style-type: none"> Understand the system of International Logistics management List the various types of International Logistics management systems 		<p>CO-6 10 hours PO3, PSO1, PSO2</p>																														
<p>Text Books</p> <table border="1"> <thead> <tr> <th>Sl No</th> <th>Title of the book</th> <th>Name of the Author/s</th> <th>Publisher Name</th> <th>Edition and year</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A Logistic approach to Supply Chain Management</td> <td>Coyle, Bardi, Longley</td> <td>Cengage Learning</td> <td>Latest edition</td> </tr> <tr> <td>2</td> <td>Integrated Supply Chain and Logistics Management</td> <td>Rajat K. Baisya</td> <td>Sage</td> <td>2020</td> </tr> <tr> <td>3</td> <td>Supply Chain Management- Text and Cases</td> <td>Janat Shah</td> <td>Pearson</td> <td>Latest edition</td> </tr> <tr> <td>4</td> <td>Supply Chain Management- Strategy, Planning and Operation</td> <td>Sunil Chopra, Peter Meindl, D.V.Kalra</td> <td>Pearson</td> <td>Latest edition</td> </tr> <tr> <td>5</td> <td>Marketing Channels</td> <td>Anne Coughlan, Anderson, Stern and El-Ansary</td> <td></td> <td></td> </tr> </tbody> </table>			Sl No	Title of the book	Name of the Author/s	Publisher Name	Edition and year	1	A Logistic approach to Supply Chain Management	Coyle, Bardi, Longley	Cengage Learning	Latest edition	2	Integrated Supply Chain and Logistics Management	Rajat K. Baisya	Sage	2020	3	Supply Chain Management- Text and Cases	Janat Shah	Pearson	Latest edition	4	Supply Chain Management- Strategy, Planning and Operation	Sunil Chopra, Peter Meindl, D.V.Kalra	Pearson	Latest edition	5	Marketing Channels	Anne Coughlan, Anderson, Stern and El-Ansary		
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Teaching and Learning Methods

1. Lecture class: 52
2. Practical classes: 0

Assessment

Type of test/examination: Written examination

Continuous Internal Evaluation(CIE) : 40 marks (Average of three tests will be considered)

Semester End Exam (SEE): 100 marks (students have to answer all main questions) which will be reduced to 60 Marks.

Test duration: 1 :30 hrs **Examination duration:** 3 hrs

PO1: Acquire sufficient theoretical knowledge and are enabled to apply them to solve practical problems in business and other organizations/ institutions of importance.

PO2: Apply effective communication skills with a high degree of lateral and critical thinking that enhances learn ability, developed for being continuously employable.

PO3: Demonstrate leadership qualities, ethically sound, enabled with decision making skills that reflect a high degree of social consciousness

PO4: Recognize the need for sustained research orientation to comprehend a growing complex, economic, legal and ethical environment

PO5: Possess self- sustaining entrepreneurship qualities that encourages calculated risk taking.

PSO1: Develop viable Managerial solutions in the dynamic Business eco system

PSO2: Establish and Encourage Entrepreneurial zeal along with Ethical Values in the business

CO	K- Level	PO					PSO1	PSO2
		PO1	PO2	PO3	PO4	PO5		
18MBAMM402	K3							
CO1	K3	3					3	
CO2	K3	3	2				3	
CO3	K3	3		2			3	
CO4	K3	3					3	
CO5	K3	3					3	
CO6	K3	3					3	2

V. Vidyasree
Course In charge

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