

Name of College: S. R. Luthra Institute of Management								
<b>Faculty</b>	Management			<b>Program</b>	Master of Business Administration (M.B.A.)			
<b>Year</b>	II			<b>Version</b>	1.0			
<b>Semester</b>	4			<b>Effective From</b>	June 2024			
<b>Course Code</b>	MGMB17403	<b>Course Name</b>	Logistics and Supply Chain Management (LSCM)					
<b>Teaching Scheme</b>					<b>Examination Scheme</b>			
<b>Credits</b>	<b>Lecture (L)</b>	<b>Tutorial (T)</b>	<b>Practical (P)</b>	<b>ME</b>	<b>CE</b>	<b>SE</b>	<b>V</b>	<b>Total</b>
4	4	0	0	30	40	50	---	120

**Course Outcomes:**

<b>CO1</b>	<i>Discuss</i> logistics and supply chain theories, practices, and concepts.
<b>CO2</b>	<i>Critically</i> analyse organizational challenges/problems in logistics and supply chain systems and identify relevant models and approaches to resolve these.
<b>CO3</b>	<i>Prioritize</i> cost-effective and sustainable approaches to enhance competitive advantage through supply chain integration and restructuring strategies.
<b>CO4</b>	<i>Evaluate</i> contemporary supply chain practices which are globally prevalent.

**Mapping Course Outcomes to Program Outcomes:**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	3	3	1	2	1	1
<b>CO2</b>	3	3	2	2	2	1
<b>CO3</b>	3	3	1	2	2	1
<b>CO4</b>	3	2	2	3	1	1

Sr. No.	Module	Description	CO	Marks	Hours
1	I	<b>Logistics and Supply Chain Management :</b>	1	13	10
		• Definition and Concepts of Logistics			
		• Definition and Concepts of Supply chain			
		• Difference between logistics and Supply Chain			
		<b>Logistics Management - Logistical Functions:</b>			
		• Procurement (Decisions and Strategies)			
		• Order Processing (Process and Strategies)			
		• Inventory Management (costs, managing uncertainty, and Bullwhip Effect).			
		• Warehousing (decisions and strategies).			
		• Transportation (Logistics Service Providers 3PL's & 4PL's).			
		• Packaging and Materials handling equipment.			
		<b>Supply Chain Management:</b>			
		• Decisions in Supply Chain			
		• Enablers in Supply Chain			
• Importance of Supply Chain					
<b>Outsourcing: Make v/s Buy:</b>					
2	II	<b>Network Design:</b>	2	12	12
		• Define the network design process			
		• Examine the LSCM network alternatives			
		• Conduct a Facility Location analysis			
		• Make decisions regarding network and facility locations			
		• Develop an implementation plan.			
		<b>Transportation Network:</b>			
		• <b>Drivers of Transportation Decisions</b>			
		○ Design options			
		○ Direct shipment network			
		○ Direct shipping via milk run			
○ Distribution centre					
○ Cross docking					

		<ul style="list-style-type: none"> <li>○ Shipping via DC using milk runs</li> <li>○ Tailored network</li> <li>● <b>Routing, Scheduling, And Sequencing In Transportation.</b></li> <li>● <b>Vehicle Routing Problems (VRP)</b> <ul style="list-style-type: none"> <li>○ Travelling Salesman Problem (TSP)</li> </ul> </li> </ul>			
		<p><b>Reverse Logistics:</b></p> <ul style="list-style-type: none"> <li>● Definition, reasons, benefits</li> <li>● Elements of reverse logistics</li> </ul>			
3	III	<p><b>Drivers of Supply Chain Performance:</b></p> <ul style="list-style-type: none"> <li>● <b>A framework for structuring drivers</b> <ul style="list-style-type: none"> <li>○ Facilities</li> <li>○ Inventory</li> <li>○ Transportation</li> <li>○ Information</li> <li>○ Sourcing</li> <li>○ Pricing</li> <li>○ Obstacles to achieving fit</li> </ul> </li> </ul> <p><b>Supply Chain Performance Measures:</b></p> <ul style="list-style-type: none"> <li>● <b>Customer service and cost trade-offs</b> <ul style="list-style-type: none"> <li>○ Impact of out-of-stock</li> <li>○ Setting customer service objectives and priorities</li> </ul> </li> </ul> <p><b>Supply Chain Integration:</b></p> <ul style="list-style-type: none"> <li>● Internal Integration and External Integration (ECR/VMI/CPFR)</li> </ul> <p><b>Supply Chain Restructuring:</b></p> <ul style="list-style-type: none"> <li>● Strategy Fit</li> <li>● Risk Analysis</li> </ul>	2 & 3	13	10
4	IV	<p><b>Synchronous Supply Chain:</b></p> <ul style="list-style-type: none"> <li>● Quick response logistics</li> <li>● Agile Supply Chains.</li> <li>● Sustainable Supply Chain Management.</li> <li>● The trend towards globalisation in the supply chain.</li> </ul>	3 & 4	12	8

**References:**

<b>Books:</b>	
1.	<i>Shah Janat (2016), Supply Chain Management: Text and Cases (2e). Pearson Education, Limited.</i>
2.	<i>Chopra, S., &amp; Meindl, P. (2014). Supply Chain Management: Strategy, Planning, and Operation. Pearson Education, Limited.</i>
3.	<i>Christopher, M. (2016). Logistics &amp; Supply Chain Management. F. T Publication.</i>
4.	<i>Agarwal D. K. (2003). Textbook of Logistics and Supply Chain Management. Macmillan.</i>
5.	<i>Satish C. Ailawadi. &amp; Rakesh Singh (2005). Logistic Management. Prentice-Hall of India Pvt Ltd., New Delhi.</i>
6.	<i>Kulkarni, Sarika (2004). Supply Chain Management. New Delhi Tata McGraw Hill.</i>
7.	The International Journal of Logistics Management
8.	Journal of Supply Chain Management, Logistics and Procurement
9.	The Journal of Business Logistics (JBL)
10.	<a href="https://www.ratelinx.com/resources/9-supply-chain-books-worth-a-look/">https://www.ratelinx.com/resources/9-supply-chain-books-worth-a-look/</a>

