

Semester	III	Specialization	Supply Chain Management
Course Code	307SCM	Type	Subject - Elective
Course Title	Managing Material Flow in Supply Chains		

Course Objectives:

1	To understand flow of materials in a Supply Chain
2	To appreciate the role of Transportation and Warehouse Management
3	To understand the essentials of Packaging and Materials Handling from Logistics point of view
4	To understand Government statutory requirements related to Logistics Management

Syllabus:

Unit Number	Contents	Number of Sessions
1	Flows in SC: Forward & Reverse SC, Product, Services, Information, Funds, Demand, Forecast flows in Upstream & Downstream direction	4 + 1
2	Transportation Infrastructure & Operations: Transport functionality, Principles, Mode Selection criteria, Transportation Service Levels, Transportation Economics and Pricing – economic drivers, costing, carrier pricing strategy. Transport Administration – operational management, consolidation, negotiation, control, Documentation – L/R, B/L, AWB, IGM	5 + 2
3	Warehouse Management: Warehousing – economic benefits, service benefits. Warehousing Operations – handling, storage. Warehouse Ownership Arrangements, Warehouse Decisions – site selection, design, product mix analysis, expansion, material handling, layout, Warehouse Management System	5 + 1
4	Packaging & Materials Handling: Packaging Perspectives, Packaging for Materials Handling Efficiency – package design, unitization, communication. Material Handling – basic considerations, mechanized systems, semi-automated, automated Systems, information directed Systems, special handling considerations	5 + 1
5	Role of Government in Logistics: Overview of CST, LST, Implications of proposed GST, Excise Duties, Octroi, Entry Tax, CENVAT, Motor Vehicles Act, Customs Act	5 + 1

Learning Resources:		
1	Text Books	<p>Supply Chain & Logistics Management by Bowersox, Closs & Cooper, TMGH, 2nd Edition.</p> <p>Logistics and Supply Chain Management- Cases and Concepts by G. Raghuram, N Rangaraj, Macmillan India, 1st Edition.</p> <p>Fundamentals of SCM Twelve drivers of competitive advantage by John Mentzer, Sage Publication, 1st Edition</p>
2	Reference Books	<p>Business Logistics/Supply Chain Management by Ronald Ballou, Pearson Education, 5th Edition.</p> <p>A Logistics Approach to Supply Chain Management by Coyle, Langley, Gibson, Novack, Bardi, Cengage Learning, India Edition, 2009.</p>
3	Supplementary Reading Material	Advanced Supply Chain Management by Poirier C C, Berrett, Koehler Publishers, 1999.
4	Websites	<p>http://www.inboundlogistics.com/cms/</p> <p>http://www.ciilogistics.com/</p> <p>http://www.tcil.com/tcil/</p> <p>http://cscmp.org/</p>
5	Journals	<p>Commodity Futures Markets, Warehouse Receipts and the Dynamics of Warehousing Infrastructure: The Indian Scenario by Pillai, Manoj., IUP Journal of Infrastructure, Dec2010, Vol. 8 Issue 4</p> <p>What Can You Do About Logistics in India?, Frentzel, David, World Trade: WT100, Mar2011, Vol. 24 Issue 3</p> <p>Technological Innovations in the Indian Logistics Industry: The Case of Freight Handling, Srinivas, Kolluru; Krishna, Kolluru., IUP Journal of Infrastructure, Sep2009, Vol. 7 Issue 3/4,</p>