

Semester	IV	Specialization	Supply Chain Management
Course Code	405SCM	Type	Subject - Elective
Course Title	Green Logistics and Supply Chains		

Course Objectives:

1	To sensitize the students to external costs of logistics and supply chains (climate change costs).
2	To analyze the environmental costs of logistics and how to deal with them effectively.
3	To highlight how different types of environmentally sustainable practices should be adopted at different stages of supply chains.

Syllabus:

Unit Number	Contents	Number of Sessions
1	Environmental Sustainability & Green Logistics: Concept of Green Logistics, Green Logistics – Rhetoric & reality, Key drivers for greening of Logistics & Supply Chains, Benefits of Green Supply Chains	4 + 1
2	Environmental Costs of Logistics: Arguments for and against internalizing environmental costs of logistics, Monetary calculation of environmental costs , Concept of Carbon Credits, Guidelines for carbon foot printing, Carbon foot printing process, success factors in carbon foot printing, Carbon Auditing of Supply Chains	5 + 2
3	Reverse Logistics for Waste Management: Waste Management in the context of reverse logistics, Waste Treatment Legislation, Reuse & refurbishment markets and take back business models, Managing waste as a part of sustainable reverse process.	5 + 1
4	Public Policy and Green Supply Chains: Role of Government, Policy Measures, Energy Efficiency, Cutting Emissions.	5 + 1
5	Green Supply Chains: Case Studies on Green Initiatives by Manufacturers, Green Initiatives by Government & Non-Profit Organizations, Green Initiatives by Retailers, Green Initiatives by Consumers.	5 + 1

Learning Resources:

1	Text Books	Green Logistics – Improving the Sustainability of Logistics, Edited by McKinnon, Cullinane, Brown &Whiteing, Published by Chartered Institute of Logistics & Transports, UK.
2	Reference Books	Total Supply Chain Management by Basu& Wright, Elsevier, 1 st Ed.
3	Supplementary Reading Material	Greening the Supply Chain- A guide for Asian Managers by Purba Halady Rao, Response Books, 1 st Edition.

4	Websites	www.greenlogistics.org www.greenlogisticsforum.com
5	Journals	<p>Why business needs to green the supply chain by Hoskin, Paul., University of Auckland Business Review, Autumn2011, Vol. 13 Issue 1</p> <p>How Green Are Your Supply Chains? By Crandall, Richard E., Industrial Management, May/Jun2006, Vol. 48 Issue 3.</p> <p>Greening The Supply Chain: A New Initiative In India With Special Reference To Chhattisgarh by Ashraf, Gazala Yasmin; Raichoudhary, Arpita; Mukherjee, P. N.; Srivastava, R. K. Pranjana., The Journal of Management Awareness, Jan-Jun2009, Vol. 12 Issue 1</p> <p>The Economic Value of a Sustainable Supply Chain by Mefford, Robert N., Business & Society Review (00453609), Spring2011, Vol. 116 Issue 1</p>