

4th semester	21MBA403K	Green Supply Chain Management	L-T-P 3-0-0	3 credits	35 Hours
--------------	-----------	-------------------------------	----------------	-----------	----------

Course Objective:

- 1) To provide foundational knowledge associated with the green supply chain.
- 2) To teach the implication of today's most pressing environmental issues
- 3) To describe how the various green supply chain practices can actually save money, increase efficiency and reduce delivery time.

MODULE-I

Introduction – Traditional Supply Chain and Green Supply Chain – Environmental Concern and Supply Chain – Closed-loop Supply Chain – Corporate Environmental Management – Green Supply Chain (GSCM): Definition, Basic Concepts – GSCM Practices

MODULE-II

Design for the Environment (DFE) or Eco-Design – Eco-Design and Supplier Relationships – Definitions of Eco-Design – Tools of Product Eco-Design – Involving suppliers in product eco-design: Drivers, Challenges and Successful factors

Green Procurement and Purchasing – Definitions of green purchasing – Drivers of green purchasing – Green purchasing strategies – Green purchasing performance measurement – Green Supplier Development and Collaboration.


MODULE-III

Green Manufacturing or Production: Evolution, Definitions – 4Re's: recycling, remanufacturing, reuse and reduction – Closed-loop Manufacturing – ISO 14000 systems – Life Cycle Analysis (LCA) – Lean Manufacturing for Green Manufacturing or Production.

Green Logistics and Transportation – Definitions of Green Logistics – Critical drivers of Green Logistics – Green transportation and logistics practices – Environmental impacts of transportation and logistics – Closing the Loop: Reverse Logistics

Books:

1. Joseph Sarkis, Yijie Dou. Green Supply Chain Management: A Concise Introduction, Routledge.
2. Charisios Achillas, Dionysis D. Bochtis, Dimitrios Aidonis, Dimitris Folinas. Green Supply Chain Management, Routledge,.
3. Hsiao-Fan Wang, Surendra M. Gupta. Green Supply Chain Management: Product Life Cycle Approach, McGraw Hill publishing,
4. Stuart Emmett, Vivek Sood. Green Supply Chains: An Action Manifest by Stuart Emmett, Wiley publications,.


 Director, Curriculum Development
 Biju Patnaik University of Technology, Odisha
 Rourkela