

OTM-811, Supply Chain Management

1. The term supply chain management (SCM) denotes the integration of key business processes from end user through original suppliers for the purpose of adding value for the firm, its key supply chain members, to include customers and other stakeholders. This course presents a framework for SCM that requires cross-functional integration of key business processes within the firm and across the network of firms that comprise the supply chain. This course approaches SCM from a managerial perspective and introduces concepts in a format useful for management decision-making. Terms, concepts, and principles are examined in The light of how they interrelate and interface within the firm and across the supply chain. The student will be exposed to leading edge thinking on supply chain techniques as well as practical tools and methods for its implementation.

Content

2. Topics covered in this course include introduction to the typical supply chain, concept of value chains, bullwhip effect and forecasting models, supply chain models including SCOR, Performance indicators for a supply chain, relationship with suppliers, procurement, production, transport, inventory, warehousing & customer management, holistic and integrated supply chains, latest developments and directions.

3. Objectives

- a. An understanding of what supply chain management is and what its not.
- b. An understanding of the individual processes of supply chain management and their interrelationships within individual companies and across the supply chain
- c. An understanding of the management components of supply chain management
- d. An understanding of the tools and techniques useful in implementing supply chain management
- e. Knowledge about the professional opportunities in supply chain management.

Outcomes

4. Upon completion of this course, the student should:
 - a. Understand how supply chain strategy can provide a competitive advantage for organizations

- b. Recognize supply chain approaches to support products in different phases of their lifecycle
- c. Analyse the balance between customer satisfaction level and inventory management policies
- d. Integrate the role of manufacturing capabilities in pursuit of supply chain objectives
- e. Leverage supplier and distributor capabilities within value generating business processes
- f. Design lean supply chains with the appropriate levels of risk
- g. Apply information systems to support collaboration and visibility of supply chains

5. **Text and reference books**

- a. Supply Chain Management: Strategy, Planning, and Operation (2015) by Sunil Chopra, Peter Meindl.
- b. Supply Chain Management: Processes, Partnerships, Performance (2014) by Douglas M. Lambert
- c. Logistics and Supply Chain Management (2016) by Martin Christopher
- d. Additional readings from case studies and journal articles