IMPC5005 SUPPLY CHAIN MANAGEMENT (3-0-0)

Course Objectives:

1. To analyze the supply chain scenario and to make understand the students the insights on supply chain process from sourcing to distribution
2. To enhance the supply chain integration and sustainable supply chain strategic skills among the students

Module I: Supply Chain Foundations

Supply Chain as a network of entities, concept of Value Chain, Impact of Supply Chain Management on Sales, Cost, Profit, Profitability, Profit and Loss Account, and Customer Accounts Profitability. Centralized and Decentralized Supply Chains: their coordination and aligning business activities. Demand forecasting and management: Methods, Bull whip effect, CRM in supply Chain Management.

Module II: Distribution Management

Distribution Channels: Structure and Operation, Distribution Cost Components, Pipe line Inventory and Response Considerations, Hub and Spoke Models, Cross docking, Lots streaming, Container Selection, Vendor Consolidation, Warehousing: Facility location and Network design, Vehicle Loading and Vehicle Routing Methods, Lead time Components and their Compression, Use of IT for tracking in supply chain. Supply chain sustainability in business management.

Module III: Aligning logistics to customer needs

Quick response logistics, Green Logistics, Reverse Logistics, Vendor Managed Inventory, Cross docking, Packaging Innovations, Third Party Logistic and Service concepts and applications. Procurement Logistics: Global Vs. Domestic Sourcing, Landed CostComputation, Vendor Rating: Contract Negotiation, Consolidation, Self Certified Vendor Management, Individual component Vs. Module Purchases, Vendor Development and Vendor Relationship Management, Vendor Performance Monitoring.

Course Outcomes:

CO-1: Estimate and evaluate the concept of operational integration and global supply chain integration, different process of supply chain, role of different drivers and demand forecasting. Define and establish the strategic importance of logistics to achieve business success by creating value through supply chains.

CO-2: Interpret the foundational role of logistics as it relates to transportation and warehousing. How to align the management of a supply chain with corporate goals and strategies. Strengthen integrative management analytical and problem-solving skills.

CO-3: Learn how logistic and supply chain strategies can create value generation and utilize IT applications. Design and provide a practical approach to support the business' decision-making within the context of supply chain management and the real world.

CO-4: Analyse performance measures to achieve sustainability in supply chain operations. Evaluate environmental, social, and governance risks in end-to-end supply chains. Interpret reverse logistics, recall and recovery operations and spillover effect.

Books:

- Supply Chain and Logistics Management, Bowersos, Mc Graw Hill
- Operations and Supply Chain Management, Chase,Shankar, Jacobs, Mc GrawHill
- Supply Chain and Logistics Management, Janat Shah