

Indian Institute of Management Amritsar

AGM Module 2

Managing Resilient Supply chain

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Course description: The function of supply chain management is to design and manage the processes, assets, and flows of material and information required to satisfy customer's demands. From corporate giants to small businesses, the optimization of supply chain techniques and operations practices plays a critical factor in establishing a competitive advantage and maintaining business continuity. This course introduces the concept of supply chain management and identifies the relationship of supply chain design with its ability to respond to a risk or disruption. The course is designed to identify and understand the relationship between various supply chain entities and their performance while examining a number of areas including strategic positioning, risk & uncertainties.

Learning Outcomes/Course Objectives

1. Understanding the key drivers of supply chain performance and their relationships with the business strategy as well as with the other functions of an enterprise such as marketing, production and finance.
2. To develop analytical and problem-solving skills necessary to design solutions for different supply chain network problems and to understand the information technology in supply chain optimization.
3. To understand the complexity of inter-firm and intra-firm coordination in achieving the supply chain integration through different programs such as jointly managed inventories, strategic alliances, contracts, and industry based best practices.

Session Plan:

Session	Topics covered	Contents
MRSC1.	Introduction to SCM	SCM strategy, classification of supply chain, key supply chain drivers
MRSC 2.	Understanding Supply chain Risk	Risk classification, risk mitigation strategies
MRSC 3.	Sourcing strategy & supplier selection	Role of suppliers, how to identify the right sourcing strategy, supplier evaluation methods
MRSC 4.	Sourcing decisions under risk	Global supply chain network under risk
MRSC 5.	Supply chain Network & Logistics Planning -I	Types of distribution models, cross docking, cost estimation in various methods
MRSC 6.	Supply chain Network & Logistics Planning-II	Types of distribution models, cross docking, cost estimation in various methods
MRSC 7.	Managing Information Distortion in Supply chains	Bullwhip effect, supply chain strategies to minimize the demand distortion, state of the art practices
MRSC 8.	Centralized and decentralized supply chains	Supply chain inventory decisions to handle uncertainty – centralized vs decentralized approach
MRSC 9.	Simulation of Supply chain Risk	Monte Carlo simulation for risk estimation
MRSC 10.	Industry 4.0 & innovation for supply chain resilience	Technology driven innovative practices for supply chain agility & responsiveness