

OTM-451 Essentials Supply Chain Management

Cr Hrs: 3.0

Course Description
The course will explore the major elements of 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.
Course Objectives
The objectives of this course are to provide the student with: <ol style="list-style-type: none">1. An understanding of the primary differences between logistics and supply chain management2. An understanding of the individual processes of supply chain management and their interrelationships within individual companies and across the supply chain3. An understanding of the management components of supply chain management4. An understanding of the tools and techniques useful in implementing supply chain management5. Knowledge about the professional opportunities in supply chain management.
Learning Outcomes
After taking the Supply Chain Management course, the student will be able to: <ul style="list-style-type: none">• Understand how supply chain strategy can provide a competitive advantage for organizations• Recognize supply chain approaches to support products in different phases of their lifecycle• Analyze the balance between customer satisfaction level and inventory management policies• Integrate the role of manufacturing capabilities in pursuit of supply chain objectives• Leverage supplier and distributor capabilities within value generating business processes• Design lean supply chains with the appropriate levels of risk• Apply information systems to support collaboration and visibility of supply chains
Required Course Material
The textbook for this course is: <ul style="list-style-type: none">• Supply Chain Management 4th Edition), by Sunil Chopra and Peter Meindl• Supply Chain Management: Processes, Partnerships, Performance, 4th Edition, by Douglas M. Lambert• Essentials of Supply Chain Management, Third Edition, by Michael H. Hugos
Case studies
A course pack will be provided to each student with the case studies and articles in it.
Course Content (Weekly)
Weekly breakdown is given below

Week	Lecture Topic	Reading
1	Introduction to the Course; <ul style="list-style-type: none"> ▪ Course Outline ▪ Course Policies ▪ Course Rationale 	
2	<ul style="list-style-type: none"> ▪ Logistics vs Supply chain Management ▪ Value stream vs value chains 	
3	<ul style="list-style-type: none"> ▪ Demand Management & Forecasting 	
4	<ul style="list-style-type: none"> ▪ Transportation and Inventory management 	
5	<ul style="list-style-type: none"> ▪ Procurement and purchasing, partnerships 	
6	<ul style="list-style-type: none"> ▪ Value creation & innovation, Role of Channel Master 	
7	<ul style="list-style-type: none"> ▪ Supply Chain Strategies ▪ Outsourcing vs Off shoring 	
8	<ul style="list-style-type: none"> ▪ Sustainable supply chains ▪ Green Supply Chains 	
	MIDTERM	
9	<ul style="list-style-type: none"> ▪ New directions in supply chains ▪ Agile supply chains 	
10	<ul style="list-style-type: none"> ▪ Reverse Logistics ▪ Traceability 	
11	<ul style="list-style-type: none"> ▪ SCOR model ver 10.0 ▪ Supply chain metrics and performance indicators 	
12	<ul style="list-style-type: none"> ▪ Supply Chain optimization ▪ process improvement techniques 	
13	<ul style="list-style-type: none"> ▪ Role of information technology in a Supply Chain ▪ ERP 	
14	Project presentations	
15	Project presentations	
	FINALS	