

## Logistics and Supply Chain Management

<b>Code</b> CE 859	<b>Credit Hours</b> 3-0
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### Course Description

This course has been designed to provide students with the needed knowledge of logistics and supply chain management. In this course students understand the basics of logistics and its components. To familiarize students with Domestic and International Transportation and Logistics Issues. To introduce Inventory Management, Logistics Technology and Logistics Outsourcing. The students are familiarize with the fundamental concept of supply chain management. Students are also taught to comprehend cultural and technological impact on global supply chain development. Managing supply chain risks and costing issues are also covered in the syllabus.

### Textbook:

1. Stroh, Mi. B. A. Practical Guide to Transportation and Logistics, 3rd Edition, Logistics Network, Inc., Dumont, NJ. 2006.
2. John J L, Supply Chain Management and Transport Logistics. Routledge Advanced Texts in Economics and Finance. 2011

### Reference Book:

1. Martin Christopher. Logistics and Supply Chain Management (4th Edition), 2011
2. b. Patrick S. McCarthy. Transportation Economics; Theory and Practice; A case study Approach., Blackwell Publishers Inc. 2001.
3. Supply chain management concepts and cases by Altekar, Rahul V.
4. Supply chain management strategy, planning and operation by Chopra, Sunil | Peter Meindl | D. V Kalra

### Prerequisites

Nil

### ASSESSMENT SYSTEM FOR THEORY

Quizzes	10-15%
Assignments	5-10%
Mid Terms	25%
ESE	40-50%
Term Project	10%

## Teaching Plan

Week No	Topics	Learning Outcomes
1	Introduction	Course outlines, objectives, teaching plan, assessment methods Introduction to supply chain management The objectives of supply chain Types of supply chains The importance of supply chain
2- 3	Supply Network Design and Optimization	Competitive and Supply Chain Strategies Achieving Strategic Fit Expanding Strategic scope Challenges to Achieving and Maintaining Strategic Fit
4-5	Strategy and Inventories Management	Service oriented supply chains Managing inventories in supply chain Procurement and outsourcing strategies
6-7	Supply Chain Drivers and Metrics	Impellers of Supply Chain Financial Measures of Performance Framework for Structuring Drivers Facilities Inventory Transportation Information Sourcing Pricing
8	Transportation in Supply Chain	The Role of Transportation in Supply Chain Mode of Transportation and Their Performance Transportation Infrastructure and Policies Design Options for Transportation Networks Trade-offs in Transportation Design The Role of IT in Transportation Risk Management in Transportation
9	<b>MID SEMESTER EXAM</b>	
10-11	Designing Distribution Networks	The role of distribution in the Supply Chain Factors Influencing Distribution Network Design Design Options for a Distribution Network Online Sales and the Distribution Network Distribution Networks in Practice

12-13	Logistics and Transportation	Logistical & Transportation Planning Methods: Planning, design and operations of complex logistics systems and associated costs.
14-16	Freight Transport and Warehouse Management	Strategy and functionality Operations Warehouse ownership classification Warehouse planning
17	Term Project and Presentations	Development of a comprehensive Logistics and Supply Chain Management project Application of course concepts to a real-world scenario Group presentations and peer review
18	<b>END SEMESTER EXAM</b>	