

**SHORT-TERM PROGRAMME IN
LOGISTICS AND SUPPLY CHAIN MANAGEMENT**

PROGRAMME STRUCTURE

Sl. No	Course Code	Title of the Courses	Marks for Examinations			Credits
			Continuous Internal Assessment	Term-End Examinations	Total	
1	LSM 11	Principles and Practices of Logistics Management	30	70	100	4
2	LSM 12	Supply Chain Management	30	70	100	4
TOTAL			60	140	200	8

DETAILED SYLLABUS

Course Title : Principles and Practices of Logistics Management

Course Code : LSM 11

Course Credit : 4

Course Objective:

- To provide an opportunity to learn the fundamentals of logistics
- To relate the concepts to real life business and to become efficient suppliers.

Course Outcome:

- Explain the functions of logistics system.
- Discuss the principles and importance of packing
- Enumerate the Role of Information Systems in improving the logistics efficiency
- List the logistics techniques

BLOCK I: Overview Logistics

Origin of Business Logistics - Logistics organization and its role in a manufacturing unit - Role of Logistics in Economy/Organisation - Functions of the Logistics system - Inbound Logistics - Outbound logistics - In plant logistics

BLOCK II: Procurement and Outsourcing

Procurement and Outsourcing - Integrated Logistics Management - Routing of materials from origin to destination - role of physical delivery - Importance of Packaging- Principles of Packaging - Role, Cost, Economics - Packaging Materials - Customer Service functions in logistics.

BLOCK III: Global Logistics

Global Logistics scenario - Logistics hubs and distribution Strategy - Role of Information Systems in improving the efficiency – Containerisation as an enabler of logistics strategy - Cargo security - Logistics strategy for perishables / Dangerous goods

BLOCK IV: Logistics Performance

Financial aspects in Logistics performance - Role of 3 PL and 4 PL – Logistics infrastructure for 3PL - Types and functions of warehouses -Expectations & Fulfilment levels for E-business - Retail Supply Chain Administration - Vendor Managed Inventory

BLOCK V: Logistics Planning and Design Techniques

Logistics Planning and Design Techniques - Organisation structure for improving the effectiveness Goods – (Automobile components) - Reverse logistics

References:

1. Donald J. Bowersox David J. Closs, International Editions (1996) Logistical Management, McGraw-Hill, Singapore.
2. Jhon W. langford (2007) Logistics Principles and Applications, McGraw-Hill professional, U.S.A.
3. Nandi, S.K and Ganapathi, S.L (2015),Logistics Management, Oxford University Press,New Delhi.
4. Pramod Raokalyani Gohokar (2010) Logistics Management Concepts and Cases , ICFAI University Press, Hyderabad, S.India
5. Reza ZanjiraniFarahan, Shabnam Rezapour and Laleh Kurdor (2012) Logistics Operations and Management-Concepts and Models ,Elsevier, New York, USA
6. Vinod.V.Sople (2007),Logistics Management –The Supply Chain Imperative, Pearson Education, New Delhi.
7. Langford, J. W. (2007). Logistics: Principles and applications. New York: SOLE Press/McGraw-Hill.
8. Christopher, M. (2016). Logistics & supply chain management. Harlow, England: Pearson.
9. Brown, S., & Lynda.com (Firm), (2015). Fundamentals of Logistics, Carpenteria, CA lynda.com.

Course Title : Supply Chain Management

Course Code : LSM 12

Course Credit : 4

Course Objective :

- To learn about Supply Chain, Operations, Channels of Distribution fit in to various types of Business.
- To understand the management components of supply chain management
- To know the various management inventories and network design techniques useful in implementing supply chain management

Course Outcome :

- To provide the analytic model based approach for solving logistics and supply chain problems.
- To underline the importance of using total supply chain costs in all analysis,
- To provide students with techniques for measuring and managing supply chain uncertainty.
- To explain the idea of using segmentation and a portfolio of solutions, rather than a single approach, for real-world logistics problems.

BLOCK I: Introduction to Supply Chain Management

Introduction to Supply Chain Management –Concept of SCM Building –Components of Supply Chain - a strategic framework to analyze supply chains. Understanding the supply chain – Supply chain performance: Achieving strategic fit and scope –Supply chain Drivers and Obstacles-Value Chain Management.

BLOCK II: Supply Chain Management

Customer Focus in SCM -Planning demand and supply in a supply chain. Demand forecasting in a supply chain – Aggregate planning in a supply chain – Planning supply and demand in a supply chain .Managing predictable variability.

BLOCK III: Managing Inventories

Planning and managing inventories in a supply chain - Managing Economies of scale in a supply chain : Cycle inventory – Managing uncertainty in a supply chain. Safety inventory – Determining optimal level of product availability.

BLOCK IV: Network Design

Transportation, Network design and information technology in a supply chain- Facilities decisions. Network Design in a supply chain – Information Technology in a supply chain

BLOCK V: Recent Trends in Supply Chain

Coordinating a supply chain and the role of E-Business - Coordination in a supply chain E-business and the supply chain- Financial evaluation of supply chain decisions-Best Practice in Supply Chain.

References:

1. Bowersox, Closs, Cooper, (2012), Supply Chain Logistics Management, latest Edition, McGraw Hill, New Delhi
2. Burt, Dobbler, Starling, (2003), World Class Supply Management, latest Edition, TMH, New Delhi
3. Chopra, S, and P. Meindl, (2010), Supply Chain Management Strategy, Planning and Operation, latest Edition, Pearson Education New Delhi
4. D. Simchi-Levi, P. Kaminski and E. Simchi-Levi, (2012), Designing and Managing the Supply Chain: Concepts, Strategies and Case Studies, latest Edition, McGraw-Hill, New Delhi.
5. Donald J Bowersox, David J Closs, (2010), Logistical Management (The integrated Supply Chain Process), latest Edition, TMH, New Delhi
6. Janat Shah , (2010), Supply Chain Management latest Edition, Pearson Education, New Delhi
7. Joel D. Wisner, G. Keong Leong, KeahChoon Tan (2010), Principles of Supply Chain Management: A Balanced Approach, latest Edition, Cengage Learning, India
8. Raghuram, G. and N. Rangaraj, (2010), Logistics and Supply Chain Management: Cases and Concepts, latest Edition, Macmillan, New Delhi
9. Sunil Chopra, Peter Meindl, (2012), Supply Chain Management (Strategy, Planning and Operation), latest Edition, Pearson Education, India.
10. Sunil Sharma, (2010), Supply Chain Management, latest Edition, Oxford University Press, New Delhi