

DRS6-LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Learning Objectives:

The course aims to achieve following objectives

1. To impart conceptual knowledge of Logistics and Supply chain management

2. To acquaint students with the Inventory Management

3. To help students gain knowledge of relationship between E-Commerce and Logistics

And supply chain management

Max. Marks: 100

External: 70

Internal: 30

Pass: 40%

Credits: 6

SECTION A

Unit -I –Logistics: Evolution, Objectives, Components and Functions of Logistics Management, Distribution Related Issues and Challenges; gaining competitive advantage through Logistics Management, Transportation- Functions, Costs, and Mode; Network and Decision, Containerization, Cross docking.

Unit -II -Supply Chain : Concepts: Objectives of a Supply Chain, Stages of Supply chain, Value Chain Process, Cycle view of Supply Chain Process, Key issues in SCM, logistics & SCM, Supply Chain Drivers and obstacles, Supply chain strategies, strategic fit, Best practices in SCM, Obstacles of streamlined SCM.

Unit -III- Dynamics of supply chain: Supply Chain Integration, Push-based, Pull-based and Push, Pull based supply chain, Demand Forecasting in a Supply Chain, Managing inventory in SC environment: Transportation in SC environment. Strategic Alliances, Third party and fourth party logistics,



Retailer- Supplier partnerships (RSP), Supplier evaluation and selection, Use of best practices
And Information Technology (IT) in Supply Chain Management.

Unit -IV - Supply Chain Performance: Introduction, Bullwhip effect and reduction,
Performance measurement: Dimension, Tools of performance measurement, SCOR Model.
Demand chain management, Global Supply chain Challenges in establishing Global Supply
Chain, Factors that influences designing Global Supply Chain Network.

SECTION B

Unit-V: Transportation: Transportation Infrastructure; Transport Functionality, Principles &
Participants, Regulations, Transport Structure, Transport Service, Transport Operations;
Transport Economics and Pricing, Transportation Administration, Documentation.

Unit-VI –Recent trends in Logistics and Supply Chain Management Logistics Information
System: Concept of Logistics Information System (LIS), Importance of LIS, Principles of
designing LIS, Logistics Information Architecture, Application of Information Technology in
Logistics and Supply Chain Management, Requirements of Logistics in E-Commerce, E-
Logistics Structure and Operation.

Suggested Readings:

1. Ayers, J. B. (2006). Handbook of supply chain management (2nd Ed.). Florida: Auer Bach Publication.
2. Ballou, R. H., & Srivastava, S. K. (2008). Business logistics/ supply chain Management (5th Ed.). New Delhi: Pearson Education.
3. Chopra, S., & Meindl, P. (2007). Supply chain management: Strategy, planning and operation (3rd ed.). New Delhi: Pearson Education.
4. Coyle, J. J., Bardi, L. J., & Langley, C. J. (2008). The management of business Logistics (7th Ed.). USA: South-Western.
5. Dornier, P. P., Ernst, R., Fender, M., & Kouvelis, P. (1998). Global Operations Management and Logistics: Text and Cases. New York: John Wiley & Sons.



5. Service Management, Operations, Strategy, Information Technology, Fitzsimmons & Fitzsimmons, McGraw Hill.

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