



## **LOGISTICS AND SUPPLY CHAIN MANAGEMENT**

### **Preamble**

The course will provide students with knowledge, understanding and skills in logistics and supply chain management and its environment.

### **Aims of the subject**

At the end of the course will be able to;

- Define the role of logistics in a supply chain
- Describe the opportunities and challenges in logistics and transport
- Able to provide value in organisations through partnership integration

### **1.0 The role of supply chain and logistics management**

1.1 What is supply chain and logistics management

1.2 The key concepts of supply chain management

- Procurement
- Production
- Transport
- Warehousing
- Inventory management
- Material handling and packaging
- Marketing

1.3 The key concepts of logistics management

- Transport
- Warehousing
- Inventory management
- Materials handling and packaging

- Communication

### 1.3 The importance of supply chain and logistics management

## **2.0 Supply chain strategy and performance**

### 2.1 The trade off of customer levels and costs

### 2.2 Supply chain performances metrics or performance indicators

### 2.3 Linking supply chain and business performances

### 2.4 Enhancing supply chain performance

- optimisation,
- integration
- Restructuring

### 2.5 Supply chain strategies

- Lean Strategy
- Agile strategy

## **3.0 Outsourcing ; Make versus Buy**

### 3.1 Market versus hierarchy

### 3.2 The make versus buy continuum

## **4.0 Inventory Management**

### 4.1 Types of inventory

### 4.2 Inventory techniques

### 4.3 Inventory related costs

### 4.4 Managing stock levels

## **5.0 Transportation**

- 5.1 Determinants of transportation decisions
- 5.2 Modes of transport
- 5.3 The role of transport in various supply chain.
- 5.4 The relationship between transport and other elements of logistics

## **6;0 Warehousing**

- 6.1 The factors affecting warehousing decisions.
- 6.2 Types of warehousing and their purposes
- 6.3 The role of warehousing in any supply chain .

## **7.0 Material handling and Packaging**

- 7.1 The uses of material handling and packaging.
- 7.2 The link between material handling and unitisation.
- 7.3 The benefits of methods of unitisation such as containerisation and palletisation

## **8.0 Information technology in supply chain and logistics management.**

- 8.1 Information technology and transaction execution
- 8.2 Information technology, and collaboration and coordination.
- 8.3 Information technology and decision support
- 8.4 The role of information technology in supply chain strategies

## EXAMINATION GRID

NUMBER	TOPIC	WEIGHT %
1	THE ROLE OF SUPPLY CHAIN AND LOGISTICS MANAGEMNT	15
2	SUPPLY CHAIN STRATEGY AND PERFORMANCE	10
3	OUTSOURCING; MAKE AND BUY	15
4	INVENTORY MANAGEMNT	15
5	TRANSPORTATION AND WAREHOUSING	20
6	MATERIAL HANDLING AND PACKAGING	10
7	INFORMATION TECHNOLOGY IN SUPPLY CHAIN AND LOGISTICS	15

## References

- 1 Langley el at , Managing Supply Chains, Southen Western , United Kingdom.
- 2 Ronald H , Ballon Samirr, K, Srivastava, Business Logistics/ Supply Chain Managemnt, 5<sup>th</sup> edition , Person Education, New Delhi