



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, 5th edition , Person Education, New Delhi