

AC –  
Item No. –

**As Per NEP 2020**

**Tolani College of  
Commerce  
(Autonomous)**



Knowledge is Supreme

**Title of the Course: Logistics and Supply Chain Management**

**Programme: Bachelor of Management Studies Semester 4**

**Syllabus for Four credits**

**From the academic year- A.Y.2024-2025**

## Name of the Course : Logistics and Supply Chain Management

Sr. No.	Heading	Particulars
1	<b>Description of the course :</b>	This course is designed to provide students with a comprehensive understanding of logistics and supply chain management principles and practices. It covers the end-to-end processes involved in the movement of goods and services from the point of origin to the point of consumption. Emphasizing the critical role of effective logistics and supply chain management in achieving organizational success, the course explores various strategies, technologies, and best practices in the field
2	<b>Vertical :</b>	Major
3	<b>Semester :</b>	IV
4	<b>Type :</b>	Theory
5	<b>Credit:</b>	4 credits
6	<b>Hours Allotted :</b>	60 Hours
7	<b>Marks Allotted:</b>	100 Marks Continuous Evaluation 40 Marks Semester End Examination 60 Marks
8	<b>Course Objectives:</b>	<ol style="list-style-type: none"> <li>1. To provide students with basic understanding of concepts of logistics and supply chain management</li> <li>2. To introduce students to the key activities performed by the logistics function</li> <li>3. To provide an insight in to the nature of supply chain, its functions and supply chain systems</li> <li>4. This course aims to explore and understand the latest trends shaping logistics and supply chain management.</li> </ol>

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**Course Outcomes:**

1. Learners will gain a fundamental understanding of the key concepts and principles of logistics and supply chain management.
2. Upon completion of the course, learners will get a comprehensive understanding of the core activities performed within the logistics function
3. The learners will get a comprehensive understanding of the nature of supply chains, including their structure, dynamics, and interdependencies.
4. Upon completion of the course the learners will gain a comprehensive understanding of the latest trends and advancements in logistics and supply chain management. The learners will be introduced to technologies, such as blockchain, Internet of Things (IoT), and artificial intelligence (AI), and their impact on supply chain operations.

**10 Modules:-****Module 1: Overview of Logistics and Supply Chain Management**

- 1. Introduction to Logistics Management :** Meaning, Basic Concepts of Logistics- Logistical Performance, Cycle, Inbound Logistics, In process Logistics, Outbound ,Logistics, Logistical Competency, Integrated Logistics , Reverse Logistics and Green Logistics.
- 2. Introduction to Supply Chain Management :** Meaning, Objectives, Functions, Participants of Supply Chain, Role of Logistics in Supply Chain, Comparison between Logistics and Supply Chain Management, Channel Management and Channel Integration.
- 3. Customer Service :** Key Element of Logistics ,Meaning of Customer Service, Objectives, Elements, Levels of customer service, Rights of Customers.
- 4. Demand Forecasting :** Meaning, Objectives ,Approaches to Forecasting, Forecasting Methods, Forecasting Techniques, (Numerical on Simple Moving Average, Weighted Moving Average).

**Module 2: Elements of Logistics Mix**

- 1. Transportation :** Introduction, Principles and Participants in Transportation, Transport Functionality, Factors Influencing Transportation, Decisions, Modes of Transportation- Railways, Roadways, Airways, Waterways, Ropeways, Pipeline, Transportation Infrastructure, Intermodal Transportation.
- 2. Warehousing :** Introduction, Warehouse Functionality, Benefits of Warehousing, Warehouse Operating Principles, Types of Warehouses, Warehousing Strategies, Factors affecting Warehousing.
- 3. Materials Handling :** Meaning, Objectives, Principles of Materials Handling, Systems of Materials Handling, Equipments used for Materials Handling, Factors affecting Materials Handling Equipments.
- 4. Packaging :** Introduction, Objectives of Packaging, Functions/Benefits of Packaging, Design Considerations in Packaging, Types of Packaging Material, Packaging Costs.

### **Module 3: Inventory Management, Logistics Costing, Performance Management and Logistical Network Analysis**

- 1. Inventory Management :** Meaning, Objectives, Functions, Importance Techniques of Inventory Management ( Numericals - EOQ and Reorder levels )
- 2. Logistics Costing :** Meaning, Total Cost Approach, Activity Based Costing, Mission Based Costing
- 3. Performance Measurement in Supply Chain :** Meaning, Objectives of Performance Measurement, Types of Performance Measurement, Dimensions of Performance Measurement, Characteristics of Ideal Measurement System.
- 4. Logistical Network Analysis :** Meaning, Objectives, Importance, Scope, RORO/LASH

### **Module 4: Recent Trends in Logistics and Supply Chain Management**

- 1. Information Technology in Logistics :** Introduction, Objectives, Role of Information Technology in Logistics and Supply Chain Management, Logistical Information System, Principles of Logistical Information System, Types of Logistical Information System, Logistical Information Functionality, Information Technology Infrastructure
- 2. Modern Logistics Infrastructure :** Golden Quadrilateral, Logistics Parks, Deep Water Ports, Dedicated Freight Corridor, Inland Container Depots/Container Freight Stations, Maritime Logistics, Double Stack Containers/Unit Trains
- 3. Logistics Outsourcing :** Meaning, Objectives, Benefits/Advantages of Outsourcing, Third Party Logistics Provider, Fourth Party Logistics Provider, Drawbacks of Outsourcing, Selection of Logistics Service Provider, Outsourcing-Value Proposition
- 4. Logistics in the Global Environment :** Managing the Global Supply Chain, Impact of Globalization on Logistics and Supply Chain Management, Global Logistics Trends, Global Issues and Challenges in Logistics and Supply Chain Management

**11 Reference Books:**

1. Chopra, Sunil, and Peter Meindl. Supply Chain Management: Strategy, Planning, and Operation. 2018.
2. Christopher, Martin. Logistics and Supply Chain Management: Creating Value-Adding Networks. 2011.
3. Harrison, Alan, and Remko Van Hoek. Logistics Management and Strategy: Competing Through the Supply Chain. 2018.
4. Jacobs, F. Robert, and Richard B. Chase. Operations and Supply Chain Management: The Core. 2019.
5. Mangan, John, Chandra Lalwani, and Tim Butcher. Global Logistics and Supply Chain Management. 2016.
6. Slack, Nigel, Alistair Brandon-Jones, and Robert Johnston. Operations Management. 2019.

**12 Internal Continuous Assessment: 40%** **Semester End Examination : 60%**

**13 Continuous Evaluation through:**

Component	Total Marks
1)Assignment/Case Studies	15 Marks
2)Presentation/ /Project	15 Marks
3)Objective Questions	10 Marks
<b>Total</b>	<b>40 Marks</b>

*Note: Learner must be Present in all the three exam components of Continuous Evaluation.*

**14 Format of Question Paper: for the final examination**

**Question Paper Pattern for Semester End Examination (SEE)**  
**Maximum Marks: 60** **Duration:2 Hour**

Q. No.	Particular	Marks
<b>Q-1</b>	<b>Attempt any TWO the following:</b> (Module 1) A. Full Length Question B. Full Length Question C. Full Length Question	<b>15 Marks</b>
<b>Q-2</b>	<b>Attempt any TWO the following:</b> (Module 2) A. Full Length Question B. Full Length Question C. Full Length Question	<b>15 Marks</b>
<b>Q-3</b>	<b>Attempt any TWO the following:</b> (Module 3) A. Full Length Question B. Full Length Question C. Full Length Question	<b>15 Marks</b>
<b>Q-4</b>	<b>Attempt any TWO the following:</b> (Module 4) A.Full Length Question B. Full Length Question C. Full Length Question	<b>15 Marks</b>

*Note: Any of the full length question of 7.5 Marks can be a case study.*

**Signatures of Team  
Members**

<b>Sr.No</b>	<b>Name</b>	<b>Signature</b>
1.	Ms. Shalini Clayton	
2.	Ms. Reshma Rajput	
3.	Mr. Vedant Kajbaje	
4.		
5.		