	L21C03	Fundamental of Logistics	L	T	P	J	S	C	
			3					3	
	Course owner	Department of Operations	Syllabus version				1.0		
	Course Pre-requisite(s)	NIL	Contact hours				40		
	Course Co-requisite(s)	NIL	Date Approved						
	Alternate Exposure								

Fundamental of Logistics is primarily concerned with the efficient integration of transporters, suppliers, factories, warehouses and stores so that merchandise is produced and distributed in the right quantities, to the right locations and at the right time, and so as to optimize cost subject to satisfying service quality requirements.

Therefore, this course is designed to:

- Understand the process model of logistics that describes movement of goods and services to the customers' end.
- Know the role of logistic managers, in particular the importance of focusing on whole supply chain who are outside this boundary, as well as on other aspects of the logistics management.

Course Objectives

1. Understand the fundamental of logistics management using manufacturing and service examples.
2. Identify the roles and responsibilities of logistics managers in different organizational contexts.
3. Apply the inventory and warehousing management concepts for decision-making
4. Analyze the various services to identify areas for improvement
5. Evaluate strategies for improvement in transportation and movement contexts

UNIT - I Introduction to Logistics

No of Hours: 8

History of Logistics Need for logistics - Cost and Productivity, cost saving & Productivity Improvement. Logistics Cost, reduction in logistics cost, benefits of efficient Logistics, Principles of Logistics, Technology & Logistics - Informatics, Logistics optimization. Listing of Sub – sectors of Logistics.

Learning Outcomes:

After completion of this unit, the student will be able to

- Illustrate the evolution of logistics L1
- Explain the role of logistics in an organization L2
- Appreciate the dimensions that make up the logistics management L2
- Analyze the need and importance of logistics in supply chain L4
- Evaluate the crucial role of logistics management in organizational success L5

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - II Logistics and Customer Service


No of Hours: 8

Definition of Customer Service Elements of Customer Service - Phases in Customer Service - Customer Retention - Procurement and Outsourcing - Definition of Procurement / Outsourcing - Benefits of Logistics Out sourcing - Critical Issues in Logistics.

Learning Outcomes:

After completion of this unit, the student will be able to

- Understand the concept of customer service elements L2
- Explain the phases of customer service L2
- Evaluate the advantages of customer retention L5
- Analyze the factors that influence the choice and benefits of logistical services outsourcing L4

	L21C03	Fundamental of Logistics	L	T	P	J	S	C	
			3					3	
	Course owner	Department of Operations	Syllabus version				1.0		
	Course Pre-requisite(s)	NIL	Contact hours				40		
	Course Co-requisite(s)	NIL	Date Approved						
	Alternate Exposure								

- Analyze the critical issues in logistics L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - III Global Logistics

No of Hours: 8

Global Supply Chain - Organizing for Global Logistics - Strategic Issues in Global Logistics - Forces driving Globalization - Modes of Transportation in Global Logistics Barriers to Global Logistics - Markets and Competition - Financial Issues in Logistics Performance - Integrated Logistics - Need for Integration - Activity Centres in Integrated Logistics. Role of 3PL & 4PL.

Learning Outcomes:

After completion of this unit, the student will be able to

- Analyze the markets and competition L4
- Understand the concept and organization of logistics globally L2
- Evaluate financial issues in logistics performance L5
- Understand the role of 3PL & 4PL L2
- Analyze the importance of integration of activity centres L3

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - IV Warehouse

No of Hours: 8

Warehouse - Meaning, Types of Warehouses Benefits of Warehousing. Transportation - Meaning; Types of Transportations, efficient transportation system and benefits of efficient transportation systems; Courier/Express - Courier/Express - Meaning, Categorization of Shipments, Courier Guidelines, Pricing in Courier - Express Sector for international and domestic shipping E-Commerce - Meaning, Brief on Fulfilment Centres, Reverse logistics in e-commerce sector, marketing in e-commerce and future trends in e-commerce

Learning Outcomes:

After completion of this unit, the student will be able to

- Understand concept and need of warehouse L2
- Apply various strategies of warehousing L3
- Explain the benefits and importance of efficient transportation system L2
- Understand marketing and reverse logistics process in e-commerce sector L2
- Analyze future trends in e-commerce L4

Pedagogy tools: Blended learning, case study, video lectures, self-reading

UNIT - V EXIM


No of Hours: 8

Brief on EXIM / FF & CC, Multi - modal transportation, brief on customs clearance, bulk load handling and brief on transshipment; Supply chain, Cold chain, Liquid Logistics, Rail Logistics.

Learning Outcomes:

After completion of this unit, the student will be able to

- Understand the custom clearance process in international business L2
- Apply bulk breaking concept. L3
- Explain the process of custom clearance L2
- Evaluate the various supply chains like cold chain, liquid logistics, etc. L5
- Analyze transshipment method. L4

	L21C03	Fundamental of Logistics	L	T	P	J	S	C	
			3					3	
	Course owner	Department of Operations	Syllabus version				1.0		
	Course Pre-requisite(s)	NIL	Contact hours				40		
	Course Co-requisite(s)	NIL	Date Approved						
	Alternate Exposure								

Pedagogy tools: Blended learning, case study, video lectures, self-reading

Textbook(s):

1. Fundamentals of Logistics Management (The Irwin / McGraw - Hill Series in Marketing), Douglas Lambert, James R Stock, Lisa M. Ellram, McGraw-hill/Irwin, First Edition, 1998.

Additional Reading

Reference Book(s):

1. Fundamentals of Logistics Management, David Grant, Douglas M. Lambert, James R. Stock, Lisa M. Ellram, McGraw Hill Higher Education, 1997.
2. Vinod V. Sople (2009) Logistic Management (2nd Edn.) Pearson Limited.
3. Logistics Management for International Business: Text and Cases, Sudalaimuthu & Anthony Raj, PHI Learning, First Edition, 2009.

Journal(s):

1. International Journal of Logistics Management, Emerald publisher.
2. FIIB Business Review, Sage Publisher.

Website(s)

1. www.poms.org

	Programme Objectives (POs)												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	3	0	0	0	0	0	0	0							
CO2	3	2	1	0	2	2	0	0							
CO3	0	3	0	3	0	0	0	0							
CO4	3	0	0	2	3	0	0	0							
CO5	0	0	3	0	3	0	0	0							

1-Low, 2-Medium and 3- High Correlation