

<b>LSCM 2006</b>	Multimodal Transportation	L	T	P	C
<b>Version 1.0</b>		3	0	0	3
<b>Pre-requisites/Exposure</b>	12 <sup>th</sup> level				
<b>Co-requisites</b>	Understanding of logistics Function				

### **Course Objectives**

The objectives of this course are:

1. To make the students understand the importance of transportation in domestic and international business.
2. To make the student understand the role of logistics infrastructure in transportation and the present logistics infrastructure status in the railways, roadways, waterways and port development in India.
3. To make the students able to take transportation decisions with the judicious use of modal mix to reduce the transportation cost.
4. To make the students understand the role of all the parties involved in managing international trade including business partners such as CHA, NVOCC, MTO, and other 3PL and 4PL companies.
5. To make the students aware of legal frameworks governing multimodal transportation and different regulations, convention and practices.

### **Course Outcomes**

On completion of this course, the students will be able to

- CO1. Understand the basic concepts of Multimodal Transportation and role of transportation in International business.
- CO2. To understand the role of containerisation and its contribution in Multimodal transportation.
- CO3. To understand and apply their knowledge and understanding of the status of Indian infrastructure for different transport modes, comparison with International situation and commercial and ecological implications.
- CO4. To understand the role of all the parties involved in managing international trade including business partners such as CHAs, NVOCC, MTO, and other 3PL and 4PL companies.
- CO5. To understand the legal framework governing Multimodal transport in India and International conventions and practices.

### **Catalog Description**

Multimodal transport plays a key role in transporting goods in International supply chain. This course covers the interrelationship between all modes of transport used in International trade. However, students should note that because 90% of all international cargo transport includes a sea movement leg the main thrust of this syllabus is on intermodal transport and

logistics involving maritime transport on at least one leg. It is assumed that the students are familiar with the fundamentals of supply chain management, associated logistics and inventory control..

## **Course Content**

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### **Unit I: 3 Hours**

#### **Introduction to Multimodal Transport.**

Introduction to multimodal transportation- Definitions, MTO, MTD, MTC, concepts, benefits, current scenario, challenges faced and reforms.

### **Unit II: 3 Hours**

#### **OVERVIEW OF MULTIMODAL TRANSPORTATION**

Definition of multimodal transportation, Multimodal transport in India.

### **Unit III: 6 Hours**

#### **CONTAINERIZATION**

Evolution of containerization, Contribution of Malcolm Mclean in containerization, Types of containers, Benefits of containerization, Growth prospects of trade with containerization.

### **Unit IV: 8 Hours**

#### **OVERVIEW OF RAIL-ROAD, RAIL-ROAD-SEA, ROAD-AIR**

Road Transport in India, Rail Transport in India, Container corporation of India(CONCOR), Freight Corridors(DFCC), Commercial terms of rail-road transport in India, Sea Transport in India, Coastal /Inland shipping, Introduction to Air Transport, Combination of different modes of transport, Incoterms. Role of seaports, airports, ICDs/CFS, terminals, in multimodal transportation.

### **Unit V: 8 Hours**

#### **OVERVIEW OF INTERMODAL TRANSPORTATION**

Types of Ships, Definition of Intermodal Transport, Various aspects of Intermodal transport in India, Custom clearance process, Role of CHAs, Role of NVOCCS, Trade Financing

Options, Letter of Credits, Role of intermediaries like Freight forwarders, ship brokers, ship agents, Port authorities.

**Unit VI: 8 Hours**

**NATIONAL LAW ON TRANSPORT, MULTIMODAL TRANSPORTATION GOODS (AMENDMENT) ACT, 2000**

Multimodal transportation of Goods Act, 1993- its objectives and benefits, Multimodal transportation of Goods Act, 2000, International Conventions on Intermodal transport, Dangerous good classification, Regulations concerning dangerous goods regulations, Motor Vehicles Act, Warsaw Convention

**Text Book**

1. Container and Multimodal Transport Management – Hariharan K.V. – Shroffs Publishers & Distributors

**Reference Books**

1. International Trade Logistics-Ram Singh- Oxford Publication

**Modes of Evaluation: Quiz/Assignment/ presentation/ extempore/ Written Examination Examination Scheme:**

<b>Components</b>	<b>MSE</b>	<b>IA</b>	<b>ESE</b>
<b>Weightage (%)</b>	<b>20</b>	<b>30</b>	<b>50</b>
		<ul style="list-style-type: none"> <li>• Case Presentation (30 Marks)</li> <li>• Online Assignments (40 Marks)</li> <li>• Quiz (30 Marks)</li> </ul>	

**Relationship between the Course Outcomes (COs) and Program Outcomes (POs)**

<b>Mapping between COs and POs</b>		
	<b>Course Outcomes (COs)</b>	<b>Mapped Programme Outcomes</b>
<b>CO1</b>	Understand the basic concepts of Multimodal Transportation and role of transportation in International business.	<b>PO 1, 2, 4, 8,9,12</b>

<b>CO2</b>	To understand the role of containerisation and its contribution in Multimodal transportation.	<b>PO 2,3,4,8,7,8</b>
<b>CO3</b>	To understand and apply their knowledge and understanding of the status of Indian infrastructure for different transport modes, comparison with International situation and commercial and ecological implications.	<b>PO 3,4,6,8, 9, 12</b>
<b>CO4</b>	To understand the role of all the parties involved in managing international trade including business partners such as CHAs, NVOCC, MTO, and other 3PL and 4PL companies.	<b>PO 4,5,6,7,9,10,11</b>
<b>CO 5</b>	To understand the legal framework governing Multimodal transport in India and International conventions and practices.	<b>PO 1,2,4,5,6,8</b>


### **Program Outcome / Course Outcome mapping**

<b>Course Outcomes</b>	<b>CO 1</b>	<b>CO 2</b>	<b>CO 3</b>	<b>CO 4</b>	<b>CO 5</b>
<b>PO 1</b>	3	3	3	2	2
<b>PO 2</b>	3	3	3	2	2
<b>PO 3</b>	3	3	3	2	2
<b>PO 4</b>	3	1	1	3	1
<b>PO 5</b>	2	2	1	3	1
<b>PO 6</b>	2	2	2	2	1
<b>PO 7</b>	3	3	1	2	2
<b>PO 8</b>	3	3	3	3	2
<b>PSO 9</b>	3	3	3	1	2
<b>PSO 10</b>	3	3	3	2	1
<b>PSO 11</b>	3	3	3	2	1
<b>PSO 12</b>	1	1	1	3	1

		Students will demonstrate strong conceptual knowledge of management & its functional areas.												
		Students will demonstrate effective oral and written communication skills in the professional context.												
		Students will be able to work effectively in teams and demonstrate team-building capabilities.												
		Students will be able to evaluate the legal, social and economic environments of business.												
		Students will be able to describe the global environment of business.												
		Students will demonstrate sensitivity towards ethical and moral issues and have ability to address them in the course of business.												
		Students will be able to apply decision-support tools to business decision making.												
		Students will be able to apply knowledge of business concepts and functions in an integrated manner.												
		Students will demonstrate conceptual domain knowledge of the logistics sector.												
		Students will apply decision-support tools to decision making in logistics sector.												
		Students will apply conceptual knowledge of logistics sector in an integrated manner.												
		Students will demonstrate employable and deployable skills for appropriate roles in management.												
LSC M 20 06	Multimodal Transportati on	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	P O 7	PO 8	PSO 9	PSO 10	PSO 11	PSO1 2	
		3	3	3	2	2	2	2	3	2	3	3	2	

- 1 – Weakly mapped**
- 2 – Moderately mapped**
- 3 – Strongly mapped  
ly mapped**

## Model Question Paper

<b>Name:</b>  <b>Enrolment No:</b>			
<b>Course: LSCM 2006 Introduction to Multimodal Transport</b>			
<b>Programme: BBA (Logistics Management)</b>		<b>Semester: IV</b>	
<b>Time: 03 hrs.</b>		<b>Max. Marks: 100</b>	
<b>Instructions:</b> <b>Note: All sections are compulsory &amp; this question paper carries 4 sections.</b>			
<b>Section A (20)</b> <b>Attempt all questions in this section</b>			
1.	Q- 1.a. Write the Full form of-  i) DGS ii) MTC iii) CFS iv) JIT v) IATA vi) RMG vii) PPP viii)NVOCC ix) LCL x) POL	(1*10=10 marks)	CO 1,2, 3,4,5
	1). The most significant adaptation of a vessel for container use was made in 1956 by _____, creator of Sea Land Corporation.  2). _____ is the combining of small components (or units) of a load into a single larger unit.  3). _____ is the competitive authority for multimodal transport operator.  4). The Western Dedicated Freight Corridor covers a distance of 1504 km of double line electric (2 X 25 KV) track from _____ to Dadri.	(2*5=10 marks)	CO 1,2, 3,4,5

	5). Broad Gauge which is also called Indian gauge has a width of _____ m.		
	<b>SECTION B (20 Marks)</b> <b>Attempt any 4 question, each question carries 5 marks only</b>		
2.	Q-2. Write short notes on the following (any four) a) Multimodal Transport Document and its importance. b) Containerization and its advantages c) Coastal Shipping and its importance. d) Multimodal Transport Operator. e) CONCOR and its core businesses.	<b>(5*4= 20 marks)</b>	CO 2, 3,4
	<b>SECTION C(30 marks)</b> <b>(Attempt any 3 question, each question carries 10 marks only)</b>		
3.	Q-3. Write a short note on NVOCCs. What is their importance in international transportation? Q-4. What is Cabotage Law? What are its advantages and disadvantages? Q-5. What are the key Objectives of Dedicated Freight Corridor? Q-6. What do you understand by Bill of Lading and what is difference between House Bill of Lading and Master Bill of lading?	[10 x 3=30Marks]	CO 1, 2, 3, 4
	<b>SECTION D (30 marks)</b> <b>Attempt any one question out of the two &amp; provide the solution</b>		
4.	Q- 7. What do you understand by ‘Inland Container Depot ’? What is the importance of an ICD in multimodal transportation and what different facilities are offered at ICDs? Q- 8. What is multimodal transportation and how is it different from segment transportation? What benefits multimodal transport offers in comparison to segment transportation? .	[15*2=30 Marks]	CO- 2,3