

LSCM 3008	Freight Forwarding & Port Operations	L	T	P	C
Version 1.0		3	0	0	3
Pre-requisites/Exposure	12 th level				
Co-requisites	Understanding of Operations & Logistics				

Course Objectives

1. Developing an understanding of the process and framework of Freight Forwarding & Port Operations and their concepts.
2. To know and understand the importance of all activities of Freight Forwarder & Port Operations.
3. To develop skills for planning the operational facilities of Port Operations with the analytical and critical understanding.
4. To understand the role of information system in business.

Course Outcomes

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

- CO1.** Knowhow of Freight Forwarding and Port Operation functions and activities.
- CO2.** Understand warehousing operations, modes of transport, packaging, import & export documentation etc.
- CO3.** Comprehend the structure and components of a port and their underlying need for existence in the country.
- CO4.** Students to be able to become adept in improving operational discipline among organizations in the domains of port & shipping industry
- CO5.** Impact of technology on operations & business.

Catalog Description

Freight forwarding & Port Operations has gained importance in the management field as it relates to a multi-billion dollar International Trade scenario. India is fast enhancing its capability in terms of Infrastructure, Policies & Processes. Port capacities are likely to reach about 3 billion tons by 2020. Managing Trade operations is a great challenge to Ports & related organizations. The teaching methodology includes power point lectures, case studies, articles, group discussions, role-plays and presentations. Students are expected to study the topic/assigned chapters before they come to class. Interaction during lectures is encouraged and therefore each student is expected to add valuable inputs during lectures by sharing his/her knowledge, opinions gained through prescribed readings and articles. Students should be able to demonstrate their comprehension of purchasing & supply chain management concepts and knowledge by applying those in their written exams, case studies discussions, presentations and projects. The students would be given assignment/project, which would enable them to apply the SRM concepts practically and illustrate those through a written report and presentation. The course methodology thus encourages students to explore for themselves the role of purchasing manager in an organization.

Course Content

Unit I: **10 Hours**

Cargoes & Cargo Equipment

Liner Cargo (general cargo) – Dangerous goods IMO special goods, cargo handlings other methods of lifting cargo port handling equipment, port terminals, cargo storage, storage factors port management and organization, terminal management, The role of ships officers, The ships agent.

Unit II: **9 Hours**

Containerization Unitization and Intermodalism

Growth in world trade unitization, Intermodalism world container other growth container dimensions, types of container other container expressions container inventory, owning, leasing, meeting the demand for containers tracking the container fleet, container control, FCLS, LCLS & ICDS, legal & Insurance implications in the container trade.

Unit III: **8 Hours**

Air Freight Forwarding

Air freight Exports & Imports – Special cargos – Consolidation – Documentation – Airway bill – Communication - Handling COD shipments – POD - Conditions of contract - Dangerous (DGR) of Hazardous goods.

Unit IV: **9 Hours**

Major sea routes from India

Calculation of detection charges & demurrage charges, Transit Bond & Transshipment, Freight calculation in Air shipments (Volumetric weight) & Sea shipments (CBM calculation), Consolidation of Cargo, Application of Terminal Handling Charges & Inland Haulage charges, Major ports of India, Cargo Handling at ports.

Text Book

1. Logistics Management, S.K. Ganpathi, Oxford
2. Port Management – a 360 degree view, Mihir Das, JBS Academy / Ahmedabad +Amazon

Reference Books

1. International Logistics by Supply Chain Imperative, Pierre David, Biztantra
2. Logistics Management, S.K. Bhattacharyya, S. Chand
3. A text book on container and multimodal transport management, K.V. Hariharan, Paperback

4. International Logistics, Donald F. wood, Amacom
5. Port management and operations: Lloyd's practical shipping guides, Patrick Alderton, London Informa 2008

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

Components	MSE	IA	ESE
Weightage (%)	20	30	50
		<ul style="list-style-type: none"> • Case Presentation (30 Marks) • Class participation (50 Marks) • Quiz (20 Marks) 	

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

Mapping between COs and POs		
	Course Outcomes (COs)	Mapped Programme Outcomes
CO1	Knowhow of Freight Forwarding and Port Operation functions and activities.	PO 1, 2, 4, 8,9,12
CO2	Understand warehousing operations, modes of transport, packaging, import & export documentation etc.	PO 2,3,4,8,7,8
CO3	Comprehend the structure and components of a port and their underlying need for existence in the country	PO 3,4,6,8, 9, 12
CO4	Students to be able to become adept in improving operational discipline among organizations in the domains of port & shipping industry	PO 4,5,6,7,9,10,11
CO 5	Impact of technology on operations & business.	PO 1,2,3,7,8,9,10

Program Outcome / Course Outcome mapping

Course Outcomes	CO 1	CO 2	CO 3	CO 4	CO 5
PO 1	3	3	3	2	1

PO 2	3	3	3	2	1
PO 3	3	3	3	2	1
PO 4	3	1	1	3	2
PO 5	2	2	1	3	2
PO 6	2	2	2	2	2
PO 7	3	3	1	2	2
PO 8	3	3	3	3	2
PSO 9	3	3	3	1	2
PSO 10	3	3	3	2	2
PSO 11	3	3	3	2	2
PSO 12	1	1	1	3	2

		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 300 8	Freight Forwarding & Port Operations	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PSO 9	PSO 10	PSO 11	PSO12
		3	3	3	2	2	2	2	3	2	3	3	2

1 – Weakly mapped

2 – Moderately mapped

3 – Strongly mapped

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2017

Program: BBA (LM)

Subject (Course): FREIGHT FORWARDING & PORT OPERATIONS

Course Code: LSCM 3008

No. of page/s: 2

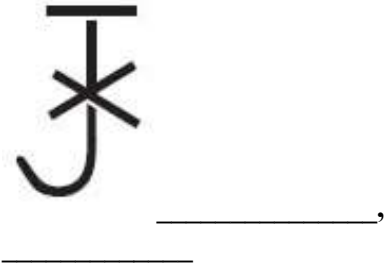
Semester – III

Max. Marks : 100

Duration : 3 Hrs

SECTION – A (20 Marks)

- 1.1 The word derives from the ancient Greek ‘poros’ which means both ‘_____’ and ‘_____’
(1x2)
which in turn became the Latin word ‘portus’, and the modern international ‘port’.
- 1.2 Tugboats are often used to maneuver _____ as they approach and leave the docks.
(1x1)
- 1.3 Marine bollards are a simple and _____ way to fulfil mooring requirements and safely
(1x1)
secure vessels alongside jetties, berths, and dolphins in ports and harbors.
- 1.4 Ship loading _____ than unloading.
(1x1)
- 1.5 The average turnaround time improved to _____ days in FY17 for the major seaports in India.
(1x1)
- 1.6 Explain the following:
(1x5)
- a. Sea PORT
 - b. Dry Docks
 - c. Cargo Ports
 - d. Fishing Port
 - e. MIS
- 1.7 Full Form of the following:
(1x4)
- a. RTGC
 - b. EDI
 - c. NVOCC
 - d. TEU
- 1.8 What this packaging symbol indicates
(1x3)



1.9 Name all the government agencies involved in monitoring security of Indian seaports.
(1x2)

SECTION – B (20 Marks)

Attempt 04 questions out of 05.

(4x5)

- 2.1 What are the basic functions of a seaport?
- 2.2 Difference between Freight Forwarder & NVOCC
- 2.3 List the services provided by Coast Guard to nation & marine community.
- 2.4 Provide Cost structure of different modes of transportation.
- 2.5 Explain factors which impact while berthing of a ship at seaport.

SECTION – C (30 Marks)

Attempt 03 questions out of 04.

(3x10)

- 3.1 Explain principal stages of ships stay at port in details.
- 3.2 Explain the different type of Cargoes handled at seaport. Equipment used to carry out loading & unloading operations.
- 3.3 Explain the major pointed issues pointed out by Major Port Reforms Committee under Mr. SS Sathe.
- 3.4 What are the various technology solution provided by Information Technology to sea ports?

SECTION – D (30 Marks)

All questions are mandatory

(1x30)

- 4.1 A supplier M/s Sushil Traders situated in Ghaziabad, Uttar Pradesh received an order from a buyer in Karachi, Pakistan to supply 1000 sets of Globe valves & pressure fittings.

Each pair of Globe valve with pressure fitting cost INR 9,800/- per set.

Weight of each set is 10 kg.

Door Delivery to Karachi.

Delivery period is of 10 days from dispatch of shipment.

Dispatch location is Ghaziabad.

Answer the following after considering cost (minimum), safety & time.

- a. How Globe valves will be packed & transported to Karachi?
- b. Use concept of unitization.
- c. Type of equipment & vehicle required for transportation.
- d. Provide the reason for selecting the Mode of transport & how it is effective than any other mode.
- e. Explain the role of Freight forwarder & documents required for shipping the material.
- f. Is transit insurance required? Provide the value of the consignment which will be insured?