

**Department of Business Administration - BBA Maritime Logistics (UG)**  
**Programme Specific Outcomes (PSOs)**

On the successful completion of the Undergraduate programme, the students will be able to

<b>PSO1</b> <b>Disciplinary Knowledge</b>	posses comprehensive knowledge and proficiency in the area of Maritime Logistics.
<b>PSO2</b> <b>Communication Skills</b>	establish business ideas, adept written communication in logistics documentation.
<b>PSO3</b> <b>Problem Solving</b>	enhance problem-solving skills in diverse business scenarios, devising innovative solutions to logistics-based issues.
<b>PSO4</b> <b>Analytical Reasoning</b>	display skills such as logical reasoning, problem-deconstruction, critical evaluation and prescriptive decision making.
<b>PSO5</b> <b>Research Skills</b>	empirically evaluate various logistics operations ranging from port documentation to management of various port infrastructures and functions.
<b>PSO6</b> <b>Digital Literacy</b>	operate with the aid of digital tools for various business functions; computing and processing digital information for analysis and interpretation.
<b>PSO7</b> <b>Leadership and Teamwork</b>	develop leadership abilities combined with teamwork skills, achievable through collaborative methodologies, mutual inspiration and achievable goal-setting.
<b>PSO8</b> <b>Moral and Ethical Awareness/Reasoning</b>	demonstrate a good moral standing and an ethically upright attitude in one's perspective towards business practices in the diverse field of Logistics.
<b>PSO9</b> <b>Multicultural Competence</b>	comprehend the multicultural nature of Indian and Global Logistics diaspora, exuding qualities such as recognition, respect, understanding and collaboration.
<b>PSO10</b> <b>Self-directed &amp; Lifelong Learning</b>	upgrade oneself progressively in the direction of evolving business environments through self-directed lifelong learning and professional development.

**Department of Business Administration - BBA Maritime Logistics (UG)**  
**Learning Outcomes-based Curriculum Framework (LOCF)**  
**(w.e.f 2024-2025)**

Sem	Part	Course Code	Course Title	Hours/Wk.	Credits	Marks
1	I	24XXXNNNN	Tamil / Hindi / French	3	2	30
1	II	24XXXNNNN	English	3	2	30
1	III CC	24BML1401	Fundamentals of Logistics	4	4	60
1	III CC	24BML1501	Introduction to Maritime Logistics	5	5	75
1	III CC	24BML1403	Accounting for Managers	4	4	60
1	III S	24BML1405	Managerial Communication	5	4	60
1	IV NME	24XXXNNNN	<i>Non-Major Elective – I</i>	3	2	30
1	IV AEC	HVS/ CHR1200	Human Values Development/ Christian Studies	3	2	30
1	V	24XXXNNNN	NSS/NCC/PED/SLP/GMP/ GNS/LIB/ACH	-	-	-
<b>Total</b>				<b>30</b>	<b>25</b>	<b>375</b>
2	I	24XXXNNNN	Tamil / Hindi / French	3	2	30
2	II	24XXXNNNN	English	3	2	30
2	III CC	24BML1502	Warehouse Management	5	5	75
2	III CC	24BML1402	Port Terminal Management	4	4	60
2	III CC	24BML1404	ICD and CFS Operations	4	4	60
2	III S	24MASXXX	<i>Offered by Mathematics</i>	5	4	60
2	IV NME	24XXXNNNN	<i>Non-Major Elective – II</i>	3	2	30
2	IV AEC	24BML1200	Environmental Studies	3	2	30
2	V	24XXXNNNN	NSS/NCC/PED/SLP/GMP/ GNS/LIB/ACH	-	1	15
<b>Total</b>				<b>30</b>	<b>25+1</b>	<b>375+1</b>
3	I	24XXXNNNN	Tamil / Hindi / French	3	2	30
3	II	24XXXNNNN	English	3	2	30
3	III CC	24BML2501	EXIM Policies & Procedure	5	5	75
3	III CC	24BML2401	Costal & Inland Water Transportation	4	4	60
3	III CC	24BML2403	Freight Forwarding	4	4	60
3	III CC	24BML2301	Marketing Management	3	3	45
3	III S	24BML2405	Total Quality Management	5	4	60
3	IV SEC	24BML2201	<i>Skill Enhancement Course - I</i>	3	2	30
3	V	24XXXNNNN	NSS/NCC/PED/SLP/GMP/ GNS/LIB/ACH	-	-	-
<b>Total</b>				<b>30</b>	<b>26</b>	<b>390</b>
4	I	24XXXNNNN	Tamil / Hindi / French	3	2	30
4	II	24XXXNNNN	English	3	2	30
4	III CC	24BML2502	Port – Inland Connectivity	5	5	75
4	III CC	24BML2504	Advance Maritime Logistics	5	5	75
4	III CC	24BML2302	Marine Insurance	3	3	45
4	III CC	24BML2304	Human Resource Management	3	3	45
4	III S	24BML2402	Operations Management	5	4	60
4	IV SEC	24BML2202	<i>Skill Enhancement Course - II</i>	3	2	30
4	V	24XXXNNNN	NSS/NCC/PED/SLP/GMP/ GNS/LIB/ACH	.-	1	15

Sem	Part	Course Code	Course Title	Hours/Wk.	Credits	Marks
			GNS/LIB/ACH			
<b>Total</b>				<b>30</b>	<b>26+1</b>	<b>390+15</b>
5	III CC	24BML3250	Apprenticeship- I*	26	25	375
5	III DSE	24BMLXXX	<i>Discipline Specific Elective</i>	2	2	30
5	III DSE	24BMLXXX	<i>Discipline Specific Elective</i>	2	2	30
	<b>Total</b>			<b>30</b>	<b>29</b>	<b>435</b>
6	III CC	24BML3230	Apprenticeship- II*	26	23	345
6	III DSE	24BMLXXX	<i>Discipline Specific Elective</i>	2	2	30
6	III DSE	24BMLXXX	<i>Discipline Specific Elective</i>	2	2	30
	<b>Total</b>			<b>30</b>	<b>27</b>	<b>405</b>
<b>Grand Total</b>				<b>180</b>	<b>158+2</b>	<b>2370+30</b>

**Note:**

\*Apprenticeship I & II –During V & VI semester’s students will be undergoing apprenticeship for a period of one year in companies pertaining to logistics and manufacturing sector in accordance with the logistics sector skill council regulations At the end of one semester LSC will be conducting DAA (Degree Apprenticeship Assessment) through AI proctored assessment mode.

**Part III****Discipline Specific Elective (DSE)**

Sem	Part	Course Code	Course Title	Hours/Wk.	Credits	Marks
5	III	24BML3201	Maritime Freight	2	2	30
5	III	24BML3203	Export & Import Documentation	2	2	30
5	III	24BML3205	Commercial Geography	2	2	30
6	III	24BML3202	Multimodal Transportation	2	2	30
6	III	24BML3204	Maritime Environment	2	2	30
6	III	24BML3206	PPP in Port Sector	2	2	30

**Note:**

\*Students are to choose 2 discipline specific elective per semester (5&6) from a pool of 3.

\* All discipline specific elective courses are offered online by Logistic Sector Skill Council (LSC).

**Part IV****Non-Major Electives (NME)**

<b>Sem</b>	<b>Part</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Hours/Wk.</b>	<b>Credits</b>	<b>Marks</b>
1	IV	24BML1201	Introduction to General Logistics	3	2	30
2	IV	24BML1202	Basics of Maritime Logistics	3	2	30

**Skill Enhancement Course (SEC)**

<b>Sem</b>	<b>Part</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Hours/Wk.</b>	<b>Credits</b>	<b>Marks</b>
3	IV	24BML2201	Entrepreneurial Skills	3	2	30
4	IV	24BML2202	Soft Skills for Logistics	3	2	30

### Mapping with POs

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>BML</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>

### Mapping of Courses with PSOs

Courses	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
24BML1401	3	2	1	2	2	2	2	2	2	2
24BML1501	3	2	1	1	2	2	3	2	3	2
24BML1403	3	3	2	2	2	2	2	2	1	2
24BML1405	2	3	2	2	2	2	2	2	2	2
24BML1502	3	2	2	2	2	3	3	2	3	3
24BML1402	2	2	2	3	3	2	3	3	3	3
24BML1404	2	2	3	2	2	2	3	3	3	3
24BML1200	2	3	2	2	2	2	2	1	2	2
24BML2501	2	3	2	2	3	3	2	2	3	3
24BML2401	2	2	3	2	2	3	2	2	3	3
24BML2403	3	3	3	2	2	2	3	3	3	2
24BML2301	2	3	2	2	2	2	2	2	3	2
24BML2405	2	1	2	2	2	2	2	3	2	2
24BML2502	2	3	3	2	2	3	2	3	3	3
24BML2504	2	3	3	3	3	2	2	3	3	3
24BML2302	3	3	3	2	3	3	3	3	3	3
24BML2304	2	3	3	2	2	3	2	3	3	3
24BML2402	2	3	2	2	2	2	3	2	3	2
24BML3250	3	3	3	3	3	2	3	3	3	3
24BML3201/ 24BML3203/ 24BML3205	2	3	3	2	2	2	3	2	2	3
24BML3230	3	3	3	3	3	2	3	2	3	3
24BML3202/ 24BML3204/ 24BML3206	2	3	3	2	2	2	3	2	2	2
<b>Average</b>	2.3	2.6	2.4	2.1	2.2	2.2	2.5	2.3	2.6	2.5

**Mapping of Courses with POs**

<b>Courses</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
24BML1201	2	2	2	2	3	2	1	1	2	2
24BML1202	2	1	3	1	2	2	2	2	2	2
24BML2201	2	2	1	1	2	3	3	3	2	3
24BML2202	3	3	2	2	2	2	2	2	2	3
<b>Average</b>	2.3	2	2	1.5	2.3	2.3	2	2	2	2.5

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML1401	Fundamentals of Logistics	Core	4	4

**Course Objective:** This course intends the students in the field of Logistics and to develop competencies and knowledge of students to become logistics professionals.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the strategic role of logistics management

**CO2:** discern customer service, procurement and outsourcing

**CO3:** identify the important modes of logistics operations by understanding the supply chain techniques from a global perspective.

**CO4:** examine and evaluate Warehousing, Transportation and E-Commerce operations

**CO5:** justify the EXIM processes, Cold Chain, Liquid Logistics & Rail Logistics

**Unit I:** **(12 Hours)**

Introduction to Logistics- Definition of Logistics – Evolution 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

**Unit II:** **(12 Hours)**

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

**Unit III:** **(12 Hours)**

Global Logistics - 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 Centers in Integrated Logistics. Role of 3PL&4PL.

**Unit IV: (12 Hours)**

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

**Unit V: (12 Hours)**

a) EXIM: Brief on EXIM/FF&CC, Multi-modal transportation, brief on customs clearance, bulk load handling and brief on trans-shipment. b) Supply chain. c) Cold chain. d) Liquid Logistics. e) Rail Logistics.

**Learning Resources:****Text Book:**

1. LSC Course Material

**Reference Book:**

1. Douglas Lambert, James R Stock, Lisa M. Ellram, McGraw-hill/Irwin, Fundamentals of Logistics Management (The Irwin/Mcgraw-Hill Series in Marketing), First Edition, 1998.
2. Vinod V. Sople Logistic Management (2nd Edn.) Pearson Limited, (2009)

**CO-PSO Mapping****24BML1401- Fundamentals of Logistics**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	3	3	1	3	1	1	1	3	1	1
<b>CO 2</b>	3	3	1	3	3	3	3	3	3	3
<b>CO 3</b>	2	1	2	1	3	3	3	1	2	2
<b>CO 4</b>	2	1	1	1	1	2	1	1	3	2
<b>CO 5</b>	3	2	1	2	2	2	2	2	2	3
<b>Average</b>	2.6	2	1.2	2	2	2.2	2	2	2.2	2.2

**Strong - 3    Medium - 2    Low - 1**

\* Third-party logistics is abbreviated as 3PL

\* Fourth party logistics is abbreviated as 4PL

\* Export Import Documentation is abbreviated as EXIM

\* Freight Forwarding & Charges Collecting is abbreviated as FF & CC



Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML1501	Introduction to Maritime Logistics	Core	5	5

**Course Objective:** This course intends the students in the basics of Logistics and to develop knowledge specifically on Maritime Logistics.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the history and evolution of logistics.

**CO2:** discern the roles of various Logistics service providers.

**CO3:** acquaint themselves with customer expectation from the perspective of a logistics Service provider.

**CO4:** outline the Maritime history of India and classify the sea ports.

**CO5:** demonstrate the purpose and details of Sagarmala Project.

**Unit I:** (15 Hours)

Logistics: Meaning– Objectives – Elements and activities involved in logistics - Modes of Transportation- Role and importance of Logistics - Concept of derived demand.

**Unit II:** (15 Hours)

Outsourcing Logistics – Integrated Logistics - Third party logistics provider - Fourth party Logistics providers- (4PL).

**Unit III:** (15 Hours)

Logistics Strategy - Role of logistics managers in strategic decisions- Strategy options, Lean strategy, Agile Strategies – Economy of scale – Customer expectations from Logistic Service Provider.

**Unit IV:** (15 Hours)

Maritime Logistics- Elements of Maritime history of India – Sea port - Major and Non-Major ports of India - Major Shipping routes- International Maritime Organisation – Coastal shipping in India.

**Unit V:****(15 Hours)**

Port based development Sagarmala- Modernisation of Ports – Capacity enhancement of ports  
 - Creation of New Ports –Port Connectivity - Port led Industrialization -- Coastal Shipping -  
 Port based Employment.

**Learning Resources:****Text Book:**

1. LSC Course Material

**Reference Book:**

1. Satish C. Ailawadi and Rakesh Singh: Logistics Management, Prentice-Hall of India Pvt Ltd., New Delhi, 2005

**CO-PSO Mapping****24BML1501- Introduction to Maritime Logistics**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	3	2	1	1	1	2	2	1	3	1
<b>CO 2</b>	3	1	2	1	2	2	3	1	3	1
<b>CO 3</b>	3	1	2	1	2	2	3	2	3	1
<b>CO 4</b>	3	3	1	1	2	2	2	2	2	2
<b>CO 5</b>	2	1	1	1	2	2	3	2	3	3
<b>Average</b>	2.8	1.6	1.4	1	1.8	2	2.6	1.6	2.8	1.6

**Strong - 3    Medium - 2    Low - 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML1403</b>	<b>Accounting for Managers</b>	<b>Core</b>	<b>4</b>	<b>4</b>

**Course Objective:** This course intends to familiarize students with Accounting Concepts

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** underline accounting principles

**CO2:** ascertain the financial status and performance of the business enterprises on the basis of financial statement analysis.

**CO3:** develop analytical and interpretative skills in the use of financial accounting information, and to know about fund flow & cash flow statement

**CO4:** examine the basic concepts of cost accounting.

**CO5:** interpret transactions to generate financial statements through the Marginal Costing, Absorption costing, P/V ratio and breakeven point

**Unit I:** (12 Hours)

Accounting Principles – Concepts – Basic of Accounting – Journal – Ledger – Trial Balance – Preparation of Trading and Profit and Loss account and Balance Sheet (problems)– Depreciation methods.

**Unit II:** (12 Hours)

Financial Statement analysis–Objectives–Accounting Ratio's; Liquidity; Profitability, turnover and market test ratios– Problems and computation and interpretation of various accounting ratios.

**Unit III:** (12 Hours)

Fund flow statement analysis sources and applications of funds – Statement of changes in working capital –Computation of fund from operations – Working for computation of various sources and uses – Preparation of fund flow statement – Cash flow statement (Problems) – Distinction between funds flow and cash flow statement.

**Unit IV:****(12 Hours)**

Cost Accounting –meaning – Distinction between accounting and cost accounting – Cost terminology; cost, cost centre, cost unit – Elements of cost – Cost Sheet – Problems –Target costing; concept and applications.

**Unit V:****(12 Hours)**

Marginal Costing – Definition – Distinction between marginal costing and absorption costing – Decision-making under marginal costing system – Contribution, Profit Volume Ratio(P/V), limiting factor, Margin of Safety, Breakeven Point (problems)-Computation of break-evenpoint.

**Learning Resources:****Text Book:**

1.T. S. Reddy and Hari Prasad Reddy-Management Accounting, Maegham Publication.

**Reference Book:**

1. SN Maheswari, Management Accounting - Sultan Chand & Sons
2. Jhamb, Fundamentals of Management Accounting – An eBooks India - New Delhi.
3. HorngrenSunderu Stratton, Introduction to Management Accounting - Pearson Education.

**CO-PSO Mapping****24BML1403 - Accounting for Managers**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	1	1	1	1	3	1	1	1
CO 2	2	2	1	2	1	1	3	2	1	2
CO 3	2	3	2	2	2	2	2	2	1	1
CO 4	3	2	3	2	3	2	2	2	1	2
CO 5	3	3	2	2	2	3	1	1	1	2
Average	2.6	2.6	1.8	1.8	1.8	1.8	2.2	1.6	1	1.6

Strong - 3    Medium - 2    Low - 1

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML1405</b>	<b>Managerial Communication</b>	<b>Supportive</b>	<b>5</b>	<b>4</b>

**Course Objective:** This course intends to provide students an exposure to the corporate /business communication networks, ethics and practices

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the meaning, role, and functions of communications.

**CO2:** identify the various styles of communication at the workplace.

**CO3:** prepare reports and business correspondence.

**CO4:** demonstrate conferences, meetings, presentations and exhibit group discussion skills.

**CO5:** construct various employment skills in presentations, writing a resume, and facing an Interview.

**Unit I:** **(15 Hours)**

Introduction to Managerial Communication-Elements of Communication- Process of communication- Types of communication-Barriers in Communication- Characteristics of effective communication- Perspectives in communication.

**Unit II:** **(15 Hours)**

Workplace communication styles- Academic & workplace vocabularies- Components of verbal & Nonverbal communication- Components of active listening.

**Unit III:** **(15 Hours)**

Business writings- Basic principles of written communication- Types of business letters- Components of business letters- Strategies for writing body of the letter- Report writing- Steps in writing a business report.

**Unit IV:** **(15 Hours)**

Presentation skills- Elements of presentation- Use of presentational aids- ethics in business communication- Group discussion & team presentation- Planning and delivering a presentation- Do's & Don'ts in presentation - Lead a meetings and conference.

**Unit V:** **(15 Hours)**

Employment skills-Building careers & writing resumes-types of resumes- -steps in writing a resume- purpose of an interview- Do's & Don'ts of an interview.

### Learning Resources:

#### Text Books:

1. Andreja.J.Ruther Ford, Basic communication skills for technology

#### Reference Books:

1. Sanjay Kumar, pushpalata- Communication skills
2. RC.Bhatia, Business Communication
3. RK.Madhukar, Business Communication

### CO-PSO Mapping

#### 24BML1405 – Managerial Communication

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	2	-	2	2	1	3	1	2	1
CO 2	2	3	2	2	2	1	1	1	2	1
CO 3	2	3	2	1	1	1	2	-	2	2
CO 4	2	3	2	-	1	3	3	2	2	3
CO 5	1	2	-	2	1	3	1	1	2	2
Average	2	2.6	2	1.7	1.7	1.8	2	1.2	2	1.8

Strong - 3    Medium - 2    Low - 1

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML1201	Introduction to General Logistics	Non-Major Elective	3	2

**Course Objectives:** This course intends to provide students of other disciplines on overview of Logistics and its modalities.

**Course Outcomes:** On completion of the course, students will be able to

**CO1:** identify the basic knowledge of logistics.

**CO2:** recognise the order processing system.

**CO3:** illustrate the importance of warehousing and packaging functions.

**CO4:** examine knowledge on global logistics & supply chain management.

**CO5:** justify with logistic information and its functioning.

**Unit I: (9 Hours)**

Introduction to logistics management: What is logistics? – Types of logistics – Scope and importance of logistics management, Logistical activities, The role of logistics in supply chain management.

**Unit II: (9 Hours)**

Order processing: The customer order cycle – Order management system – Order processing categories – Electronic Commerce.

**Unit III: (9 Hours)**

Warehousing and Packaging: The warehousing – consolidation – product mixing – Cross-docking – The packaging functions – Warehousing functions – Types of warehouses.

**Unit IV: (9 Hours)**

Global Logistics: International logistics – Just in Time – Electronic Data Interchange – Early Supplier Involvement - Major concepts in global logistics – International supply chain.

**Unit V: (9 Hours)**

Logistics Information: Principles of logistical information - Logistics information technologies - Bar coding – Data management – Artificial intelligence/Expert systems.

**Learning Resources:**

**Text Books:**

1. K. ShridharaBhat: Logistics Management, Himalaya Publishing House, Mumbai, 2018.

**Reference Books:**

1. Douglas Lambert, James R Stock, Lisa M. Ellram, McGraw-hill/Irwin, Fundamentals of Logistics Management (The Irwin/Mcgraw-Hill Series in Marketing), First Edition, 1998.
2. Vinod V. Sople, Logistic Management (2nd Edn.) Pearson Limited, (2009).

**CO-PO Mapping****24BML1201- Introduction to General Logistics**

	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO 9</b>	<b>PO 10</b>
<b>CO 1</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>CO 2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>3</b>
<b>CO 3</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>
<b>CO 4</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>3</b>
<b>CO 5</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>Average</b>	<b>2</b>	<b>1.6</b>	<b>1.7</b>	<b>2</b>	<b>2.2</b>	<b>2.6</b>	<b>1.2</b>	<b>1.2</b>	<b>1.7</b>	<b>1.8</b>

**Strong - 3    Medium - 2    Low - 1**



Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML1502	Warehouse Management	Core	5	5

**Course Objective:** This course intends to orient students in the field of warehousing and to develop competencies and knowledge essential to become Warehouse professionals.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** understand the dynamics of warehouse management's functions, concepts, and Techniques.

**CO2:** discuss the meaning and functioning of ASN (Advanced Shipping Notice) and Dispatch Process.

**CO3:** summarize warehouse activities and cross docking strategies.

**CO4:** justify trends in Warehousing Sector.

**CO5:** revise the safety rules, know the importance of Personal Protective Equipment and understand 5'S concept.

**Unit I:** (15 Hours)

Introduction to Warehouse, Evolution, Functions of Warehouse, Types, Warehouse Layout and Equipment, Parts of Warehouse, Warehouse Management System, Warehouse Organization Chart, Benefits of Warehousing.

**Unit II:** (15 Hours)

Process involved in Goods Receiving, Concept of Advanced Shipment Notice, Goods Receipt check list, put away of goods and its process, Warehouse Dispatch and its process, Warehouse Document checklist.

**Unit III:** (15 Hours)

Warehouse Activities, Concept of Quality Check: Need, Importance, Dispatch Note, Concept of Cross Docking, Benefits, Types, Packaging: Importance and various options of packaging and Packaging Materials and Machines.

**Unit IV:** (15 Hours)

Warehouse Utilization Management, Material Handling Equipment: Uses, Classification, Inventory Management in Warehouse, Measuring Warehouse Performance – Key Performance Indicator, Physical Distribution: Objectives, Need. Types of Distribution Channel.

**Unit V:****(15 Hours)**

Safety Rules to be followed in Warehouse, Handling of Hazardous Cargo, Safety Data Sheet, Environment Health Safety (EHS) Guidelines, 5S Concept: Terms, Origin, Benefits, Personal Protective Equipment and its uses.

**Learning Resources:****Text Book:**

1. LSC Course Material

**Reference Book:**

1. J P Saxena, Warehouse Management and Inventory Control- Vikas Publication House Pvt Ltd, First Edition, 2003.
2. Warehouse Management: Automation and Organisation of Warehouse and Order Picking Systems [With CDROM], Michael Ten Hompel, Thorsten Schmidt, Springer-verlag, First Edition, 2006.

**CO-PSO Mapping****24BML 1502 – Warehouse Management**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>3</b>
<b>CO 2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>CO 3</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
<b>CO 4</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>CO 5</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>Average</b>	<b>2.6</b>	<b>1.5</b>	<b>2</b>	<b>1.6</b>	<b>1.7</b>	<b>2.6</b>	<b>2.6</b>	<b>2.4</b>	<b>2.5</b>	<b>2.6</b>

**Strong - 3    Medium - 2    Low - 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML1402</b>	<b>Port Terminal Management</b>	<b>Core</b>	<b>4</b>	<b>4</b>

**Course Objective:** This course intends the students to provide basic knowledge on the functioning of Ports and Terminals.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the basic functions of Ports and Terminals.

**CO2:** demonstrate the administrative functions at ports.

**CO3:** contrast the concept of Storage Yards & Ballast Water Management.

**CO4:** examine the Port-based Business Initiatives in India.

**CO5:** justify the port management and governing principles.

**Unit I:** **(12 Hours)**

Main functions of a Port- Importance of port infrastructure- Evolution of modern ports – main functions of a port – Administrative functions – Types of cargo – Classification of port based on functions – Port infrastructure - Port Equipment- Introduction to ship terminology – History of containerization.

**Unit II:** **(12 Hours)**

Port Operations- Berths and terminals- Services rendered in a Port – pre-shipment planning- stowage plan and on-board stowage- yard planning- Transport movement planning- developments in container/cargo handling-safety-security.

**Unit III:** **(12 Hours)**

Storage yards- Rail sidings- Rail operations – Stevedoring- Layout and working of container terminals. Port system and sub systems, Value added service- bunkering- Ballast water management.

**Unit IV:** **(12 Hours)**

Factors affecting choice of a port – Productivity parameters and factors determining productivity. Measuring and evaluating – performance and productivity – Ease of Doing Business initiatives in India.

**Unit V:****(12 Hours)**

Port Organization-Service Port- Tool Port-Land lord Port- Captive berths- Introduction to Public Private Partnerships in Ports –Port ownership in Indian scenario- Acts regulating ports in India. Responsibilities of port trusts, growth and status of ports in India- Pricing of Port services- TAMP guidelines- cost plus method-normative method.

**Learning Resources:****Text Book:**

1. LSC Course Material.

**Reference Book:**

1. PATRICKM. ALDERTON(2008) Port Management and Operations. Informa Law Category, U.K.
2. Institute of Chartered Ship Broking Port and Terminal Management, London, (2015)

**CO-PSO Mapping****24BML1402 – Port Terminal Management**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>-CO 2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
<b>CO 3</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>CO 4</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>
<b>CO 5</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>
<b>Average</b>	<b>1.8</b>	<b>2.4</b>	<b>1.8</b>	<b>2.6</b>	<b>2.6</b>	<b>1.4</b>	<b>2.8</b>	<b>2.6</b>	<b>2.6</b>	<b>2.6</b>

**Strong - 3    Medium - 2    Low - 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML1404</b>	<b>ICD and CFS Operations</b>	<b>Core</b>	<b>4</b>	<b>4</b>

**Course Objective:** This course intends to provide students with basic knowledge on the design and functions of Inland Container Depots and Container Freight Stations.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** remember the role and functions of CFS.

**CO2:** describe the basics of cargo movement & container storage.

**CO3:** examine the customs procedures in CFS.

**CO4:** justify the role and functions of ICD.

**CO5:** identify the various types of Dry Ports and SEZ.

**Unit I:** (12 Hours)

CFS – Role and Functions- Receipt and dispatch/delivery of cargo/ Stuffing and stripping of containers/ Transit operations by rail/road to and from serving ports/ Customs clearance / Consolidation and desegregation of LCL cargo/ Temporary storage of cargo and containers / Reworking of containers / Maintenance and repair of container units.

**Unit II:** (12 Hours)

The physical movement of cargo in or out of Container Freight Station - Stuffing, sealing and marking of containers for labelling and identification - Storage of containers.

**Unit III:** (12 Hours)

Ordinary sorting and stacking of containers pre or post shipment -Preparing containers internal load plan - Customs activities in CFS- Use of Buffer yards in CFS- Manpower in CFS- Charges for services-Marketing of CFS.

**Unit IV:** (12 Hours)

ICD- Role and Functions- Operations carried out in ICD-Customs activities in CFS- Manpower in ICD-Rail carriers – CONCOR and private Rail Operators- Improving the service quality in ICD.

**Unit V:****(12 Hours)**

Dry Ports-Inland Ports- Movement of cargo from/to Land locked Areas- Operations proposed in Dry Ports-Factors for successful functioning of Dry Ports- Free Trade Areas- SEZ.

**Text Book:**

1. LSC Course Material.

**Reference Book:**

1. Rama Gopal, C. Export Import Procedures – Documentation and Logistics, New Age International Publishers, New Delhi

**CO-PSO Mapping****24BML1404 – ICS and CFS Operations**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>
<b>CO 2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>CO 3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>CO 4</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>CO 5</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>
<b>Average</b>	<b>2.2</b>	<b>2.2</b>	<b>2.6</b>	<b>2</b>	<b>2.2</b>	<b>1.8</b>	<b>2.6</b>	<b>2.6</b>	<b>2.6</b>	<b>2.6</b>

**Strong - 3    Medium - 2    Low - 1**

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24 BML1202	Basics of Maritime Logistics	Non-Major Elective	3	2

**Course Objective:** This course intends to provide students of other disciplines on overview of Maritime Logistics and its various aspects.

**Course Outcomes:** On completion of the course, students will be able to

**CO1:** state the evolution of logistics.

**CO2:** discuss the concepts of Integrated Logistics Management.

**CO3:** illustrate the port and shipping operations.

**CO4:** construct the barriers in Global Maritime Logistics.

**CO5:** familiarize with the basic documentation procedures in logistics

**Unit I:** (9 Hours)

Logistics: History and evolution – Objectives – importance – Types of transportation - Strategic role of logistics- model – process – activities.

**Unit II:** (9 Hours)

Elements of maritime – Integrated logistics management – Benefits of efficient logistics – Types of logistics service provider – Employment in logistics.

**Unit III:** (9 Hours)

Coastal communities-Sustainability aspects in Port and shipping Operations- Port based Employment.

**Unit IV:** (9 Hours)

Global maritime logistics – Forces driving globalization – International Major and non-Major ports – Barriers in global maritime logistics.

**Unit V:** (9 Hours)

Documentation procedure – Pre-Shipment and Post-Shipment procedure – processing of import and export order.

**Learning Resources:****Text Books**

1. LSC Course Material.

**References**

1. Logistics Management for International Business: Text and Cases, Sudalaimuthu & Anthony Raj, PHI Learning, First Edition, 2009.

**CO-PO Mapping****24BML1202- Basics of Maritime Logistics**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	2	2	2	2	3	2	2	2	2
CO 2	2	2	2	1	2	2	2	2	2	1
CO 3	2	1	3	1	2	2	2	2	1	1
CO 4	1	1	3	2	2	2	2	2	1	2
CO 5	1	1	3	1	3	3	2	3	3	2
Average	1.8	1.4	2.6	1.4	2.2	2.4	2	2.2	1.8	1.6

Strong - 3    Medium - 2    Low - 1



<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2501</b>	<b>EXIM Policies &amp; Procedures</b>	<b>Core</b>	<b>5</b>	<b>5</b>

**Course Objective:** This course intends to impart the knowledge on various key functions and operations on EXIM Policies & Procedures.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the basics of global trade, EXIM policies and procedures.

**CO2:** identify the various stages export and its process.

**CO3:** design the shipment procedures and EXIM documentation process.

**CO4:** classify the various functions of EXIM Banks.

**CO5:** organize with latest trends in Foreign Trade Policy.

**Unit I:** **(15 Hours)**

Elements of International Trade: Features of International Trade – Registration formalities for International Trade - Methods of entering into foreign market - Types of exporters–Methods of Exporting - Restricted items for Export & Import in India.

**Unit II:** **(15 Hours)**

Processing of Export Order - Various stages of exports - Processing of Import Order - Various stages of imports - Role of SEZ in EXIM Business.

**Unit III:** **(15 Hours)**

Pre-Shipment & Post-Shipment Procedure – Export & Import Documentation: Types of documents (Commercial documents & regulatory documents in Export & Import), Performa, Key documents – Invoice, certificates, custom documents and other documents/bills.

**Unit IV:** **(15 Hours)**

Banks & Payments –Role and Operations of EXIM Bank –Functions of EXIM Bank – Instrument of payment in EXIM - Negotiation of documents - Export promotion council in India.

**Unit V:** **(15 Hours)**

Foreign Trade Policy –Export Incentives in India – Export Promotion Organisation – Latest foreign trade policy - Current trends in India’s EXIM Trade (Export promotion organisation).

**Learning Resources:****Text Book:**

1. LSC Course Material.
2. Handbook of Import –Export Procedures- Ministry of commerce, Government of India, New Delhi.

**Reference Book:**

1. T.A.S. Balagopal. Export Management. Himalaya Publishing House.
2. Dr.Khushpat S, Jain. Export Procedures and Documentation. Himalaya Publishing House.

\*Export Import is abbreviated as EXIM

\*Special Economic Zone abbreviated as SEZ

**CO-PSO Mapping****24BML2501 – EXIM Policies & Procedure**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>
<b>CO 2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>CO 3</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>
<b>CO 4</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>
<b>CO 5</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Average</b>	<b>2.4</b>	<b>2.6</b>	<b>1.6</b>	<b>1.8</b>	<b>2.6</b>	<b>2.8</b>	<b>2</b>	<b>1.8</b>	<b>3</b>	<b>2.8</b>

**Strong - 3    Medium - 2    Low - 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2401</b>	<b>Coastal &amp; Inland Water Transportation</b>	<b>Core</b>	<b>4</b>	<b>4</b>

**Course Objective:** This course intends to familiarize the students with the international and domestic know-hows of Coastal shipping & Inland Water Transportation.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state coastal shipping and their growth trends.

**CO2:** describe short sea shipping and its various aspects of Coastal and Inland Water Mode.

**CO3:** evaluate the issues in navigation & modal shift.

**CO4:** construct the importance and future development of Indian Waterways.

**CO5:** justify of international experience in Inland Waterways.

**Unit I: (12 Hours)**

Coastal Shipping: Advantages-Growth trends in India- Impediments in the Growth- International trends- Major and Non-Major Ports of India - Indian Fleet- Captive Cargo- Potential Cargo- Distribution of Automobiles through Coastal- Issues of return Cargo.

**Unit II: (12 Hours)**

Short Sea Shipping: Cost Aspects – Incentives - Aspects of level Playing Field with foreign lines -. Cabotage- Measures to improve Coastal Tonnage- Potential of passenger movement - Marco polo Programme.

**Unit III: (12 Hours)**

Inland Waterways: National Waterways of India - Road Connectivity to jetties - Cargo mobilization- Conditions for modal shift to water ways- Issues in Navigation- Infrastructure for inland waterways- issues in modal shift – Vessel management.

**Unit IV: (12 Hours)**

Inland waterways: India's experience – Nature and quantity of Cargo movement - Initiatives- Performance of NW - Comparison with other modes- creation of new waterways.

**Unit V: (12 Hours)**

Inland Waterways: Learning's from International experience – Europe Union initiatives.

**Learning Resources:**

1. **Text Book:** LSC course material.

**Reference Book:**

Web site: <http://iwai.nic.in/>

**CO-PSO Mapping****24BML2401 – Costal & Inland Water Transportation**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
<b>CO 2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>
<b>CO 3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>CO 4</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>CO 5</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>
<b>Average</b>	<b>2.2</b>	<b>1.6</b>	<b>2.6</b>	<b>2.4</b>	<b>2</b>	<b>2.6</b>	<b>2.2</b>	<b>1.8</b>	<b>2.8</b>	<b>3</b>

**Strong - 3    Medium - 2    Low - 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2403</b>	<b>Freight Forwarding</b>	<b>Core</b>	<b>4</b>	<b>4</b>

**Course Objective:** This course intends develop learners' competencies and knowledge to become freight forwarding professionals in the field of Logistics

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the basic knowledge of freight forwarding procedure.

**CO2:** describe about customs clearance procedures, documentation and Multimodal Transportation.

**CO3:** interpret the operation procedures of freight forwarding.

**CO4:** analyze the basic regulation pertaining to Cargo movement.

**CO5:** justify documentation procedure in various accepts of logistical sector.

**Unit I:** **(12 Hours)**

Introduction to International Trade, Freight Forwarding: History and Activities, Custom Clearance and its Importance, Certificate of Origin and ICEGATE, Categories of Freight Forwarder, Concept of Third-Party Logistics.

**Unit II:** **(12 Hours)**

Multimodal Transportation: Role of MTO, Objectives, Bulk Load Handling, Dangerous Goods Handling, Concept of Transshipment, Custom Clearance: Import Cargo and Export Cargo, Bill of Entry and its Types, Stages of Custom Clearance.

**Unit III:** **(12 Hours)**

Operating Procedures of Freight Forwarding, Role of Intermediaries in Logistics, Steps involved in international carriage, IATA and Custom House Agents (CHA), Documents required for shipping.

**Unit IV:** **(12 Hours)**

Introduction to Freight and Cargo, Types of Cargo, Cargo Handling Equipment's (CHE), Factors determining CHE, INCOTERMS and its types, Concept of Airway Bill, Steps involved in Export and Import of goods, Cargo movement regulations.

**Unit V:** **(12 Hours)**

Transportation Document, Airway Bill Format, Functions of Bill of Lading, Operating Functions of Freight Forwarder, Methods of Entry into Foreign Market, Terms of Payment, Concept of Letter of Credit with its types, Types of exchange rates in international trade.

**Learning Resources:****Text Book:**

Course Material Prepared by LSC.

**Reference Book:**

1. J P Saxena, Warehouse Management and Inventory Control- Vikas Publications Pvt Ltd, 2003.

- \* Indian Customs Electronic Gateway is abbreviated as ICEGATE
- \* Multi-Modal Transport Operation is abbreviated as MTO
- \* International Commercial Terms is abbreviated as INCOTERMS
- \* International Air Transport Association is abbreviated as IATA

**CO-PSO Mapping****24BML2403 – Freight Forwarding**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	3	2	3	2	1	3	2	2	3	3
<b>CO 2</b>	2	3	2	2	2	2	3	3	2	2
<b>CO 3</b>	3	3	3	2	3	2	3	2	3	1
<b>CO 4</b>	2	2	2	1	3	3	3	3	3	3
<b>CO 5</b>	3	3	3	2	3	2	3	3	3	1
<b>Average</b>	2.6	2.6	2.6	1.8	2.4	2.4	2.8	2.6	2.8	2

**Strong - 3    Medium - 2    Low – 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2301</b>	<b>Marketing Management</b>	<b>Core</b>	<b>3</b>	<b>3</b>

**Course Objective:** This course intends to familiarize students with concept and framework of Marketing Management

**Course Outcomes:** At the end of the course, students will be able to,

**CO1:** list the marketing concepts and trends in the market.

**CO2:** classify the consumer behavior and market trends.

**CO3:** implement the marketing mix concepts and product life cycle strategies.

**CO4:** analyze various marketing channels and corresponding strategies.

**CO5:** justify the process of personal selling and applying the sales promotional methods.

**Unit I:** **(9 Hours)**

Market and Marketing: Distinction between marketing and selling - Types of market – Concepts – Functions - Marketing management – Objectives – Importance – Marketing Environment – Marketing information system.

**Unit II:** **(9 Hours)**

Market Segmentation: Criteria of effective segmentation – Benefits – Bases for market segmentation - Factors influencing consumer behaviour – Buyer motives – Buying.

**Unit III:** **(9 Hours)**

Marketing Mix - Product planning and development – Product mix decisions – New product development – Product life cycle and strategies - Pricing – Meaning – Influencing factors – Objectives – Pricing methods.

**Unit IV:** **(9 Hours)**

Marketing channels -Need and importance – Classification – Types of Intermediaries – Wholesalers – Functions – Retailers – Functions - Physical distribution – Elements of physical distribution (logistics).

**Unit V:****(9 Hours)**

Promotion mix - Personal selling –Process - Advertising – Objectives – Types – Sales promotion – Objectives – Sales promotion methods, publicity and public relations.

**Learning Resources:****Text Book:**

1.R.S.N.Pillai&Bhagavathi, Marketing Management, S Chand Publishing, 2022

**Reference Book:**

1. Philip Kotler, Marketing Management, Prentice Hall of India.
2. Ramaswamy and Namakumari, Marketing Management 3/e Revised MacMillan I Ltd

**CO-PSO Mapping****24BML2301 – Marketing Management**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>
<b>CO 2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
<b>CO 3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>
<b>CO 4</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>CO 5</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Average</b>	<b>2.2</b>	<b>2.2</b>	<b>1.6</b>	<b>1.8</b>	<b>1.6</b>	<b>1.8</b>	<b>2.2</b>	<b>2.2</b>	<b>2.8</b>	<b>2.4</b>

**Strong - 3    Medium - 2    Low - 1**



<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2405</b>	<b>Total Quality Management</b>	<b>Supportive</b>	<b>5</b>	<b>4</b>

**Course Objective:** This course intends to familiarize students with concept and framework of Total Quality Management.

**Course Outcomes:** At the end of the course, students will be able to,

**CO1:** list the basic concept of Total Quality Management.

**CO2:** discuss the importance of quality and the working of continuous improvement process.

**CO3:** apply the six sigma principles and its different tools can be adopted in the organization.

**CO4:** formulate the industrial practices through Benchmarking.

**CO5:** evaluate the need for quality management and environment management system in organization.

**Unit I:** **(15 Hours)**

Total Quality Management – Definition, characteristics, concepts, elements, pillars, principles, Barriers to TQM implementation, Benefits, Leadership, Strategic planning, Deming philosophy, Contributions of Quality Guru's: Deming – Juran – Corsby – Taguchi.

**Unit II:** **(15 Hours)**

Continuous process improvement – Introduction, Input/output process model, Jurantriology, Plan-Do-Study-Act (PDSA) cycle, 5W2H method, 5S House Keeping, Kaizen. Seven tools of Quality (Q-7 Tools)

– Check sheets, histogram, Cause and effect diagram, Pareto diagram, Stratification analysis, Scatter diagram, Control chart.

**Unit III:** **(15 Hours)**

The Six Sigma Principle – Meaning, Need, Concept, Process and Scope. New Seven Management tools – Affinity diagram, Relationship diagram, Tree diagram, Matrix diagram, Decision tree, Arrow diagram, Matrix data analysis diagram.

**Unit IV: (15 Hours)**

Bench marking – Introduction, meaning, objectives, types, process, benefits and pitfalls.  
Quality Function Deployment (QFD) – concept, objectives, House of quality, QFD methodology, QFD process and benefits.

**Unit V: (15 Hours)**

ISO 9000 Quality Management Systems – Introduction, meaning, need, ISO 9000 series of standards, classification and comparison of standards, selection of ISO standards, Registration, Documentation, Quality Auditing. ISO 14000: Environmental Management Systems – Introduction, concept, need, ISO 14000 series of standards, terminologies, requirements and benefits.

**Learning Resources:****Text Book:**

1.V. Jayakumar, R. Raju, Total Quality Management, Lakshmi Publications, Chennai, 2016

**Reference Book:**

1. K. ShridharaBhat, Total Quality Management: Text & Cases, Second Revised Edition, Himalaya Publishing House, Mumbai, 2016.
2. D. D Sharma, Total Quality Management – Principles, Practices and Cases, Sulthan Chand & Sons, New Delhi, 2008.

**CO-PSO Mapping****24BML2405 – Total Quality Management**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	2	2	2	2	3	1	3	3	2	3
CO 2	3	1	3	2	3	2	2	3	3	3
CO 3	2	1	3	2	2	1	3	3	2	2
CO 4	2	1	2	3	1	1	2	3	2	2
CO 5	3	1	2	3	2	3	2	3	2	2
Average	2.4	1.2	2.4	2.4	2.2	1.6	2.4	3	2.2	2.4

Strong - 3    Medium - 2    Low - 1

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2201</b>	<b>Entrepreneurial Skills</b>	<b>Skill Enhancement Course</b>	<b>3</b>	<b>2</b>

**Course Objective:** This course is intends to acquaint students with Entrepreneurial Concepts.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the concept of Entrepreneurship and its relation with manager.

**CO2:** describe the concept of Entrepreneur, Startups and Unicorns.

**CO3:** demonstrate the Entrepreneurial Competencies.

**CO4:** formulate Business Plan and execute Feasibility Analysis.

**CO5:** know how to launch a new enterprise and statutory requirements regarding it.

**Unit I:** **(9 Hours)**

Entrepreneurship Development: Introduction, Concept of Entrepreneurship, Need for Entrepreneurship; Characteristics; Relationship between Entrepreneurship and Management.

**Unit II:** **(9 Hours)**

Entrepreneur: Meaning and Definition, Types of Entrepreneurs, Role of Entrepreneurs in Economic Development, Start-ups and Unicorns.

**Unit III:** **(9 Hours)**

Entrepreneurial Competencies and Motivation: Need for Power, Need for Achievement, Need for Autonomy, Behavioural choices for Entrepreneurial Success.

**Unit IV:** **(9 Hours)**

Developing a Business Plan, Process of Setting up Business, Ownership Structure, Project Identification and Feasibility analysis.

**Unit V:** **(9 Hours)**

Launching of New Enterprise, Statutory Requirements for Starting an Enterprise, Memorandum of Association and Articles of Association.

**Learning Resources:****Text Book:**

1. Khanka S.S. Entrepreneurial Development, S. Chand & Co. Ltd., New Delhi.

**Reference Book:**

1. K. Ramachandran, Entrepreneurship Development, Tata McGraw Hill, New Delhi, 2008.
2. NCERT Material.

**CO-PO Mapping****24BML2201 – Entrepreneurial Skills**

	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO 9</b>	<b>PO 10</b>
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
<b>CO 2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>
<b>CO 3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>
<b>CO 4</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>
<b>CO 5</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>
<b>Average</b>	<b>2</b>	<b>2</b>	<b>1.4</b>	<b>1.4</b>	<b>1.8</b>	<b>2.6</b>	<b>2.8</b>	<b>2.6</b>	<b>1.8</b>	<b>2.6</b>

**Strong - 3    Medium - 2    Low - 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2502</b>	<b>Port – Inland Connectivity</b>	<b>Core</b>	<b>5</b>	<b>5</b>

**Course Objective:** This course intends to provide students with a basic concept of cargo movement to the port by various modes.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** define the entire concept of road transport system.

**CO2:** identify the operations in rail transport system

**CO3:** interpret the major Gate Access Operations in Ports

**CO4:** organize the cost incidence in road and rail transport

**CO5:** relate port connectivity in India & Industrial Corridor.

**Unit I: (15 Hours)**

Introduction to Road Transport System: Classification of vehicles - Road network in India - Road transport companies and their operation integrated logistics provided by road transport companies - Documents and permits required in road transport system. Problems in road transport - Regulatory authorities involved with road transport system.

**Unit II: (15 Hours)**

Rail Transport Systems: Types of railway wagons – Rakes- Railway goods freight structure - Operations. Railway goods service operations - Operations at a railway goods yard/siding - Operations and control in the railways - Organization of Indian railways- ICDs CONCOR Private Rail Operators.

**Unit III: (15 Hours)**

Gate Access Operations in Ports: Role in Direct Port Delivery – Direct Port Entry (DPD-DPE) - Information system applications – GPS – RFID- Liability and Claims following cargo damage- Conversion of Parking yards to processing zones.

**Unit IV: (15 Hours)**

Cost Incidence in road and rail transport to/from the Port: Case studies from Chennai and Jawaharlal Nehru Port Trust (JNPT).

**Unit V: (15 Hours)**

Port connectivity in India: DFCs- Western and Eastern- Industrial Corridor- Port based economic clusters- Dry ports- Cold logistics.

**Learning Resources:**

**Text Book:** LSC Course Material

**Reference Book:**

1. Logistics of facility location and allocation / Dileep R. Sule (Marcel Dekker)
2. Logistics & supply chain management / Martin Christopher,2011 (Prentice Hall Financial Times)

**CO-PSO Mapping****24BML2502 – Port – Inland Connectivity**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>CO 2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>
<b>CO 3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
<b>CO 4</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>CO 5</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Average</b>	<b>1.8</b>	<b>2.6</b>	<b>2.6</b>	<b>1.8</b>	<b>2</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>

**Strong - 3    Medium - 2    Low - 1**

\* Global Positioning System is abbreviated as GPS

\* Radio Frequency Identification is abbreviated as RFID

\* Dedicated Freight Corridor is abbreviated as DFC

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2504</b>	<b>Advanced Maritime Logistics</b>	<b>Core</b>	<b>5</b>	<b>5</b>

**Course Objective:** This course intends to container transactions and commerce, international policies, norms and regulations in containerisation.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the basics of Containerization in EXIM situations.

**CO2:** discuss regarding yard operations.

**CO3:** demonstrate their ability in Multi-Modalism and Multi-modal Trade Routes.

**CO4:** outline the conventions for the containerized transport.

**CO5:** interpret the role of port agents and chartering Negotiations.

**Unit I:** (15 Hours)

Container Ships: Terminal - Consideration of Container Terminal Planning — Container types - ISO Container Dimension by types - Features of Containerization – Container operators - Container Distribution.

**Unit II:** (15 Hours)

Storage of containers in yard and in vessels: Cargo and Container handling equipment – Shore cranes – Yard cranes – Information Technology enabled yard operations.

**Unit III:** (15 Hours)

Multi-Modalism Multi-modal Trade Routes: Evolution - Basic Intermodal System - Modal Interface – Advantages of Multi-modalism – Influencing Factors – Conventions Relating to Multimodal Transport Cargo Liability -Container Commerce.

**Unit IV:** (15 Hours)

IMO conventions for the containerised transport: SOLAS - - Dangerous Cargo - IMDG Code – Classes - Weight restrictions in containers – ISPS Code - MARPOL International Conventions relating to Bill of Lading - Hamburg Rule.

**Unit V:** (15 Hours)

Introduction to Chartering: Chartering-Voyage Charter-Time Charter-Chartering Negotiations- Chartering and the internet-Charter Parties-Construction of voyage charter

parties-Loading place and cargo-Loading rates-Lay days and cancelling date- Cost of loading and discharge- Time charter-The agents influence upon the charter- The port agents' role in charter party negotiations.

### Learning Resources:

**Text Book:** LSC Course Material.

### Reference Book:

1. ICS .2011/12, Ship Operations and Management. London, UK.
2. Hariharan, K. V. (2002) A Text Book on Containerization and Multimodal Transport. Shroff Publishers and Distributors: New Delhi.

\* International Maritime Organization is abbreviated as IMO

\* stands for Safety of Life at Sea is abbreviated as SOLAS

\* International Maritime Dangerous Goods is abbreviated as IMDG

\* International Ship and Port facility Security is abbreviated as ISPS

### CO-PSO Mapping

#### 24BML2504 – Advance Maritime Logistics

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	1	2	2	3	3	3	3	3	3	3
CO 2	2	3	3	2	3	2	2	2	2	2
CO 3	1	2	3	3	3	1	2	3	3	2
CO 4	2	3	3	2	3	3	3	3	2	3
CO 5	2	3	2	3	2	2	3	2	3	3
Average	1.6	2.6	2.6	2.6	2.8	2.2	2.4	2.6	2.6	2.6

Strong - 3    Medium - 2    Low - 1



<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2302</b>	<b>Marine Insurance</b>	<b>Core</b>	<b>3</b>	<b>3</b>

**Course Objective:** This course intends to familiarize students with International Insurance Practices and Claim Procedures.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** list concept of Marine Insurance.

**CO2:** express the interpret Inland transit insurance.

**CO3:** contrast the about insurance relating to EXIM cargo.

**CO4:** organize the concepts of marine insurance in Brokers' duties.

**CO5:** interpret the marine hull and machinery insurance.

**Unit I:** (9 Hours)

Introduction of Marine Insurances: Relevance of Principles of General Insurance to Marine- concept of insurable interest and utmost good faith Insured value- Assignment – INCOTERMS – Insurances of stock in Warehouses.

**Unit II:** (9 Hours)

Inland Transit Insurance: Critical underwriting aspects – Documents associated with Marine Cargo Insurance – Types of Policies- Risks included and excluded-- Risk Management in Marine Cargo Insurance – Claim procedure for Inland Transit Claims - Survey processes.

**Unit III:** (9 Hours)

Insurance of EXIM cargo: Marine Cargo Clauses – ICC (A)– ICC (B) and ICC (C) Clause – General Exclusion – General Inclusions - Insurance of freight – Claim procedure for Marine Cargo Claims- Documents required to substantiate claims- Express and Implied Warranties – Subrogation.

**Unit IV:** (9 Hours)

Marine Insurance Broker's duties: General average and salvage – Insured value – Marine Insurance Act 1963 – Jettison – Limits of Liability for carriers.

**Unit V:** (9 Hours)

Marine Hull & Machinery Insurances: Institute Clauses - War and strikes risk – Different types of Liability- Protection and Indemnity for ship owners and charterers.

**Learning Resources:****Text Book:**

LSC course material

**Reference Book:**

1. IC 70 - Marine Hull insurance underwriting and claims Published by Insurance Institute of India – 2015

2. IC 60 - Marine Cargo insurance principles and underwriting Published by Insurance Institute of India – 2015.

**CO-PSO Mapping****24BML2302 – Marine Insurance**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	3	3	3	1	3	3	2	3	3	3
<b>CO 2</b>	2	2	2	2	2	3	3	2	3	2
<b>CO 3</b>	3	2	3	3	3	3	3	3	3	3
<b>CO 4</b>	2	3	2	2	3	2	2	2	2	2
<b>CO 5</b>	3	3	3	3	2	3	3	3	3	3
<b>Average</b>	2.6	2.6	2.6	2.2	2.6	2.8	2.6	2.6	2.8	2.6

**Strong - 3    Medium - 2    Low - 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2304</b>	<b>Human Resource Management</b>	<b>Core</b>	<b>3</b>	<b>3</b>

**Course Objective:** This course intends to familiarize students with Human Resource Management Concepts

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the basic concept of human resource management.

**CO2:** describe the concept of HR Planning.

**CO3:** interpret the key issues of training, development and performance appraisal.

**CO4:** contrast the concepts of employee engagement, wage & salary administration and social securities.

**CO5:** justify the concepts of HR Records, HR Audit and Global HRM.

**Unit I:** **(9 Hours)**

Nature and scope of Human Resources Management - Roles of HR manager - Environment of HRM - Strategic HRM Process. Job analysis: Need – Process - Uses; Job Description: Content – Steps; Job Specification.

**Unit II:** **(9 Hours)**

Human Resource Planning: Factors affecting HRP – Process of HRP – Problems in HRP; Recruitment: Sources – factors affecting Recruitment; Selection: Procedure; Placement: Process; Induction.

**Unit III:** **(9 Hours)**

Training: Need – Methods – Procedure; Development: Methods; Promotion - Transfer and Demotion; Performance Appraisal: Methods – Problems. Job Evaluation: Procedure - Methods.

**Unit IV:** **(9 Hours)**

Employee Engagement: Evaluation- Measuring employee engagement; Employee Compensation: components; Incentives – Wage and salary administration - Social security measures.

**Unit V:****(9 Hours)**

Human Resource Records – Human Resource Audit - Ethics in HRM - Recent trends in HRM - Global HRM.

**Learning Resources:****Text Book:**

1. P. SubbaRao - Human Resource Management, Himalaya Publishing House.

**Reference Book:**

1. V S P Rao, Human Resource Management : Text & Cases, Excel Books, 3<sup>rd</sup> Edition, 2010
2. K.Ashwathappa, Human Resource Management- Text and cases, McGraw Hill Education India, 6<sup>th</sup> Edition
3. L M Prasad, Human Resource Management , Sultan Chand and Sons 3<sup>rd</sup> Edition, 2014
4. Shashi K. Gupta & Rosy Joshi, Human Resource Management, Kalayani Publisher 1st Edition, 2018
5. Tripathi. P C, Human Resource Management, Sultan Chand and Sons 1st Edition, 2010

\* Institute Cargo Clause is abbreviated as ICC

\* International Commercial Terms is abbreviated as INCOTERMS

**CO-PSO Mapping****24BML2304 – Human Resource Management**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>CO 2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>
<b>CO 3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>
<b>CO 4</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>CO 5</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Average</b>	<b>1.8</b>	<b>2.6</b>	<b>2.6</b>	<b>1.8</b>	<b>2</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>	<b>2.8</b>	<b>2.8</b>

**Strong - 3    Medium - 2    Low - 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2402</b>	<b>Operations Management</b>	<b>Supportive</b>	<b>5</b>	<b>4</b>

**Course Objective:** This course intends to familiarize students with the basics of operations management and explain the concepts, strategies, tools and techniques.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the Operations Management concepts.

**CO2:** describe the use of production management techniques in managerial decisions.

**CO3:** interpret the production planning and control techniques.

**CO4:** categorise the importance of work study and motion study.

**CO5:** measure the techniques of materials management and inventory control techniques.

**Unit I: (15 Hours)**

Introduction to Operations Management - Process Planning - Plant Location - Plant Lay out - Production Planning. Factors involved in selection of location – Steps in Location selection – Techniques of selection (Weber’s, Sargent Florence’s) – Plant layout – Factors influencing plant layout – Types of Layouts.

**Unit II: (15 Hours)**

Production Management – Components – Functions of a production manager – Decisions involved in production management – Relationship of production with other functions – Methods of production – Continuous and intermittent production systems.

**Unit III: (15 Hours)**

Objectives, functions and stages of PPC – Centralized and decentralized PPC – Information requirements of PPC– Problems in PPC – Elements -- Routing, Scheduling, Dispatching and Follow Up -- Techniques of PPC – CPM and PERT.

**Unit IV: (15 Hours)**

.Work study – Objectives – Components – Relationship of time and motion study to work study – Benefits of work study. Method study – procedure for method study – Techniques – Micro motion study – Process charts.

**Unit V:****(15 Hours)**

Materials management meaning , functions – purchasing – methods and procedures –cost of materials – store keeping –objectives – duties of store keeper – material issues – cost of inventory –Inventory Control – Inventory control techniques –ABC, EOQ, and Just-In-Time - - Essentials of good inventory control. Inspection – Functions – Steps in inspection – Types – quality control techniques.

**Learning resources****Text book**

1. Goel, B. S. Production Operations Management. Meerut: Pragati Prakashan, 2004. Print  
**Reference book(s):**

1. Aswathappa, K. Essentials of Production management. 4th ed, Mumbai: Himalaya Publishing House, 2015.Print
2. Joseph G. Monks. Operations Management. 2nd ed. New Delhi: Tata McGraw Hill, 2014. Print.
3. Chary, Production & Operations management. 3rd ed. New Delhi: Tata McGraw Hill, 2014. Print.

**CO-PSO Mapping****24BML2402 – Operations Management**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>CO 2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>
<b>CO 3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>
<b>CO 4</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>CO 5</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>2</b>
<b>Average</b>	<b>2</b>	<b>2.6</b>	<b>2</b>	<b>1.7</b>	<b>1.7</b>	<b>1.8</b>	<b>2.6</b>	<b>1.2</b>	<b>2.6</b>	<b>1.8</b>

**Strong - 3    Medium - 2    Low - 1**

<b>Course Code</b>	<b>Name of the Course</b>	<b>Category</b>	<b>Hours/Wk.</b>	<b>Credits</b>
<b>24BML2202</b>	<b>Soft Skills for Logistics</b>	<b>Skill Enhancement Course</b>	<b>3</b>	<b>2</b>

**Course Objective:** This course intends to familiarize students with the basics of computer skills and concepts.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the concept and functions of operating system.

**CO2:** know the basic word processing and presenting the document.

**CO3:** know the basic and advanced tasks in PowerPoint.

**CO4:** analyse the tasks in Microsoft Excel.

**CO5:** evaluate the Internet safely, legally, and responsibly.

**Unit I:** **(9 Hours)**

Introduction – Characteristics of Computer – Components of Computer – Operating system & basics of windows – The user interface – Window setting – Office tools outline – Turning off features.

**Unit II:** **(9 Hours)**

MS-Word – Introduction – Creating document – Formatting – Spell check – Grammar check – Working with tables – Saving, opening & closing document – Mail merge – Hyperlink creation – Working with menus.

**Unit III:** **(9 Hours)**

MS-PowerPoint – Creation – Working with menu's – Creating multimedia presentations Saving, opening & closing a presentation – Add & edit text slides – animation - Self running presentation.

**Unit IV:** **(9 Hours)**

MS – Excel – Introduction – Uses of excel – Spreadsheet windowpane – Working with menu's – Selecting & hiding rows & columns – Components of a Cell – Creating formulas – Creating charts – Pivot Tables.

**Unit V:****(9 Hours)**

Introduction to Internet –Browser – Search engine – Internet Protocols – FTP – TELNET – HTTP – E-Mail – How to create E-Mail – Create webpage – URL – Internet vs Intranet.

**Learning resources****Text Book:**

1. Computer Fundamentals, A. Goel, 2010, Pearson Education.
2. Fundamentals of Computers, P. K.Sinha& P. Sinha, 2007, BPB Publishers.

**Reference Book:**

1. Microsoft Excel 2016, Comprehensive friend, starks &Schmieder, 2017
2. Ravi Taxali (20147), PC Software for windows 98 made simple.

\* Protection Planning and Control is abbreviated as PPC

\* Program Evaluation Review Technique is abbreviated as PERT

\* Critical Path Method is abbreviated as CPM

**CO-PO Mapping****24BML2202 – Soft Skills for Logisites**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	2	2	2	2	1	3	1	2	3
CO 2	2	3	2	2	2	1	1	1	2	3
CO 3	3	3	3	1	1	1	2	2	2	2
CO 4	2	3	2	-	1	3	3	2	2	3
CO 5	3	2	3	2	1	3	1	1	2	3
Average	2.6	2.6	2.2	1.7	1.7	1.8	2	1.7	2	2.8

Strong - 3    Medium - 2    Low - 1



Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML1200	Environmental Studies	Ability Enhancement Course	3	2

**Course Objective:** This course intends to acquaint the learners with the knowledge and awareness of environment and pollution.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** define environment and its components.

**CO2:** discuss natural components and resources.

**CO3:** know their contribution towards pollution of natural resources and instead, saving them.

**CO4:** outline the opportunities for businesses to help promote conservation of nature and issues that endanger it.

**CO5:** relate the individual and social ethics that would create responsible human beings.

**Unit I:** (9 Hours)

Introduction: Environment - Terms and definition – Components.

**Unit II:** (9 Hours)

Structural Components: Types and functions of structural components of Biotic Organisms.

**Unit III:** (9 Hours)

Pollution: Pollutants - Types of Pollution - Industry and Pollution – Developing Countries and pollution.

**Unit IV:** (9 Hours)

Natural Environment: Impact on Business - Guidelines for development of natural resources.

**Unit V:** (9 Hours)

Control and Management: Pollution Control and Management - Legal Statutory Requirements.

**Text Book:**

1. Bharucha, Erach, Environmental Studies, Hyderabad, UGC University Press, 2005

**Reference Book:**

1. K.K. Kumarasamy, Environmental Studies, Bharathidasan University, 2004.

\* File Transfer Protocol is abbreviated as FTP

\* Teletype Network is abbreviated as TELNET

\* Uniform Resource Locator is abbreviated as URL

**CO-PO Mapping**

**24BML1200 – Environmental Studies**

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>CO 2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>CO 3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>
<b>CO 4</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>CO 5</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>Average</b>	<b>2</b>	<b>2.6</b>	<b>2</b>	<b>1.7</b>	<b>1.7</b>	<b>1.8</b>	<b>2</b>	<b>1.2</b>	<b>2</b>	<b>1.8</b>

**Strong - 3    Medium - 2    Low - 1**

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML3250	Apprenticeship- I	Internship	26	25

**Course Objective:** This course intends to familiarize students in the practical field of Logistics Sector.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** underline the activities of Warehousing and distribution centres in the real-life situation.

**CO2:** develop competencies and skills to become better Logistician.

**CO3:** combine the effective Organization Leadership with Teamwork skills.

**CO4:** perform the activities of E-Commerce, and Logistics terminal operations.

**CO5:** evaluate the direction of evolving business environments through self-Directed lifelong learning.

#### Assessment Guidelines:

\*Apprenticeship I & II –During V & VI semester’s students will be undergoing apprenticeship for a period of one year in companies pertaining to logistics and manufacturing sector in accordance with the logistics sector skill council regulations. At the end of each semester LSC will be conducting DAA (Degree Apprenticeship Assessment) through AI proctored assessment mode.

#### CO-PSO Mapping

##### 24BML3250 – Apprenticeship- I

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	3	2	3	3	3	3	3	3
CO 2	3	2	3	3	3	2	2	3	3	2
CO 3	2	3	3	2	3	1	3	3	2	3
CO 4	2	2	3	3	2	3	2	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3
Average	2.6	2.6	3	2.6	2.8	2.4	2.6	3	2.8	2.8

Strong - 3    Medium - 2    Low - 1

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML3201	Maritime Freight	Discipline Specific Course	2	2

**Course Objective:** This course intends to familiarize the student with advanced concepts in optimizing costs in liner transport.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the structure of shipping industry.

**CO2:** identify the maritime freight cost and shipping cycle.

**CO3:** analyze the concept of bill of lading and marine insurance.

**CO4:** know the transshipment hubs of the World.

**CO5:** evaluate the role of mercantile marine department.

**Unit I:** (6 Hours)

Structure of Shipping Industry: Chartering – Time – Voyage - Charter parties- bulk carriers - Ocean linear conference system Freight structure and practices – Coordination - role of intermediaries – Forwarding and clearing agents - Freight brokers - Stevedores and ship agents.

**Unit II:** (6 Hours)

Determinants of Maritime Freight cost: Distances -Economies of Scale- Imbalances Type and Value of goods – Port Characteristics- Competition- Mergers and acquisitions of Shipping Lines- Consortiums- Shipping cycles.

**Unit III:** (6 Hours)

Bill of Lading- Commercial documents: Obligations- INCO Terms- Volatility in ocean freights and measures to reduce the impact of fluctuations- Marine Insurance for Hull, machinery and cargo.

**Unit IV:** (6 Hours)

Non Vessel Operating Common Carrier (NVOCC) - LCL Consolidation- Feeder services- transshipments- major transshipment hubs of the world- requirement to be a transshipment hub.

**Unit V:** (6 Hours)

Role and functions of Ship owner: Carrier- Steamer agent - Main line operator- Feeder operator - Statutory authorities- Immigration department- Mercantile Marine department- PHO- PGAs.

**Learning Resources:****Text Book:**

1. LSC Course Material

**Reference Book:**

1. ICS .2011/12, Ship Operations and Management. London, UK.

**CO-PSO Mapping****24BML3201 – Maritime Freight**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>CO 2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>CO 3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>
<b>CO 4</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>CO 5</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Average</b>	<b>2</b>	<b>2.6</b>	<b>2.6</b>	<b>1.6</b>	<b>1.7</b>	<b>1.8</b>	<b>2.6</b>	<b>1.2</b>	<b>2</b>	<b>2.6</b>

**Strong - 3    Medium - 2    Low - 1**

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML3203	Export & Import Documentation	Discipline Specific Course	2	2

**Course Objective:** This course intends to familiarize the student with the basic concept of export trade, and the documentation process involved in it.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the classification of goods and registration formalities for exporting.

**CO2:** explain the regulatory documents and various types of contracts.

**CO3:** analyse the payment mechanism.

**CO4:** classify the quality control methods.

**CO5:** evaluate the custom clearance procedures.

**Unit I:** (6 Hours)

Classification of goods - Preparation for Exports - Methods of Exporting - Export Marketing Organizations - Functions - Registration formalities IEC Number - Procedure of obtaining IEC Number - RCMC (Registration Cum Membership Certificate) –Export Credit Guarantee Council (ECGC)- Application for import and export of restricted items.

**Unit II:** (6 Hours)

Aligned Documentation System: Commercial Documents - Auxiliary Commercial Documents - Regulatory Documents - Documents related to goods - Documents related to Shipment - Documents related to Payments - Documents related to Inspection - Documents related to Excisable Goods - Types of Contracts- Export Contracts.

**Unit III:** (6 Hours)

Payments and Finance - Methods of receiving Payment - Instruments of Payments-Letter of Credit Pre-shipment Finance - Post-shipment Finance - Post-shipment Credit in Foreign Currency - Negotiation of documents with bank - CENVAT - Duty Draw back

**Unit IV:** (6 Hours)

Objective of Quality Control -Methods- Procedure for Pre-shipment Inspection - Role of Clearing and Forwarding Agents – Role of Inspection Agents-Clearance of Cargo Central Excise Clearance Procedure – Central Excise Clearance Option - Shipment of Export Cargo.

**Unit V:****(6 Hours)**

Customs Clearance of Export Cargo - Customs Clearance of Import Cargo - Risk: Types - Types of cover issued by ECGC -Cargo Insurance. Processing of an export order-Major laws governing export contract.

**Learning Resources:****Text Book:**

1. RAMA, GOPAL C. (2008) Export Import Procedures Documentation and Logistics. New Age International Publishers: New Delhi.

**Reference Book:**

1. KHUSHPAT, S. J. (2013) Export Import Procedures and Documentation. Himalaya Publishing House: New Delhi. 3. PAWAN, KUMAR (2001) Export of India's Major Products Problems and Prospects. New Century Publications: New Delhi.
2. KAPOOR, D. C. (2002) Export Management. Vikas Publications: New Delhi.
3. CHERUNILAM, F. (2004) International Trade and Export Management. Himalaya Publications: New Delhi.

\* Port Health Officer is abbreviated as PHO

\* Partner Government Agency is abbreviated as PGA

**CO-PSO Mapping****24BML3203 – Export & Import Documentation**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>CO 2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>CO 3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>CO 4</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>CO 5</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>Average</b>	<b>2</b>	<b>2.6</b>	<b>2.6</b>	<b>2</b>	<b>1.7</b>	<b>1.8</b>	<b>2.6</b>	<b>1.7</b>	<b>2</b>	<b>2.6</b>

**3 – Strong    2 – Medium    1 - Low**

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML3205	Commercial Geography	Discipline Specific Course	2	2

**Course Objective:** This course intends the students about dynamic aspects of Commercial Geography.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the concepts of physical environment.

**CO2:** underline the physical factors of Indian context.

**CO3:** discuss the transportation system in India.

**CO4:** outline the world time zone.

**CO5:** examine the airport code sand world geography.

**Unit I: (6 Hours)**

Introduction to Geography: Definition, nature and scope, relation with other branches. - Meaning of environment, physical or natural environment and cultural or man-made environment, -Commercial activities: Primary, secondary, tertiary and quaternary activities – Factors affecting commercial activities of physical or natural factors: Location, climate, physiography.

**Unit II: (6 Hours)**

Physical factors: Location of India in the World map, longitudes, latitudes and equator, Size of country including landmass, List of States their capitals, important cities and town s/Union Territories,-India's population size & distribution-India and the world, its neighbours.

**Unit III: (6 Hours)**

Transportation systems in India: Inland & overseas. Roadways -National Highway including Golden Quadrilateral, East-West corridor, North-South corridor, National Highways numbers Railway junctions & connections – Airports international & domestic air port locations – Seaports – Industrial belts in India - Industrial Estates, SEZS, Export Processing zones, Textile zones, Leather zones, chemical zones.



**Unit IV: (6 Hours)**

Introduction to World Time Zone: Time Zones Green which Meantime Calculation of time zone—by using longitude-Local Time-Standard Time-International Date Line.

**Unit V: (6 Hours)**

IATA Airport Codes & World Geography: Introduction to IATA Airport Codes, its history importance and use in the air transportation business. Continents of the world and the counties in the subcontinents and regions Capital of the countries, important and commercial cities in the world-Currencies of the countries-Important commercial Airports, Travel time for shipments/cargo to various countries from India and vice versa –Trade lines to the world from India-Types of trade between the countries.

**Learning Resources:****Text Book:**

1. LSC course material

\* Central Value Added Tax is abbreviated as CENVAT

**CO-PSO Mapping****24BML3205 – Commercial Geography**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	2	3	2	2	1	3	1	2	1
CO 2	2	3	2	2	2	1	2	1	2	1
CO 3	2	3	2	1	1	1	2	-	2	2
CO 4	2	3	3	1	1	3	3	2	2	3
CO 5	1	2	3	2	1	3	3	1	2	2
Average	2	2.6	2.6	1.6	1.7	1.8	2.6	1.2	2	1.8

Strong - 3    Medium - 2    Low - 1

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML3230	Apprenticeship- II	Internship	26	25

**Course Objective:** This course intends to familiarize students in the practical field of Logistics Sector.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state and proficiency in the area of Maritime Logistics.

**CO2:** explain the Freight forwarding and Land transportation.

**CO3:** demonstrate proficient research-skills in various logistics operations ranging from port documentation to management of various port infrastructures and functions.

**CO4:** prepare logistics documentation.

**CO5:** evaluate Nurture responsibility, integrity and mutually respectful engagements in the diverse field of Logistics.

**Assessment Guidelines:**

\*Apprenticeship I & II –During V & VI semester’s students will be undergoing apprenticeship for a period of one year in companies pertaining to logistics and manufacturing sector in accordance with the logistics sector skill council regulations. At the end of each semester LSC will be conducting DAA (Degree Apprenticeship Assessment) through AI proctored assessment mode.

**CO-PSO Mapping**

**24BML3230 – Apprenticeship- II**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	3	2	3	3	3	3	3	3
CO 2	3	2	3	3	3	2	2	3	3	2
CO 3	2	3	3	2	3	1	3	3	2	3
CO 4	2	2	3	3	2	3	2	3	3	3
CO 5	3	3	3	3	3	3	3	3	3	3
Average	2.6	2.6	3	2.6	2.8	2.4	2.6	3	2.8	2.8

**Strong - 3    Medium - 2    Low - 1**

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML3202	Multi-Modal and Intermodal Transportation	Discipline Specific Course	2	2

**Course Objective:** This course intends to introduce Multi-modal and Intermodal Transport concepts.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** select the transportation system and its basics.

**CO2:** recognise the method of organizing a multi-modal transportation.

**CO3:** classify the Multimodal Transportation Act.

**CO4:** interpret the Preferential freight tariff policy & Multi modal logistics park.

**CO5:** analyse various schemes including Bharatmala& Sagarmala.

**Unit I:** (6 Hours)

Transportation Systems & Multi modal Transport –Concept of Multi modal & Intermodal Transport – introduction to Multi modal transport, the difference between Multi modal and Intermodal Transport-Type of transport Modes – detail and characteristics of air, road, rail, water, pipelines, package carriers-Need, Aim and Key Issues of Multi modal transport.

**Unit II:** (6 Hours)

How to organise Multi modal transport-Role of Containerisation in MMT- history, utility, types, ease of handling, cost saving-Types of Multi modal transport – combined container transport, rolling Road & forwarding of trailers, RORO & LASH transportation-National Multi modal Transport Committee (NMTC) and Logistics Policy of India – key features and importance.

**Unit III:** (6 Hours)

Multi modal Transportation Act & Procedures-MMTG Act of 1993-Custom procedures for Export & Import - Bill of Lading – Hague Rules, Visby Rules, Hamburg Rules, Voyage by Sea-INCOTERMS – meaning, explanation, list, and types.

**Unit IV:** (6 Hours)

MMT and Indian Railways-PFT Policy – maintenance of rolling stock, cargo handling, customs, etc-Warehousing Policy – stuffing, de-stuffing, stacking, use of MHE, etc-Layout and design of Multi modal Logistics parks.

**Unit V:****(6 Hours)**

Multi modal transport & Practice Today-India's growing conflict between Trade & transport – issues, policy, problems & pricing-Integrated Transport – Bharatmala, Sagarmala, IWT, DFC, the concept of ICP (International Check Posts-Scenario in India and neighbouring countries with a case study.

**Text Book:**

1. LSC course material.

**CO-PSO Mapping****24BML3202 – Multi-Modal and Intermodal Transportation**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	2	3	3	2	1	3	1	2	1
CO 2	2	3	2	2	2	1	2	1	2	1
CO 3	2	3	2	2	1	1	2	2	2	2
CO 4	2	3	3	2	1	3	3	2	2	3
CO 5	1	2	3	1	1	3	3	1	2	2
Average	2	2.6	2.6	2	1.7	1.8	2.6	1.7	2	1.8

Strong - 3    Medium - 2    Low - 1

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML3204	Maritime Environment	Discipline Specific Course	2	2

**Course Objective:** This course intends to familiarize the student with elements of Maritime Environment.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** define the legal economic system.

**CO2:** identify the contact law.

**CO3:** interpret the concept of bailment and guarantee.

**CO4:** analyze the customs concepts; central excise and GST.

**CO5:** justify the contemporary port act and multimodal carriages.

**Unit I:** (6 Hours)

Environmental, Legal and economic system: Marine and Coastal environment, Elements of conventions- IMO conventions - SOLAS – MARPOL-STCW- MMC- safety construction – fire protection & prevention – safety equipment – radio communication – safety of navigation – ISM code - IMDG code–prevention of operational pollution – oil cargo pollution – limitation of pollution following an incident- Port State Control - Director General of Shipping regulations and The Merchant Shipping Act and Amendments.

**Unit II:** (6 Hours)

Law of Contract Law of Contract: Nature of the contract - Offer and acceptance, consideration, capacity of contract, free consent, Performance and discharge of contract, remedies for breach of contract.

**Unit III:** (6 Hours)

Law of Agency and Bailment: Definition of agent and principal, Classification of agents – Relationship of Principal and Agent- Duties and liabilities of principal –Delegation of authority, relations of principal with third parties and Termination of agency. Bailment: Definition, rights and duties of bailor and bailee, termination of bailment. Contract of indemnity and guarantee- kinds of guarantee.

**Unit IV: (6 Hours)**

Customs: Central Excise – Customs Law – Basic concepts – types of customs duties, Anti-Dumping duty, safeguard duty- GST – Scope of GST – service provider and service receiver- GST in logistic sector – Regulatory Authorities in Maritime Sector in India.

**Unit V: (6 Hours)**

Introduction to Indian Ports Act: Major Ports Act- TAMP- State Maritime Boards – Functioning- Statutes relating to Multi Modal Carriages.

**Learning Resources:****Text Book:**

1. LSC Course Materials

**Reference Books:**

1. Kapoor N D. Elements of Mercantile Law. Sultan Chand Sons.

- \* Roll On Roll Off is abbreviated as RORO
- \* Lighter Aboard Ship is abbreviated as LASH
- \* Private Freight Terminal is abbreviated as PFT
- \* Material Handling Equipment is abbreviated as MHE

**CO-PSO Mapping****24BML3204 – Maritime Environment**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>CO 2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>CO 3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>
<b>CO 4</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>CO 5</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>Average</b>	<b>2</b>	<b>2.6</b>	<b>2.6</b>	<b>1.6</b>	<b>1.7</b>	<b>1.8</b>	<b>2.6</b>	<b>1.2</b>	<b>2</b>	<b>1.8</b>

**Strong - 3    Medium - 2    Low - 1**

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML3206	PPP In Port Sector	Discipline Specific Course	2	2

**Course Objective:** This course intends the students with advanced concepts in optimizing costs in liner transport.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** know the PPP concept in generic level.

**CO2:** construct the basic features of PPP.

**CO3:** ascertain the transparency and accountancy of PPP projects.

**CO4:** demonstrate the various stages of PPP Project.

**CO5:** examine the contemporary industry scenario.

**Unit I:** (6 Hours)

Public Private Partnership: Concept – Evolution- Characteristics - Benefits– Private sector Capital- Early PPP projects in Indian Port Sector.

**Unit II:** (6 Hours)

Public Private Partnership: Degrees of Private involvement – Basic features of various models of PPP including BOT – BOO- BOOT- DBF – DBFO - Concession Agreements- Sharing of Risks and Rewards.

**Unit III:** (6 Hours)

Aspects of PPP: Transparency - Accountability – Fairness – Efficiency – Advantages- Focus on outputs - How PPPs make projects affordable- Faster project delivery – Allocation of Risks to the party best able to manage the risk - Asset Utilization, Social and Economic benefits, sustainable development, and better compliance to regulation.

**Unit IV:** (6 Hours)

Stages of development of PPP projects: Initial feasibility, Procurement phase, Construction phase, Operation phase- Factors that can lead to success of PPP projects - Political will - Government commitment - PPP Champion - Clear output specification appropriate risk sharing – Performance management - Tariff in port services– Limitations in PPP.

**Unit V:** (6 Hours)

Elementary Case studies: of PPPs in Indian Port sector-NSICT - APMT

**Learning Resources:****Text Book:**

1. LSC Course Materials

**Reference Books:**

1. Joshi, R. N. (2013) Public Private Partnership in Infrastructure: Perspectives, Principles and Practices. Vision Books: New Delhi.

\* Safety of Life at Sea is abbreviated as SOLAS

\* Standards of Training, Certification and watchkeeping for Seafarers is abbreviated as STCW

\* Merchant Mariner Credentials is abbreviated as MMC

\* Build Own Operate Transfer is abbreviated as BOOT

\* Build Operate Transfer is abbreviated as BOT

**CO-PSO Mapping****24BML3206 - PPP in Port Sector**

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>CO 2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>CO 3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>CO 4</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>CO 5</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>
<b>Average</b>	<b>2</b>	<b>2.6</b>	<b>2.6</b>	<b>2</b>	<b>1.7</b>	<b>1.8</b>	<b>2.6</b>	<b>1.7</b>	<b>2</b>	<b>1.8</b>

**Strong - 3    Medium - 2    Low - 1**



**Department of Business Administration - BBA Maritime Logistics (UG)**  
**Value Added Courses**  
**w.e.f 2024-2025**

<b>Sem</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Hours/wk.</b>	<b>Credits</b>
2	24BML122V	Logistics Management System	2	2
3	24BML221V	Export & Import Management	2	2
5	24BML321V	Port & Shipping Management	2	2

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML122V	Logistics Management System	Value Added Course	2	2

**Course Objective:** This course intends to familiarize the student of other disciplines on overview of various modules in Logistics management System.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** know about the various types of logistics.

**CO2:** demonstrate the techniques of Inventory Management.

**CO3:** aware of core process of warehousing.

**CO4:** ascertain the Transportation Management Process.

**CO5:** analyze the process of Global Sourcing.

**Unit I:** (6 Hours)

Introduction to Logistics – Evolution of Logistics – Types of Logistics service providers.

**Unit II:** (6 Hours)

Customer Order Management & Inventory Management Module – Types of Inventory – Inventory Management Techniques.

**Unit III:** (6 Hours)

Warehouse Management Module – Core process of Warehousing – Warehouse operations.

**Unit IV:** (6 Hours)

Transportation Management Module – Transportation Management processes – ERP – WMS – TMS.

**Unit V:** (6 Hours)

Sourcing and Supplies Management Module – Outsourcing – BPO, MPS – Global Sourcing

### Learning Resources:

#### Text Book:

1. Martin Christopher, Logistics & Supply Chain Management
2. Sunil Chopra & Peter Meindal, Supply Chain Management

#### Reference Books:

1. Vinod V. Sople Logistics Management (2<sup>nd</sup> Edn) Pearson Lomoted, (2009)

**CO-PO Mapping**  
**24BML122V –Logistics Management System**

	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO 9</b>	<b>PO 10</b>
<b>CO 1</b>	2	-	2	-	2	-	2	2	2	2
<b>CO 2</b>	2	-	2	-	-	2	2	1	2	2
<b>CO 3</b>	2	2	2	-	-	2	-	2	2	2
<b>CO 4</b>	2	2	2	2	-	-	-	1	2	2
<b>CO 5</b>	2	2	2	-	-	-	-	1	2	2
<b>Average</b>	2	2	2	2	2	2	2	1	2	2

**Strong - 3    Medium - 2    Low - 1**

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML221V	Export & Import Management	Value Added Course	2	2

**Course Objective:** This course intends to familiarize the student of other disciplines on overview and current scenarios of Export & Import Management.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the elements of International Trade.

**CO2:** know about the process involved in Export Order.

**CO3:** acquaint on various stages of Import.

**CO4:** familiarize various functions of EXIM Bank.

**CO5:** analyze various Foreign Trade Policy.

**Unit I:** (6 Hours)

Elements of International Trade – Methods of entering into foreign market – Methods of exporting – Restricted & Prohibited items.

**Unit II:** (6 Hours)

Processing of Export Order – various stages of Exports.

**Unit III:** (6 Hours)

Processing of Import Order – various stages of Imports.

**Unit IV:** (6 Hours)

Banks & Payments: Functions of EXIM Banks – Instrument of Payment – Cargo Insurance.

**Unit V:** (6 Hours)

Foreign Trade Policy – Current business scenarios in EXIM Trade (Export Promotion Organisation).

### Learning Resources:

#### Text Book:

1. LSC Course Material.
2. Handbook of Import –Export Procedures- Ministry of commerce, Government of India, New Delhi.

#### Reference Book:

1. T.A.S. Balagopal. Export Management. Himalaya Publishing House.
2. Dr.Khushpat S, Jain. Export Procedures and Documentation. Himalaya Publishing

House.

**CO-PO Mapping**  
**24BML221V – Export & Import Management**

	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO 9</b>	<b>PO 10</b>
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>
<b>CO 2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>CO 3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>CO 4</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>
<b>CO 5</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>
<b>Average</b>	<b>3</b>	<b>1.4</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1.5</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2.4</b>

**Strong - 3    Medium - 2    Low - 1**

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24BML321V	Port & Shipping Management	Value Added Course	2	2

**Course Objective:** This course intends to familiarize the student of other disciplines on Port & Shipping Management concepts.

**Course Outcomes:** At the end of the course, students will be able to

**CO1:** state the maritime history of India.

**CO2:** classify the main functions of port and its administrative functions

**CO3:** aware of Sagarmala scheme and the concept of port modernization.

**CO4:** acquaint on the port performance and productivity.

**CO5:** justify the concepts of dry ports and connectivity.

**Unit I:** (6 Hours)

Maritime history of India – advantages of maritime logistics – major ports of India – Important non-major ports in India

**Unit II:** (6 Hours)

Ports: Importance – Main functions of ports – administrative function – port infrastructure.

**Unit III:** (6 Hours)

Port based development – Sagarmala – port modernization – port connectivity – port based industrialization

**Unit IV:** (6 Hours)

Port performance and productivity: performance parameter of port – operational indicators – Turn Round Time.

**Unit V:** (6 Hours)

Dry ports: Concept and its functions – Transportation connectivity – Roadways connectivity – Railways connectivity

**Learning Resources:**

**Text Book:**

Course material prepared by Logistics Sector Skill Council (LSC)

**CO-PO Mapping**  
**24BML321V – Port & Shipping Management**

	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO 9</b>	<b>PO 10</b>
<b>CO 1</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>
<b>CO 2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>
<b>CO 3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>2</b>
<b>CO 4</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>-</b>
<b>CO 5</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>
<b>Average</b>	<b>3</b>	<b>1.4</b>	<b>2</b>	<b>1.4</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1.2</b>	<b>2</b>

**Strong - 3    Medium - 2    Low - 1**