

### **BBA (Shipping & Logistics) – Core Business Subjects**

BSCB001	Introduction to the Shipping Industry	Credits 3
BSCB002	Geography of Sea Transport	Credits 3
BSCB003	Banking & Shipping Documentation	Credits 2
BSCB004	Logistics Management 1	Credits 2
BSCB005	Management of Dangerous & Hazardous Cargo	Credits 2
BSCB006	Maritime Law	Credits 3
BSCB007	Export Import Procedures	Credits 3
BSCB008	Economics of Shipping	Credits 3
BSCB009	Logistics Management 2	Credits 2
BSCB010	Supply Chain Management	Credits 2
BSCB011	Economics of Sea Transport	Credits 2
BSCB012	Chartering	Credits 2

Objective	To identify various dimensions and working of the shipping industry and analyse different agencies in the industry.
Content	<ul style="list-style-type: none"> <li>• <b>Nature and Working of the Shipping Industry (6 Hrs.)</b> History of Indian shipping, Current scenario</li> <li>• <b>Types of Ships_ (6 Hrs.)</b> Research vessels, Fisheries vessels, Service ships, Cable-laying ships, Merchant ships: Passenger ships, General cargo &amp; bulk ships, Types of cargo carried.</li> <li>• <b>Future Trends (5 Hrs.)</b> Digital sensing, Megaships, Greener shipping, Liquefied natural gas (LNG) as fuel, Solar and wind power for ships.</li> <li>• <b>Maritime Administration (5 Hrs.)</b> International Maritime Organization &amp; Director General of Shipping - Role and functions.</li> <li>• <b>Shipping Agencies and their Functions (5 Hrs.)</b> Freight forwarders, Custom house agents, Vessel agents/shipping agents.</li> <li>• <b>Role of Customs and Documentation (6 Hrs.)</b> Custom clearance, Import procedure, Valuation, Legal provision.</li> <li>• <b>Carriers, Ports and Third Parties in Liner and Bulk Shipping (6 Hrs.)</b> Ship inward / outward at harbour and clearing of consignments, Shipping terms and abbreviations used in industry.</li> <li>• <b>Cargo Handling and Management (6 Hrs.)</b> Cargo handling equipment used at ports, Use and effective management of equipment.</li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li>1. Alan E. Branch – “Elements of Shipping” –Routledge - Taylor &amp; Francis Group; 9<sup>th</sup> edition, 2014.</li> <li>2. Edward, S; Butterfield, CSJ; “Shipping Practice”- Sterling Book House, Mumbai, 11<sup>th</sup> edition, 2009.</li> <li>3. Alderton P.M.; “Reeds Sea Transport”; Adland Coles Nautical, London; 6<sup>th</sup> edition, 2011.</li> <li>4. Stopford, M; “Maritime Economics”; Routledge - Taylor &amp; Francis Group; 3<sup>rd</sup> edition, 2008.</li> </ol>

Objective	At the end of the course, students will be able to comprehend the nuances of the sea transport network in the world and analyse the impact of geographical features on shipping activities.
Content	<ul style="list-style-type: none"> <li>• <b>World Geography (7 Hrs.)</b> World continents, Countries, Seas, Oceans, Location of ports, Canals, Water ways and their main trade.</li> <li>• <b>Influence of Geographical Features: (10 Hrs.)</b> Physical geographical features, Climate, Wind, Tides and currents, Seasons of bad weather and their influence on shipping.</li> <li>• <b>Transport Network (10 Hrs.)</b> Modes of transport and their advantages and disadvantages, Sea transport-importance, Factors affecting, Major oceans routes and their influence on shipping.</li> <li>• <b>Practical Geography (9 Hrs.)</b> Time zones, International date line, Concept of day light saving time, Load line zones and their influence on shipping.</li> <li>• <b>World Trade (9 Hrs.)</b> Factors affecting, Patterns of trade and the trade blocks like European Union, European Free Trade Association, North American Free Trade Agreement, Oil Producing and Exporting Countries, Association of South East Asian Nations, South Asian Association of Regional Countries, World Trade Organization.</li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li>1. Shinde, P; "Geography of Resources"; Sheth Publications; 2008 edition.</li> <li>2. Balachandran, S &amp; Gupta, S.P.; "Commercial Geography"; Insurance Institute of India: Mumbai, Latest edition.</li> <li>3. Gupte, A.D. &amp; Kapoor, A.N.; "Principles of Physical Geography: A Text book of Physiography"; S.Chand; 12<sup>th</sup> edition 2009.</li> <li>4. Negi, B.S.; "Physical Geography";KedarNath Ram Nath, Meerut; Latest Edition.</li> <li>5. Dr.Tikka, R.N.; "Physical Geography"; SJ Publications, Meerut, 2006 edition.</li> <li>6. Negi, B.S.; "Geography of Resources"; KedarNath Ram Nath, Meerut; 2010 edition.</li> <li>7. Monkhouse; "Principles of Physical Geography"; Hodder Education; 1970 edition.</li> <li>8. Lake, P; "Physical Geography"; Cambridge, University Press; 2014 edition.</li> <li>9. Heintzelmen&amp;Highsmith, R.M.; "World Regional Geography";Prentice-Hall; 2011 edition.</li> </ol>

Objective	At the end of the course, students will gain competence in managing documentation work related to shipping activities.
Content	<ul style="list-style-type: none"> <li>• <b>Letters of Credit (L/C) (6 Hrs.)</b> Types of L/C's: Meaning, Importance in international trade, Types of L/C's, Documents in a Letter of Credit.</li> <li>• <b>Bills of Lading (B/L) (6 Hrs.)</b> Liner B/L, Various types of B/L, Functions of B/L, B/L's issued under charter party (C/P), Functions of B/L in a C/P.</li> <li>• <b>Shipping Documents (6 Hrs.)</b> Tally Sheet, Manifest, Mate's receipt, Statement of facts, Time-sheets, Notice of readiness.</li> <li>• <b>Documents for an Export Oriented Units (6 Hrs.)</b> Letter of Permission (LOP), Green card with LOP, Bonded warehouse license copy and other related documents.</li> <li>• <b>Export Documentation Checklist (3 Hrs.)</b> Invoice, Packing List, Annexure, Statutory Declaration Form, Importer Exporter Code, Authorized Dealer Code.</li> <li>• <b>Dangerous Cargo Declaration (3 Hrs.)</b> Definition and meaning of dangerous goods declaration, Types of Documents.</li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Readings	<ol style="list-style-type: none"> <li>1. Indian Institute of Banking &amp; Finance; "Principles &amp; Practices of Banking"; Macmillan, New Delhi; 3<sup>rd</sup> edition 2016.</li> <li>2. Branch, A.E.; "Shipping &amp; Airfreight Documentation for Importers &amp; Exporters"; Routledge; 1998 edition.</li> <li>3. Keshkamat V.V.; "Documentary Letter of Credits Uniform Customs &amp; Practices"; Vivek Publications; Latest edition.</li> <li>4. Bills of Lading &amp; Bankers Documentary Credits; 2014 edition.</li> <li>5. Beedu, R.R.; "Nabhi's Guide to Documentary Letter of Credit and UCP 600"; 2009 edition.</li> <li>6. Bose, R.; "All about UCP 600"; Macmillan – Delhi; 2008 edition.</li> <li>7. Astle, W.E.; "Bills of Lading Law"; Fairplay Publications; 1990 edition.</li> </ol>

Objective	At the end of the course the students will get sensitized to the basics of logistics management, and understand the role of logistics providers.
Content	<ul style="list-style-type: none"> <li>• <b>Overview of Logistics Management (8 Hrs.)</b> Nature and concepts, Evolution of logistics and supply chain management, Components of logistics, Integrated logistics system.</li> <li>• <b>Transportation (5 Hrs.)</b> Functions of transportation, Elements of transportation cost, Modes of transportation, Multimodal transportation.</li> <li>• <b>Distribution (6 Hrs.)</b> Physical distribution, Logistics outsourcing, Third party logistics (3PL), Fourth party logistics (4PL).</li> <li>• <b>Reverse Logistics (5 Hrs.)</b> Challenges of products return, System design for reverse logistics, Reverse logistics a competitive tool.</li> <li>• <b>Government Policies &amp; Regulations (6 Hrs.)</b> Government policies and regulations related to logistics, Key enablers and growth drivers of the Indian logistics industry.</li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li>1. Bhattacharya, S.K.; "Logistics Management – Definitions, Dimensions, and Functional Applications"; S.Chand; 2<sup>nd</sup> edition 2013.</li> <li>2. Shah, J; "Supply Chain Management; Text &amp; Cases"; Pearson Education; 2009 edition.</li> <li>3. Farahani, R.Z.; Rezapour, S.; Karday, L.; "Logistics Operations &amp; Management: Concepts &amp; Models"; Elsevier; 2011 edition.</li> <li>4. Lun, Y.H.V; Lai, H.-H.; Cheng, T.C.E.; "Shipping and Logistics Management"; Springer; 2010 edition.</li> </ol>

Objective	At the end of the course, students will be able to comprehend the classification, transportation and management of dangerous and hazardous cargo.
Content	<ul style="list-style-type: none"> <li>• <b>Dangerous Goods</b> (5 Hrs.) The classification of dangerous goods, Dangerous goods safety advisers' qualifications and training.</li> <li>• <b>International Maritime Dangerous Goods (IMDG) Code</b> (5 Hrs.) Usage of the IMDG code in containerization &amp; MTO trade.</li> <li>• <b>Transportation of Dangerous Goods</b> (8 Hrs.) Regulations for transporting dangerous goods by air, sea, road and rail transport, Documentation when moving dangerous goods, Marking and labeling of dangerous goods, Suppliers' responsibilities.</li> <li>• <b>Packaging of Dangerous Goods for Transport</b> (4 Hrs.) Material classification, Packing groups, Packaging regulations.</li> <li>• <b>Enforcement of Dangerous Goods Regulations</b> (4 Hrs.) Compliance and training.</li> <li>• <b>Radiation Screening at Ports and Airports</b> (4 Hrs.) Radiation equipment, Sources of radiation.</li> </ul>
Pedagogy	Lectures/tutorials/ laboratory work /field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li>1. Alan E. Branch – “Elements of Shipping” –Routledge - Taylor &amp; Francis Group; 9<sup>th</sup> edition, 2014.</li> <li>2. Edward, S; Butterfield, CSJ; “Shipping Practice”- Sterling Book House, Mumbai, 11<sup>th</sup> edition, 2009.</li> <li>3. Alderton P.M.; “Reeds Sea Transport”; Adland Coles Nautical, London; 6<sup>th</sup> edition, 2011.</li> <li>4. Code of Safe Practice for Cargo Storage and Securing – IMO, 1992 Edition.</li> <li>5. Code of Safety for Nuclear Merchant Ships – IMO, 1995 Edition.</li> </ol>

Objective	At the end of the course, students will gain knowledge on fundamentals of various shipping related laws and international conventions relating to containerization.
Content	<ul style="list-style-type: none"> <li>• <b>Maritime Lien (2Hrs.)</b> Different types of maritime lien, Subjects of maritime lien, Procedure for arrest, Order of priorities.</li> <li>• <b>Health &amp; Health Regulations (2Hrs.)</b> Responsibility of master, Indian port health rules.</li> <li>• <b>Liabilities and Responsibilities (9Hrs.)</b> Deviation &amp; freight, Consequences of deviation, Reasonable deviation, Deviation &amp; prior damage to cargo, Liability to provide a seaworthy vessel, Definition of seaworthiness, Meaning of un-seaworthiness, Burden of proof, Limits on liability, Notice on loss, Measurement of damages, Non-contractual claims, Himalaya clause, Limitation of action, Jurisdiction and arbitration.</li> <li>• <b>Introduction to Various Acts (13 Hrs.)</b> Merchant Shipping Act, 1958 (meaning, scope and applicability), Admiralty jurisdiction (meaning , origin, development in India), Customs Act, 1962 (procedure for loading/unloading ships, confiscation of cargo, responsibility of proper officer), Multimodal Transportation of Goods Act, 1993 (meaning, scope and applicability, Legal aspects of charter parties.</li> <li>• <b>Introduction to Various Conventions (7 Hrs.)</b> Facilitation convention - Hague rules, Visby rules &amp; Hamburg rules, The Athens convention, 1974, Civil liability convention (Oil Pollution), Fund convention.</li> <li>• <b>Rules &amp; Legal Provisions for Shipping Operations (12 Hrs.)</b> Principles of salvage, Crew, Passengers, Real danger, Salvage agreement, Lloyds pen form, Duties of salver, Owner, Master, Towage, Special towage contracts, Cargo claims, Collision regulations, Purpose of collision regulations, Alternative danger, Damages, Tort, Types of torts, Defences against tortuous liability, Limitation of action.</li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li>1. "The Merchant Shipping Act, 1958"; Professional Book Publishers, Delhi; 2017 edition.</li> <li>2. Chandiramani, N.; "Carriage of Goods by Sea Multimodal Transport"; Avinash Publications; 1997 edition.</li> <li>3. "Maritime Law of India –In International Context "; Bhandarkar Publications, Bombay; Latest edition.</li> </ol>

	<p>4. Bundock, M.; "Shipping Law Handbook"; Routledge; 2011 edition.</p> <p>5. Chorley &amp; Giles; "Shipping Law"; Pearson Education Limited; 8th edition, 1987.</p>
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BSCB007

Export Import Procedures

Credits 3

Objective	At the end of the course students will be sensitized to export-import procedures and acquainted with governmental policies for smooth functioning of export-import procedures.
Content	<ul style="list-style-type: none"> <li> <p>• <b>Introduction to Export-Import (12 Hrs.)</b>            Definition, Classification, Export marketing, Registration, Formalities, Licensing, Selection, Identification of markets, Methods of exporting, Pricing quotations, Payment terms, LC, Schemes.</p> </li> <li> <p>• <b>Export-Import Documentation (12 Hrs.)</b>            Documentation system, Commercial invoice, Mates receipt, Bill of lading, GR form, ISO 9000, BIS 14000, Types of marine insurance policies, Bill of entry, Transport documents, Certificate of inspection, Certificate of measurement, Freight declaration.</p> </li> <li> <p>• <b>Export-Import Procedure (12 Hrs.)</b>            Steps, Contract, Forward cover, Finance, Institutional framework, Excise clearance, Pre-shipment inspection, Marine insurance, Role of clearing and forwarding agents, EDI system, Negotiations, Realization. Pre-import procedure, Legalities, Customs formalities, Warehousing, Exchange control, Retirement of export documents.</p> </li> <li> <p>• <b>Policies of Export-Import (9 Hrs.)</b>            Foreign trade policy, Export assistance and incentives, Export promotion organizations.</p> </li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li>1. Kale, N.G., Ahmed, M.; "EXIM Procedures &amp; Documentation"; Vipul Prakashan, Mumbai; 2009 edition.</li> <li>2. Dr.Chandisamani, N.M.; "Guide to Customs Act, 1962"; Latest edition.</li> <li>3. Paul, A. &amp; Aserkar, R.; "Export-Import Management"; Oxford University Press; Latest edition.</li> <li>4. Laxman, R; "An Introduction to Foreign Exchange and Financial Risk Management"; SHROFF Publication – Mumbai; 2009 edition.</li> <li>5. Dun &amp; Bradstreet; "Foreign Exchange Markets"; Tata McgrawHill Pub. Co. Ltd., New Delhi; Latest edition.</li> </ol>



Objective	At the end of the course, students will have competency in analysing various factors that impact costs in shipping industry.
Content	<ul style="list-style-type: none"> <li data-bbox="496 427 1342 600"> <p>• <b>Economy, Trade &amp; Shipping (3 Hrs.)</b> An introduction, Shipping's 'industrial revolution', The global economic Role of maritime shipping, Shipping, Transportation and economic development.</p> </li> <li data-bbox="496 607 1342 779"> <p>• <b>Strategic Planning &amp; Cost Control-An Introduction (3 Hrs.)</b> An introduction, Concepts and approaches in strategic planning, Role of budgeting, Costs of shipping operations, Acquisition and capital costs.</p> </li> <li data-bbox="496 786 1342 1032"> <p>• <b>Rate of Exchange (8 Hrs.)</b> Impact of changes in rates, Buying &amp; selling rate, Maxim-While quoting rates, Typical rate sheet, Forward rates, Dealing room, Foreign Exchange Management Act (FEMA) relating to shipping companies (Aim of exchange control), Environmental Crisis Management (ECM) relating to shipping companies.</p> </li> <li data-bbox="496 1039 1342 1249"> <p>• <b>Shipping Finances (10 Hrs.)</b> Types of finance (Equity, Debt, Mezzanine &amp; Leasing, Uniform Customs and Practice for Documentary Credits, Leading financial Institutions for Shipping Industry), Shipping Finance, Moving from west to east.</p> </li> <li data-bbox="496 1256 1342 1532"> <p>• <b>Acquisition and Disposal of Ships (12 Hrs.)</b> Sale and purchase of ships, Process, Role of brokers, Inspection and valuation, Memorandum of Agreement, Role of brokers, Acquisition of ships from abroad, Ship acquisitions procedure, Purchase requirements, Purchase decisions, Registration and other formalities, Economics of scrapping &amp; Laying up ships.</p> </li> <li data-bbox="496 1538 1342 1697"> <p>• <b>Shipping Accounts (9 Hrs.)</b> Preparation of voyage accounts, Disbursements, Various heads under disbursement, Time charter, Final accounts.</p> </li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li data-bbox="496 1895 1398 1962">1. Alan E. Branch – "Elements of Shipping" –Routledge - Taylor &amp; Francis Group; 9<sup>th</sup> edition, 2014.</li> <li data-bbox="496 1968 1398 2027">2. Edward, S; Butterfield, CSJ; "Shipping Practice"- Sterling Book House, Mumbai, 11<sup>th</sup> edition, 2009.</li> </ol>

	<p>3. Alderton P.M.; “Reeds Sea Transport”; Adland Coles Nautical, London; 6th edition, 2011.</p> <p>4. Stopford, M; “Maritime Economics”; Routledge - Taylor &amp; Francis Group; 3<sup>rd</sup> edition, 2008.</p> <p>5. Packard, W.V.; “Sale &amp; Purchase”; Fairplay Publications; 1988 Edition.</p> <p>6. Keshkamat, V.V.; “Foreign Exchange - An Introduction”; Vivek Publications, Bombay; Latest edition.</p>
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BSCB009

Logistics Management 2

Credits 2

Objective	At the end of the course the students will understand the concepts and functions of logistics management.
Content	<ul style="list-style-type: none"> <li>• <b>Stores Organisation</b> (7 Hrs.) Types of stores, Stores location, Building and layout, Storage facility, Stockyard, Safety and security.</li> <li>• <b>Material Identification</b> (7 Hrs.) Material identification system, Need of coding, Item codification, Classification, Monitoring the codification system.</li> <li>• <b>Material Handling</b> (5 Hrs.) Material handling systems, Guidelines and principles of material handling.</li> <li>• <b>Information Systems</b> (5 Hrs.) Use of logistics information systems (LIS) and IT-technology for logistics, Planning and co-ordination of logistics information systems.</li> <li>• <b>Customer Service</b> (6 Hrs.) Measure of effectiveness of logistics system, Handling returns, Customer perception of service quality.</li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li>1. Bhattacharya, S.K.; “Logistics Management – Definitions, Dimensions, and Functional Applications”; S. Chand; 2<sup>nd</sup> edition 2013.</li> <li>2. Shah, J; Supply Chain Management; Text &amp; Cases; Pearson Education; 2<sup>nd</sup> edition 2016.</li> <li>3. Farahani, R.Z.; Rezapour, S.; Karday, L.; “Logistics Operations &amp; Management: Concepts &amp; Models”; Elsevier; 1<sup>st</sup> edition 2011.</li> <li>4. Lun, Y.H.V; Lai, H.-H.; Cheng, T.C.E.; “Shipping and Logistics Management”; Springer; 2010 edition.</li> </ol>

Objective	At the end of the course, the students will have the ability to identify and manage supply chain processes.
Content	<ul style="list-style-type: none"> <li data-bbox="443 376 1401 510">• <b>Concept of Supply Chain (4 Hrs.)</b> Integrated supply chain, Growth of supply chain, Strategic decision in supply chain.</li> <li data-bbox="443 521 1401 723">• <b>The Value of Information (7 Hrs.)</b> Information technology, Information functionality in supply chain, Principles of supply chain information, Information system activities, The bullwhip effect, Effective forecasts, Lead-time reduction, Integrating the supply chain.</li> <li data-bbox="443 734 1401 880">• <b>Distribution Strategies (6 Hrs.)</b> Centralized vs. decentralized control, Strategies, Central vs. local facilities, Push vs. pull systems.</li> <li data-bbox="443 891 1401 1048">• <b>Purchasing Basics (4 Hrs.)</b> Purchasing in supply chain management, Purchasing organization, The purchasing/procurement cycle, Order processing cycle, Legal aspects of purchasing.</li> <li data-bbox="443 1059 1401 1193">• <b>Issues in Supply Chain Management (4 Hrs.)</b> Issues, Facility location decisions, Performance metrics along supply chain, Service response logistics, Customer relationship management.</li> <li data-bbox="443 1205 1401 1350">• <b>Future of Supply Chain Management (5 Hrs.)</b> Supply chain process integration, Greening of supply chains, Increasing supply chain responsiveness, Reducing supply chain costs.</li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li data-bbox="459 1529 1401 1597">1. Bhattacharya, S.K.; “Logistics Management – Definitions, Dimensions, and Functional Applications”; S. Chand; 2<sup>nd</sup> edition 2013.</li> <li data-bbox="459 1608 1401 1675">2. Shah, J; Supply Chain Management; Text &amp; Cases; Pearson Education; 2<sup>nd</sup> edition 2016.</li> <li data-bbox="459 1686 1401 1753">3. Jespersen, B.D.; Skjott-Larsen, T.; “Supply Chain Management: In Theory &amp; Practice”; Copenhagen Business School Press; 2005 edition.</li> <li data-bbox="459 1765 1401 1805">4. Fredendall, L.D. &amp; Hill, E.; “Basics of Supply Chain Management”; St. Lucie Press; 2000 edition.</li> </ol>

Objective	At the end of the course, students will be able to comprehend the importance and need of various components of sea transport.
Content	<ul style="list-style-type: none"> <li>• <b>Sea Transport Services Market</b> (8 Hrs.) Determinants of demand and supply, Factors affecting demand and supply, Economics of manning, Economies of scale.</li> <li>• <b>International Trade</b> (6 Hrs.) Fundamental topics in the shipping business, Sea transport system, International trade patterns, International maritime passages, International Commercial Terms (INCOTERMS), Rules for any mode of transport, Rules for sea and inland waterway transport.</li> <li>• <b>Shipping Policy</b> (3 Hrs.) Evolution of India's national shipping policy, Cabotage law.</li> <li>• <b>Fuel Economy &amp; Bunker Management</b> (5 Hrs.) Factors affecting fuel quality, Legal aspects of bunkering, Design of new ships for fuel efficiency, Bunker adjustment factors and freight rates, Development of a marine fuel specification.</li> <li>• <b>Stowage</b> (3 Hrs.) Factors affecting stowage, Freight &amp; Freight Units, Packaging in sea transport.</li> <li>• <b>Shipping Cost and Revenue</b> (5 Hrs.) Cost in economics, Cost management in shipping, Cost of running ships, Revenue in Shipping.</li> </ul>
Pedagogy	Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li>1. Alan E. Branch – “Elements of Shipping” –Routledge - Taylor &amp; Francis Group; 9<sup>th</sup> edition, 2014.</li> <li>2. Edward, S; Butterfield, CSJ; “Shipping Practice”- Sterling Book House, Mumbai, 11<sup>th</sup> edition, 2009.</li> <li>3. Alderton P.M.; “Reeds Sea Transport”; Adland Coles Nautical, London; 6<sup>th</sup> edition, 2011..</li> <li>4. Stopford, M; “Maritime Economics”; Routledge - Taylor &amp; Francis Group; 2008 Edition.</li> <li>5. Branch, A.E.; “Elements of Port Operations &amp; Management”; Springer; 2011 edition.</li> <li>6. “The Maritime Law of India” (2000); Bhandarkar Publications, Mumbai; 2008 edition.</li> <li>7. Ewart, W.D.; “Bunkers – A guide for ship operators”; 2011 edition.</li> </ol>

Objective	At the end of the course the students will comprehend the various concept and practices of chartering.
Content	<ul style="list-style-type: none"> <li data-bbox="443 378 1353 450">• <b>Chartering Concepts (9 Hrs.)</b> Chartering terms &amp; abbreviations, Introduction to contract of affreightment, Charter party meaning, Types of charter parties, Demise or bareboat charter, Non-demise charter (time &amp; voyage charter), Chartering procedure &amp; ethics, The dry cargo charter market, Dry cargo fixtures , Factors influencing freight markets, Dry cargo freight market, Decoding Chartering Language through Various Fixtures .</li> <li data-bbox="443 674 1353 813">• <b>Functions of Operations Department (3 Hrs.)</b> Standard charter party forms: GENCON 91 CP, NYPE 93 C/P, Inter-club agreement.</li> <li data-bbox="443 824 1353 987">• <b>Lay Time (4 Hrs.)</b> Calculation of lay time, Meaning of certain Lay time terms and their implications for various types of transport such as Bulk carrier, Container, Tankers.</li> <li data-bbox="443 999 1353 1193">• <b>Freight Market (6 Hrs.)</b> The market structure &amp; factors affecting freight markets for various types of transport, Baltic Freight Index (BFI), Importance &amp; workings of BFI, Do's and don'ts for a chartering manager.</li> <li data-bbox="443 1205 1353 1435">• <b>Voyage Estimating (8 Hrs.)</b> Calculation of voyage estimate to check the cost of working on a given route for various types of transport such as Bulk carrier, Container, Tankers, Tanker time charters, Shelltime-4, 1984 and Tanker voyage charters, Asbatankvoy, Study of the various standard forms</li> </ul>
Pedagogy	Lectures/tutorials /field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li data-bbox="459 1664 1394 1727">1. Alan E. Branch – “Elements of Shipping” –Routledge - Taylor &amp; Francis Group; 9<sup>th</sup> edition, 2014.</li> <li data-bbox="459 1738 1394 1800">2. Edward, S; Butterfield, CSJ; “Shipping Practice”- Sterling Book House, Mumbai, 11<sup>th</sup> edition, 2009.</li> <li data-bbox="459 1812 1394 1874">3. Alderton P.M.; “Reeds Sea Transport”; Adland Coles Nautical, London; 6<sup>th</sup> edition, 2011.</li> <li data-bbox="459 1886 1394 1917">4. Weale, J; “Tramp Ship Arithmetic”; Fairplay Publications; Latest Edition.</li> <li data-bbox="459 1928 1394 1960">5. Packard W.V.; “Voyage Estimating”; Fairplay Publications; 1978 Edition.</li> <li data-bbox="459 1971 1394 1975">6. Packard, W.V.; “Laytime Calculating”; Fairplay Publications; 1979 Edition.</li> </ol>

**BBA (Shipping & Logistics) – Elective Subjects**

BSOS001	Warehouse Management	Credits 2
BSOS002	Inventory Management	Credits 2

Objective	At the end of the course, students will develop the ability to efficiently manage warehouse operations.
Content	<ul style="list-style-type: none"> <li data-bbox="443 376 1394 539">• <b>Warehouse Functions (8 Hrs.)</b> Logistics support for inward/ outward transportation, Loading/ unloading, Inspection, Receipt and issue of materials, Controlling movement of materials.</li> <li data-bbox="443 551 1394 831">• <b>Warehouse Types (7 Hrs.)</b> Own warehouses, Hired warehouses, Private warehouses, Public warehouses, Government warehouses, Co-operative warehouses, Distribution warehouses, Fulfilment /consolidation warehouses, Bonded warehouses, Export and import warehouses, Automated warehouses, Climate-controlled Warehouse, Cold storage, Agricultural warehouses, Merits and demerits.</li> <li data-bbox="443 842 1394 947">• <b>Warehouse Location and Acquisition (2 Hrs.)</b> Warehouse design and layout, Stores location systems.</li> <li data-bbox="443 958 1394 1160">• <b>Internal Operations (9 Hrs.)</b> Logistics in the warehouse, Localization of materials in a warehouse, Identification and classification of materials and products in the warehouse, Problems and issues in shipment processes. Material handling equipment and automation of material handling equipment.</li> <li data-bbox="443 1171 1394 1375">• <b>IT for Warehouse Management (WM) (4 Hrs.)</b> Warehouse documentation, Information flow in the warehouse, Enterprise Resource Planning, Warehouse Management Systems, Bar code, Radio Frequency Identification.</li> </ul>
Pedagogy	Lectures/tutorials /field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li data-bbox="427 1529 1394 1592">1. Saxena, J.P.; "Warehouse Management and Inventory Control"; Vikas Publishing House Pvt. Ltd.; 2015 edition.</li> <li data-bbox="427 1603 1394 1709">2. Richards, G.; "Warehouse Management: A Complete Guide to Improving Efficiency and Minimizing Costs in the Modern Warehouse "; Kogan Page; 2017 edition.</li> <li data-bbox="427 1720 1394 1783">3. Emmett, S.; "Excellence in Warehouse Management: How to Minimise Costs and Maximise Value"; Wiley Publications; 1<sup>st</sup> edition, 2005.</li> <li data-bbox="427 1794 1394 1872">4. Schmidt, T &amp; Hompel, M.;"Warehouse Management: Automation and Organisation of Warehouse and Order Picking Systems"; Springer; 2010 edition.</li> </ol>

Objective	At the end of the course, students will develop ability to analyse the processes and techniques in managing inventory.
Content	<ul style="list-style-type: none"> <li>• <b>Introduction to Inventory Management</b> (4 Hrs.) Definition of inventory, Importance of inventory management, Maintaining inventory levels, Factors influencing inventory.</li> <li>• <b>Types of Inventory</b> (4 Hrs.) Raw Materials, Consumables, Work-in-process, Finished goods, Spare parts.</li> <li>• <b>Forecasting Techniques</b> (4 Hrs.) Need for forecast, Types of forecasts, Dependent demands, Independent demands, Semi-dependent demands, Lead time management, Demand forecasting techniques.</li> <li>• <b>Inventory Control &amp; Service Level</b> (4 Hrs.) Objectives of inventory control, Concept of selective inventory control, Inventory categorisation and analysis.</li> <li>• <b>Replenishment of Inventory</b> (3 Hrs.) Concept of economic order quantity (EOQ), Functions of safety stock, Safety stock v/s service level.</li> <li>• <b>Inventory Cost and Accounting</b> (7 Hrs.) Purchase/acquisition cost, Inventory carrying cost, Under stocking cost (KU), Overstocking cost, Stock out cost, Total acquisition cost, Accounting of raw materials, Work-in-process and finished goods stock, Stock valuation methods, Accounting for loss.</li> <li>• <b>Codification and Standardization</b> (4 Hrs.) Characteristics of codes, Types of codification systems, Analysing standardization system.</li> </ul>
Pedagogy	Lectures/tutorials /field work/outreach activities/ project work/ vocational training/ viva /seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.
Suggested Reading	<ol style="list-style-type: none"> <li>1. David J. Piasecki; "Inventory Accuracy: People, Processes, &amp; Technology"; Ops. Pub.; 2003 edition.</li> <li>2. J P Saxena, "Warehouse Management and Inventory Control"; Vikas Publishing; 2015 Edition.</li> <li>3. Max Muller; "Essentials of Inventory Management"; AMACOM; 2011 edition.</li> <li>4. Steven M. Bragg; "Inventory Best Practices"; Wiley; 2011 edition.</li> </ol>