## SCHEME OF EXAMINATION

<table>
<thead>
<tr>
<th>S. No.</th>
<th>SUBJECT</th>
<th>Ind. Hrs./Week</th>
<th>Examination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>CIU</td>
</tr>
<tr>
<td>1</td>
<td>Evolution of Shipping Industry</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Shipping Finance &amp; Insurance</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Management Information System</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Chartering</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Dry Cargo Chartering</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>Port Agency</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>Ship Management Practice</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>Shipping Laws</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>Management of Multimodal Transport</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>Industry Internship / Major Project*</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

*For Project Report 80% Marks & Viva-Voce 20% Marks
1- EVOLUTION OF SHIPPING INDUSTRY

OBJECTIVE:
The students will be introduced to the origin of shipping, its evolution and modern outlook

UNIT - I
Introduction to Shipping - Origin of Transport System - Various inventions and inventors in Transport Systems - Various means of Transport - Branches of Shipping - Citations from the Vedas about shipping - Citations from the Book of Genesis about Shipping - India's role in shipping development.

UNIT - II

UNIT - III

UNIT - IV
Ships with Sails - Ships with Oars and Paddles - Various types of ships - Ships Positions - Main Branches in Shipping - Various roles in Shipping - Cargo stowage space in ships according to the nature of cargo - World tonnage - 20th century development - Multimodal Transport System

UNIT - V

Reference
1. Oxford Encyclopedia of Maritime History
2) Indian Maritime History
3) The Spanish Armada by Robert Appleton
2–SHIPPING FINANCE & INSURANCE

OBJECTIVE
To help students understand shipping investment and financial risks involved, ship registration and tax implications, process of sale and purchase of ships, marine insurance, third party liability and claims processing

Unit I – Financing of Ships & Risks
Financing of Shipping Business – Equity and debt issues – The basic secured loan & how it differs when the asset is a ship – The ship mortgage – Financing of new building ships – Appraising risk on shipping investment

Unit II – Ship Registration & Tax
Ship registration, Tax issues & depreciation policies – swaps and options in Ship financing – Sale & lease back – Derivatives in shipping finance – Analysis of the share price movements of a public limited company

Unit III – Sale & Purchase of Ships
Sales and purchase of secondhand ships – Financing of secondhand ships – Analysis of standard Ship Sale and Purchase contracts – Role of ship sale brokers – Demolition market dynamics

UNIT IV – Marine Insurance
General principles of Marine insurance – Marine insurance market structure – Effecting marine insurance cover – Types of marine insurance covers – Institute clauses – war & strike clauses – Marine insurance claims process – Marine Insurance claims during general average situations

UNIT V – Third Party Liability
Principles of Protection & Indemnity (P&I) insurance – Types of P&I covers available & their modes of operation – Third party liability claims processing – Insurance cover for Pollution claims – Insurance cover for professional indemnity

References:
Shipping Finance – Graham Burns & Stephenson Harwood (3rd Edn, Euromoney July 2006)
Ship Finance: Credit expansion the Boom Bust Cycle – Peter Stokes (2nd Edn, LLP Professional Jan 1997)
3 - MANAGEMENT INFORMATION SYSTEM

OBJECTIVE:
To help students understand how MIS is developed and implemented for various levels in an organization, the phases involved in the development of a system, the factors determining their success and the relationship of MIS with various functional areas of organization

UNIT – I:

UNIT – II:

UNIT – III:

UNIT – IV:
Managing Information Technology: Managing Information Resources and technologies - IS architecture and management - Centralised, Decentralised and Distributed - EDI, Supply chain management & Global Information technology Management.

UNIT - V:
Security and Ethical Challenges: IS controls - facility control and procedural control - Risks to online operations - Denial of service, spoofing - Ethics for IS professional - Societal challenges of Information technology.

Reference:
4- CHARTERING

OBJECTIVE:
This chapter will provide the students with knowledge about chartering practices prevailing in the industry and also provide insight into contracts, disputes and resolution

Unit - I
Introduction- Types Of Ships For The Trade; Major Cargoes; Producing Areas And Trades, Their Movement; Methods Of Cargo Handling For Dry Cargo And Tankers. Chartering Market- Different Players, Sale Agreements, FOB,CIF; Factors Influencing Supply And Demand; Role Of Brokers; Baltic Exchange, Various Freight Indices And BIFFEX.

Unit - II
Chartering Contracts – Voyage, time, bareboat-cum-demise charters; contract of affreightment - different standard charter party forms for dry cargo and tankers – their salient features - Abbreviations and other chartering terms and definitions.

Unit – III
Chartering market practice – offer, counter offer, negotiations, and finalization of fixture - Do’s and don’ts of a chartering manager

Unit IV
Tanker Chartering- Crude oil and various types of products movement; oil terminals - Oil transportation, India scene - Technical aspects – cleaning of tanks; heating; inert gas system; crude oil washing; clean ballast tanks; segregated ballast tanks; segregated ballast tanks; double hull, Chartering markets oil majors and traders; OPEC, INTERANKO OCIMF.

Unit - V
Charterparty disputes: Voyage Charters – arrived ship; laytime calculations; deductions from freight; excepted periods. Time Charters – off – hire periods; final voyage; payment of hire; bunkers performance clauses. Frustration of charter party - Oil transportation – losses and claims - Calculation of demurrage - Worldscale; voyage estimates and calculations – AFRA - Post – fixture

REFERENCES
1. Carting practice (Analysis of C/Ps) – J. Bes, 1st Ed.1960 (Barker)
4. Shipping & Charting Practice – Gorton, Ihre, etc. 4th Ed.1995 (LLP)
5 - DRY CARGO CHARTERING

OBJECTIVE:
This course offers good understanding of Dry Cargo Chartering and associated subjects of markets, commercial requirements, documentations & trade travel estimates.

Unit-1

UNIT-2

UNIT-3

UNIT 4

UNIT-5

Text Books:
1. Dry cargo chartering by institute of charted ship brokers.
2. Witherby seamanship international limited - second edition

Reference Books :
1. Lambert M surhone , Miriam T.Timpledon – Port agency /charterering.
6. PORT AGENCY

OBJECTIVE:
This course is intended to familiarize the students with basic details associated with ship like safety certificate, flag etc and the key role played by the agents as intermediaries in streamlining the shipping operations.

UNIT-1
Ship Introduction- Sizes-Bulk Carrier-Tweendeckers - Tankers- Chemical &Parcel Tankers-Gas Carriers-Specialized Dry Cargo Ships Registration &Classification Flags of Convenience-Offshore Flags-Port State Control-Classification

UNIT-2

UNIT-3

UNIT-4

UNIT-5
Port Agents and Law - Introduction-Practical Duties and Obligations-Noting Protest-P&I Associations-General Average-Sensible Precautions taken by Prudent Port Agent, Relationships with Principals - Introduction-Disbursement Accounting-Division of Costs-Final Disbursement Invoice-Operational Accounting-Office Organization

Text Books:
1. Introduction to shipping , institute of charted ship brokers.
2. Witherby seamanship international limited - second edition

Reference Books : 
1. Lambert M suhrone , Miriam T.Timpledon – Port agency
7. **SHIP MANAGEMENT PRACTICE**

**OBJECTIVE**
To help students understand organization chart of a shipping company, functioning of various departments’ viz. commercial, technical, crewing, and ship management

Unit I – Shipping Company Structure
Organization of a shipping company – Roles of Commercial, Technical & Crewing departments – In house vs outsourcing of Ship Management functions – Ship Registries, National vs Open Registries – Ship Classification societies

Unit II – Commercial Operations

Unit III – Technical Management

Unit IV – Crew Management
Crew Management – Manning regulations, international conventions viz. STCW, SOLAS – Crew management companies – Maritime training establishments – Maritime Training administration – Port State Control

Unit V – Ship Management
Standard Ship Management contracts (BIMCO Shipman) – International Safety Management (ISM) code – ISMA code of Ship Management Practice

References:
Commercial Management in Shipping – R.Tallack (Nautical Institute)
8. SHIPPING LAWS

OBJECTIVE
This paper provides the student with an understanding of how shipping Laws are framed and practiced and the importance of Business Ethics in the role of managers in their profession.

Unit I

Unit II

Unit III

Unit IV

Unit V

REFERENCES
1. Maritime Law of India – Dr.Nagendra Singh, 1st Ed.1979 (Bhandarkar)
7. Arrest of Ships – C.Hill, 1st Ed. 1985 (LLP)
8. Shipping Law – Chorley & Giles, 8th Ed.1987 (Pitman)
9. MANAGEMENT OF MULTIMODAL TRANSPORTATION

OBJECTIVE:
The student will be able to understand the need for multimodal transportation operations (MTO), the related tariffs applicable to air/rail/road/sea routes and optimum management of the operation.

UNIT I

UNIT II
Through Transport Pricing-Tariffs and Freight Rates-Modern Freight Tarrifs and Pricing-Creating through Transport Prices - Inventory Management and the Supply Chain-Inventory-Just In Time-Integrated Supply Chain Inventory Management

UNIT III
Fleet Size-Owning versus Leasing-Meeting the Demand for Containers - Operators of Multi-modal Transport and Logistics Services-Vessel Operators-Airlines- -In house Logistics Management-Corporate structures in Multi-modal Transport-Computer Applications in Multimodal Transport - Equipment Inventory

UNIT IV

UNIT V
Statutory Regulations and Restrictions-National and International Restrictions on the movement of Goods - Multi modal transport act of India customs duties and free trade areas various service contracts applicable and related exemptions - IATA and international ship owning organizations -road transport organizations-

Text Books:
1. Multimodal containerized transport for export and import by N.Rengaraj/N.Viswanath.

Reference Books:
10 - INDUSTRIAL INTERNSHIP PROGRAMME – MAJOR PROJECT

A requirement of this program is to complete a period of internship which requires 30 days on the job training during which the students are expected to practice in the workplace those skills they acquired at class, thus gaining valuable ‘hands on’ experience and exposure to the real nature and environment of the ‘world of work’.

The main objectives of INTERNSHIP are to:
1. Broaden the student’s awareness of workplace practice.
2. Provide the student with relevant practical experience.
3. Establish and maintain contacts between INSTITUTE and people in key positions in the private and public sectors.
4. Maintain strong links with employers.
5. Monitor employers’ requirements and adjust services and programs accordingly.
6. Promote INSTITUTE services and activities with industry.
7. Satisfy awarding body requirements.

STUDENT ASSESSMENT
Assessment integrity is maintained by a commitment to the following principles:
1. Assessment of competence is based on performance criteria.
2. Continuous assessment is conducted in both education and work environments.
3. Assessment is conducted by qualified assessors.
4. All assessments are sample-checked by qualified internal verifiers to confirm that they meet the assessment criteria, in particular validity, consistency and objectivity.
5. Feedback from students provides a basis for the evolving learning and assessment strategies.

PROGRAMME EVALUATION -
It is the practice at INSTITUTE to have its program evaluated by both students and employers. Results of these program evaluations, which are rated by professional external evaluators, show consistently high levels of satisfaction. Institute is firmly client-oriented. Programs are developed to meet the needs of clients, particularly the employers and students. This approach has enabled to develop high quality education program to meet the needs of a variety of clients from a wide range of organizations.

PROJECT WORK PHASE

COURSE OBJECTIVE

A requirement of this program is to complete the project work where the students are expected to write reports in their chosen field of interest within the various verticals of the Chartering and Ship Broking industry which will enable the student to gain more in depth knowledge of the chosen vertical.

The completed report which shall be done under the guidance of the respective project guides and shall include the current business practices and also suggest improvements to the existing processes.