



GUJARAT UNIVERSITY

B. K. SCHOOL OF BUSINESS MANAGEMENT

MBA IN MARITIME MANAGEMENT CURRICULUM

EFFECTIVE FROM ACADEMIC YEAR 2011-12 ONWARDS

(ACADEMIC COUNCIL DATED:-18/08/2012)

Programme structure

- a) **Duration of the programme** : Two years full time programmes.
- b) **No. of semesters** : Two semester each in the 1st and 2nd year for the fulltime MBA program, 1st to 3rd semester programme are class room teaching and 4th semester will be exclusively on-site/ on job training in an institution engaged in maritime activities.
- c) **Duration of one semester** : 15 weeks of direct teaching and 2-3 weeks for examination and related activities (beginning from July/August to December and January to April/May in each academic year)
- d) **Credit requirements** : A total of 96 credit hours (one credit hour is equal to 15 hours of class room teaching)
- e) **Summer project duration** : Eight to 10 weeks after the 2nd semester for the programme.
- f) **Validity of registration** : The students who have registered for for the programme should complete the same successfully within five years. Those who could not complete the programme within this period should seek the University's approval for continuation through the School, which may be granted at the discretion of the university.
- g) **Students who drop out** : Those students who drop out of the programme in an academic year after having paid the fee will be allowed to rejoin the programme in the subsequent year, subject to the discretion of the School.
- h) **Attendance** : For completing the programme, Attendance in 75% of the total sessions is necessary. However it is desirable to maintain a reasonable level of attendance in every course.

The Director of the School may condone the shortage of attendance up to 25%, on a case-to-case basis, if the absence is due to compelling circumstances. Beyond that it will be the decision of the faculty and University.

- i) Annual calendar** : The annual calendar will be declared by the University in the beginning of the year, indicating the start and end of semesters, internal and external examination time slots, etc.

Gujarat University
B. K. School of Business Management
List of Courses for MBA in Maritime Management

Course code	Name of Subject	Credit	No. of Class Hour
First semester			
FC101	Introduction to Maritime Management-I (IMM-I)	3.5	52
FC102	Principles of Management (POM)	3.5	52
FC103	Financial Accounting of Budgeting (FA&B)	3.5	52
FC104	Organizational Behaviour (OB)	3.5	52
FC105	Quantitative Analysis & Modeling Techniques (QA&MT)	3.5	52
FC106	Introduction to Information Technology (IIT)	3.5	52
FC107	Written and Oral Communication (W&OC)	3.5	52
FC108	Introduction to International Trade and Commerce (IITC)	3.5	52
		28	416
Second Semester			
FC201	Introduction to Maritime Management-II (IMM-II)	3.5	52
FC202	Export-Import Procedure & Documentation (EIP & D)	3.5	52
FC203	Maritime Economics (ME)	3.5	52
FC204	Costing and Financial Management (C&FM)	3.5	52
FC205	Marine Insurance and Risk Management (MI&RM)	3.5	52
FC206	Human Resource Management (HRM)	3.5	52
FC207	Marketing Strategy and Control System (MS&CS)	3.5	52
FC208	Environment & Disaster Management (E&DM)	3.5	52
		28	416

Third Semester			
Compulsory Course			
SC301	Mercantile and Maritime Law (M&ML)	3.5	52
SC302	Project Management and Financing (PM & F)	3.5	52
SC303	Strategic Management in Maritime (SMM)	3.5	52
SC304	Infrastructure Management (IM)	3.5	52
SC305	Shipping and Logistic Management (S&LM)	3.5	52
		17.5	260
Elective 1: Port Management			
SCP301	Port Operation and Management (PO&M)	3.5	52
SCP302	Port Planning & Development (PP&D)	3.5	52
SCP303	Port, Safety, Security and Vessel Traffic Management System (PSS&VTMS)	3.5	52
	OR	10.5	156
Elective 2: Shipping and Logistics			
SCS301	Logistics and Supply Chain Management (L&SCM)	3.5	52
SCS302	Line Trade and Multi Modal Transport (LT&MMT)	3.5	52
SCS303	Chartering & Chartering Practices (C&CP)	3.5	52
	OR	10.5	156
Elective 3: Coastal Resource Management			
SCC301	Coastal Eco-system, Bio Diversity and Management (CEB&M)	3.5	52
SCC302	Coastal Shipping, Security and Safety Management (CSS&SM)	3.5	52
SCC303	Coastal Resource Management & GIS (CRM&GIS)	3.5	52
		10.5	156
Fourth Semester			
LTP	On-site Project Training / On Job Training 4 to 5 Months (Long Term)	10	162
SIP	Summer Internship Placement 6 to 8 Weeks after First MBA-I	2	30
		12	192
	Total Credits of Two Years	96	1440

Subject	FC101 - Introduction to Maritime Management-I (IIM-I)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To introduce the students to the strategic importance of all elements and their inter-relations in the maritime and international trade environment. After completing this module they would be able to identify the aspects driving change and effectively partake in the decision making processes in the maritime sector. The curriculum also focuses on the future developments in the context of port & ship management and logistics.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to Maritime Trade and Transportation	<ul style="list-style-type: none"> • Maritime History • Evolution of International Trade & growth of Ports of the World • Role of Ports, Shipping, Coastal and Inland Water Transport in Maritime Transport • World Seaborne Trade • Port & Shipping Terminology • Present Scenario of Port and Shipping • Types of Ports • Structure of World Fleet • Vessels/Ship – Its specification / Particulars • Coastal Shipping • Inland Water Ways & Canals • Maritime business in developed and developing countries 	20	10
II	Physical and Geographical Overview	<ul style="list-style-type: none"> • General Geography • Continents , Countries • Seas, Oceans • Locations of diff. ports & its elements • Winds, Tides, Waves, Swells, Floats, Anchor, Erosion / Siltation / Squaring • Effects of currents and weather on ports & shipping • Landing Place • Port Layout Plan & Marine Layout Plan • Port Limit • Territorial Waters, Inland Waters • Anchor / Anchorage / DWA / Fairway Buoys • Cyclones • Navigational Channels, Naval aids, Navigational Charts 	20	10

III	Water Transport/ Water Ways and Canals / Time Zone	<ul style="list-style-type: none"> • Basic Port Facilities • Significance and Geographical Influence on Shipping • Description of Water Ways and Canal influence in Shipping • International Dateline • Time and International load line zones 	20	10
IV	Ports sector and ports in India and world	<ul style="list-style-type: none"> • Basic Elements of Sea Ports • Functions of Ports – Basic & Ancillary Port functions • Classification of Ports • Hub and Feeder Ports • World's Major Sea Ports • Ports vs. Terminals • Perspective of Major & Non Major ports • Major Ports and their functioning • Role of Transshipment • Multimodal Development • SEZ – An introduction • Introduction to Private Participation Models • Port Sector Overview: National & State Level • Indian Port Sector: Overview 	20	10
V	Major Trading Blocks of the World and Port Abbreviations & Terminologies	<ul style="list-style-type: none"> • EC/EU • EFTA • OAU • NAFTA • OECD • ASEAN • LAPTA • SAARC • CIS • GATT • WTO • SAFTA 	20	10
	Text Books	<ol style="list-style-type: none"> 1. Commercial Geography – S. A. Bari, 6th ED. (Sheth) 2. A Glossary of Geographical Terms – Sir D. Stamp, 2nd ED. (Longman) 		
	Reference Books	<ol style="list-style-type: none"> 1. Ships & Shipping – M. Palmer, 1st ED. (BTB) 2. Ports Around the World – Y. Karmon, 1st ED. (Crown) 3. Geography of Sea Transport – A. D. Couper, 1st ED. (HUL) 4. Lloyd's Maritime Atlas - 14th ED. (Heinemann) 5. Lloyd's Maritime Operation 6. Review of Maritime Transport 2011 		

Subject	FC102 - Principles of Management (POM)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To provide an understanding of the nature of organizational operation & change; the role of a manager in dealing with that change; and skills which will allow them to contribute positively to the change process. To enable critical evaluation of the change process To enable application of a range of appropriate conceptual tools for effectively managing the dynamic organization. To develop understanding of latest management principles and get prepared to face the management challenges of 21 st century.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to Principles of Management & Management in 21st Century	<ul style="list-style-type: none"> • The dynamic New Workplace • Management-Evolution • Organizational & Natural Environment • Social Responsibility & Ethics • Globalization & Management • Quality Management 	20	10
II	Planning	<ul style="list-style-type: none"> • Decision making • Planning & Strategic Management-Evolution • Strategic Implementation 	20	10
III	Organizing	<ul style="list-style-type: none"> • Organizational Design & structure • Power & Distribution Of Authority • Human Resource Management • Managing Organizational change 	20	10
IV	Leading	<ul style="list-style-type: none"> • Motivation • Leadership • Team & Team Works • Communication & negotiation 	20	10
V	Controlling	<ul style="list-style-type: none"> • Effective control & Budgeting • Operational Management • Information System 	20	10
	Text Book	<ol style="list-style-type: none"> 1. Management by J. A. F. Stoner, R. E. Freeman & D. R. Gilbert Jr. 2. 'Organization Theory – Structure, Design & Applications' – Stephen P. Robbins; - Prentice Hall of India, New Delhi, Third edition 		
	Reference Book	1.Organisation Theory, Structure, processes& outcome by Richard Hall		

Subject	FC103 - Financial Accounting & Budgeting (FA&B)
Academic Year	2011-12 onwards
Credits	3.5
Objective	<p>To provide students with the tools to enable them to interpret and evaluate financial information and utilize financial information for decision making purposes.</p> <p>To provide competencies for:</p> <ol style="list-style-type: none"> 1. Creating draft financial statements 2. Critical analysis of information contained in financial statements 3. Select and apply financial decision making techniques to appraise projects 4. Complex investment decisions 5. Appreciate differences between financial decision-making in the public & private sector 6. Exposing the students to concepts of cost and cost accounting / classification / accounting methods
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Fundamentals of Financial Management & costing	<p>Financial Management</p> <ul style="list-style-type: none"> • Scope of finance • Functions of financial management • Goals of financial management • Role of finance manager • Organization of finance functions <p>Costing</p> <ul style="list-style-type: none"> • Meaning of costing and cost accounting, difference between financial accounting and cost accounting • Classification of costs, cost center and cost unit • Objective of cost accounting , advantages and limitations • Designing and installation of a costing system 	20	10
II	Working Capital Management and Time Value of Money	<p>Working Capital Management</p> <ul style="list-style-type: none"> • Meaning and importance of working capital management • Types and determinants of working capital requirement • Understanding and calculation of operating cycle • Estimating working capital requirements • Sources of working capital finance 	20	10

		<p>Time Value of Money</p> <ul style="list-style-type: none"> • Time preference for money • Future value of single cash flow and an annuity • Present value of single cash flow and an annuity 		
III	<p>Cost of Capital and Capital structure</p>	<p>Cost of Capital</p> <ul style="list-style-type: none"> • Meaning and importance • Components of Cost of Capital <ul style="list-style-type: none"> ○ Cost of Debt ○ Cost of Preference Capital ○ Cost of Equity • Weighted Average Cost of Capital <p>Capital Structure</p> <ul style="list-style-type: none"> • Meaning and determinants • Approaches to determine appropriate capital structure <ul style="list-style-type: none"> ○ EBIT – EPS Analysis ○ ROI – ROE Analysis ○ Leverage Analysis 	20	10
IV	<p>Capital Project Appraisals</p>	<ul style="list-style-type: none"> • Nature and types of investment decisions • Investment evaluation criteria <ul style="list-style-type: none"> ○ Return on Investment ○ Payback period ○ Net present value ○ Profitability index ○ Internal rate of return 	20	10
V	<p>Costing Methods and Techniques</p>	<p>Costing Methods</p> <ul style="list-style-type: none"> • Unit costing <ul style="list-style-type: none"> ○ Meaning and applications ○ Cost sheet and Estimated cost sheet • Service costing <ul style="list-style-type: none"> ○ Meaning and applications <p>Costing Techniques</p> <ul style="list-style-type: none"> • Marginal costing <ul style="list-style-type: none"> ○ Break even analysis ○ Decision making using marginal costing 	20	10
	<p>Text Book</p>	<ol style="list-style-type: none"> 1. Financial Accounting – Dhanesh Khatri (TMH) 2. Financial Accounting : A managerial Perspective – R. Narayanaswamy (PHI) 		
	<p>Reference Book</p>	<ol style="list-style-type: none"> 1. Accounting for Managers – J. Madegowda (Himalaya) 2. Financial Accounting: A managerial emphasis – Ashok Banerjee (Excel) 3. Financial Accounting for Management: An analytical perspective – Ambrish Gupta (Pearson) 		

Subject	FC104 - Organisational Behaviour (OB)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	An organisation continually has to adapt to changes in the competitive environment. Its effectiveness depends on the motivation and behaviour of the workforce. Thus the students are exposed to the principles & practices for capitalising on the capabilities of the workforce, developing effective teams, designing attractive job environment and managing the dynamics of organizational change especially in the fast developing Port & Shipping Industry.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction and basic concepts of Organizational Behavior; OB in the changing environment	<ul style="list-style-type: none"> Basics of organizational behavior related to management. Organizational control and reward systems. Influence processes in organizations: power, politics, and leadership. 	20	10
II	Foundations of Individual Behavior	<ul style="list-style-type: none"> Perception, Learning Process including reward systems, Personality, Values and attitudes, Business ethics, Needs, motives and goals, Theories of work motivation Job design and employee reactions to work. Stress and well-being at work. Organizational design and new service-driven organizations. Power & Distribution Of Authority Human Resource Management Managing Organizational change 	20	10
III	Group and Group Dynamics	<ul style="list-style-type: none"> Types of groups Stages of group development, Workgroup dynamics and group-based problem solving. Inter-group and Intra group dynamics, Decision Making, Team and Team Building, Conflict and Negotiation, Leadership 	20	10

IV	Total Organization	<ul style="list-style-type: none"> • Power and Politics, • Communication • Transactional Analysis – Egostates – Life Position – • Games, 	20	10
V	Organizational Structure and Design	<ul style="list-style-type: none"> • Organizational Culture • Managing transitions: organizational culture and change. • Learning Organization 	20	10
	Text Book	<ol style="list-style-type: none"> 1. Organizational Behavior By Stephen P. Robbins, Judge and Sanghi – Pearson education (latest edition) 2. Organizational Behavior By Fred Luthans – Mc-Graw Hill Publication 8th Ed. (or latest edition) 		
	Reference Book	<ol style="list-style-type: none"> 1. Behavioral Processes, By Udai Pareek, 2. T. V. Rao & Pestonjee, Oxford & IBH, 1996 (or latest edition) 		

Subject	FC105 - Quantitative Analysis & Modeling Techniques (QA&MT)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	This module is designed to provide the students with a conceptual framework of quantitative techniques, strategies and methods associated with current business environment. Also to enable them to analyze situations & generate structured decisions that will stand up to critical scrutiny.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Contents:

Module	Description	Content	Weight-age	Sessions
I	Basic Statistics	Descriptive Statistics: ▪ Central Tendency Measures of Dispersion, Skewness, Review of permutation and Combination ▪ Introduction to Probability and Baye's Theorem; Random variable and Probability distribution, Expected Value, Variances & Covariance; Decision Analysis, Expected Value, Expected Opportunity Loss, Decision Tree	20	10
II	Probability Distribution and Sampling	▪ Discrete Probability Distributions - Binomial, Poisson, Uniform; Continuous Density function Uniform, Normal distribution, ▪ Sampling and Sampling distribution; Determinate of sample size; Testing of Hypothesis; Chi-square test - Test for Independence, Goodness of fit;	20	10
III	Correlation, Regression and ANOVA	▪ Correlation & Simple Regression: One-way Analysis of Variance, etc.	20	10
IV	Introduction to OR and Linear Programming	▪ Introduction to Operations Research (OR): Nature of OR problems; Decision Science, Modeling Techniques, ▪ Introduction to Linear Programming: Formulations; Graphical Methods of solution; Duality & its implications; Sensitivity Analysis, ▪ Exposure to available computer packages: Transportation & Transshipment Problem; Assignment & Traveling Salesmen Problems;	20	10
V	Management Science Model	▪ Introduction to Integer Programming: Markov Analysis; ▪ Introduction to Network:- Shortest path / max-flow / Minimum spanning tree , Simulation; Queuing Problems (only Elementary Models);	20	10

	Text Books	<ol style="list-style-type: none"> 1. Statistics for Management - Richard Levin & David S Rubin, PHI (latest edition) 2. Introduction to Management Science: A Quantitative Approach to Decision Making by Anderson, David R. 		
	Reference Books	<ol style="list-style-type: none"> 1. Miller & Freunds Probability & Statistics for Engineers – Richard A. John 2. Probability and Statistical Inference, 5th edition.,- Hogg R V & E.A. Tanis 3. Quantitative Techniques – Theory & Problems - by P.C. Tulsian and Vishal Pandey 4. Statistics for Business and Economics, 6th edition., - McClave J T & P.G.Benson 5. Applied Linear Statistical Models, 2nd edition -Neter J W Wasserman & M H Kutner 6. Introduction to Management Science, 5th edition - Cook T M & R A Russel 		

Subject	FC106 - Introduction to Information Technology (IIT)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To enable students to understand the latest technology available in the Information Technology sector (both hardware & software), their comparative advantages & finally assess the suitability for implementation in the maritime organization in a manner as to provide a synergistic environment of working in a mutually beneficial manner with the stakeholders.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction: Information System	<ul style="list-style-type: none"> • Fundamentals of Information Systems • Role of information Systems in Port & Shipping and Logistics business and their respective usage and utility in the organization • Understanding Computer Hardware, their critical parts, connected devices, secondary storage devices, and various peripherals / add-ons • Computer Software: Types and utilities. Major software issues 	20	10
II	Telecommunication Network Applications	<ul style="list-style-type: none"> • Internet, Intranet, Extranet, VPN and the wireless web. • Integrating Wireless Web into Business Strategy • Foundations of modern Networks- LAN, WAN, MAN • Links, between Networks, devices and Media to link the Networks. • Wireless Networks: Introduction, Bandwidth, GSM and CDMA technologies, concept of WAP, GPRS, WIFI, Bluetooth, RFID. Brief introduction to m-commerce and value added services on cellular networks • Case studies in port / shipping 	20	10

<p>III</p>	<p>Decision Support Systems</p>	<ul style="list-style-type: none"> • Business and Decision support • DSS Trends and issues • Geographic Information and Data Visualization Systems • Overview of Group Decision Support System. • Knowledge Management • Information systems and Knowledge Work Systems, • Artificial Intelligence / Expert Systems and Organizational Intelligence, • Neural Networks, Fuzzy Logic etc 	<p>20</p>	<p>10</p>
<p>IV</p>	<p>Enterprise Business Systems</p>	<ul style="list-style-type: none"> • Actual implementation strategies in ports both India & Abroad • Case studies & analysis • Implementation benchmarking • Customer Relationship Management in Port & Shipping / connectivity through IT enabled systems • Benefits security and challenges and trends in CRM in Shipping & Ports • IT in Supply chain management- role, benefits, challenges, trends (cases in warehouses / CFS / FTZ) • Enterprise Resource planning: Its benefits, challenges, costs and trends. Causes of ERP failure: Port Case Study • E-commerce Application in Shipping & Customs (& generally foreign trade) • E-commerce application trends {B to C , B to B and C to C} • Clicks and Bricks in e-commerce, collaborative commerce, Globalization of E-business. 	<p>20</p>	<p>10</p>
<p>V</p>	<p>System Development Strategies</p>	<ul style="list-style-type: none"> • Systems as planned organizational Change • Business Process Reengineering through Systems • Basics of System Analysis and Design • Customization versus independent development – feasibilities & issues • Cyber Law & Security Management of IT • Port / Ship Security – usage of IT • Tools of Security Management, Internet-worked security defenses like Encryption, Firewalls. Other Security Measures like Security Codes, Biometric Security, and Fault Tolerant Systems and Disaster recovery. • Accounting / FAS 	<p>20</p>	<p>10</p>

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		<ul style="list-style-type: none"> • Logistics & Supply Chain Management – IT use in Railways (port –rail interface in IT) • IT implementation in bulk / break bulk & container terminals • Traffic Management Scheduling of Ships & Space Management – Ship / Warehouse • EDI – Electronic Data Interface (Custom / Bank / Shippers / Agents) 		
	Text Book	1. Management Information Systems by James O'Brien (TMH)		
	Reference Book	<ol style="list-style-type: none"> 1. Management Information Systems by James O'Brien (TMH) 2. Management Information Systems: Managing the Digital Firm by Laudon, Kenneth C. and Laudon, Jane P (Pearson) 		

Subject	FC107 - Written & Oral Communication (W&OC)
Academic Year	2011-12
Credits	3.5
Objective	<p>This course aimed at enabling students to manage business professionally through oral & written communication in concise and precise manner.</p> <p>Also included in this is the practice of writing of business e-mails, letters and reports. It is meant to gain an understanding of the layout, convention and style of these different types of business writing and will address common areas of miscommunication.</p> <p>“Presentation skills” is one more area which is also covered.</p>
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to Communication	<ul style="list-style-type: none"> • Importance of Communication • Types of Communication • The right way to communicate • Communication in Organization • Managers and Communication • Inter personal Communication 	20	10
II	Writing	<ul style="list-style-type: none"> • Planning for writing • Select format and draft • Documentation of draft • Editing • Final content 	20	10
III	Speech / Presentation	<ul style="list-style-type: none"> • Types of presentation • Organizing & delivering speech • Organizing structure of presentation • Planning visual aids and handouts 	20	10
IV	Office Memos, Orders & Circulars-Meetings & Reports	<ul style="list-style-type: none"> • Structure of office memo (different situations & different levels) • Structure of routine letters & circulars • Structure of report writing • Checklist for report • Presentation of final report in meeting 	20	10
V	Group Skills Discussion	<ul style="list-style-type: none"> • Finding information • Processing information 	20	10

		<ul style="list-style-type: none"> • Evaluation of information • Reading skills • Listening skills • Writing skills 		
	Reference Books	<ol style="list-style-type: none"> 1. Guide to Managerial Communication, Mary Munter 2. Business Communication by Helen Rothschild Ewald and R. E. Burnett, N. J. Prentice Hall 3. Lesikar's Basic Business Communications by R. V. Lesikar 4. Business Communication Today : Courtland Bovee & John Thrill – Tata McGraw Hill 5. The Essence of Effective Communication : Ron Ludlow & Fergus Panton – Prentice Hall 6. Business Communication : Sushil Bahl – Prentice Hall 		

Subject	FC108 - Introduction to International Trade & Commerce (IITC)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To grow and stay competitive in the global economy, business professionals in organizations of all sizes-from entrepreneurial companies to large corporations-must have a thorough understanding of the dynamics of international business. The International Trade and Commerce unit is designed to provide this broad & comprehensive curriculum which shall expose the students to the business, economic, and political forces dominating the rapidly increasing international marketplace which shall finally make them confident to pursue careers in International organizations, Port and allied sectors dealing with trade and international markets.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	International Business	<ul style="list-style-type: none"> • Definition, nature, approaches and theories of International business • International economic environment • Economic and political environment • Different theories like Adam Smith Model / Ricardo / H-O Model / specific Factor Model / Neo-Ricardian Theory / Sraffa trade theory etc • International; trade policy, Tariffs, Subsidies, Restraints and administrative policies 	20	10
II	Modes of International Business	<ul style="list-style-type: none"> • Export-Import Policy • Licensing • Franchising • Contracting • Turnkey Projects • Mergers • Acquisitions • Joint Ventures • International Marketing Channels 	20	10
III	World Trade Organization and Trade Blocks	<ul style="list-style-type: none"> • Economic Integrations – free trade area, custom unions, common markers • Economic unions • EEC, ASEAN, SAARC, SAFTA. • Liberalization of agriculture trade 	20	10
IV	International Finance	<ul style="list-style-type: none"> • Introduction – Foreign Exchange, Types of foreign exchange rates 	20	10

		<ul style="list-style-type: none"> • Convertibility of Rupees and its implications • Direct Foreign Investment: Reason of Direct foreign investment • Strategies of Direct Foreign Investment • International Institutions and their role in Capital Market- I.M.F., World Bank and ADB 		
V	The Global Pattern of Maritime Trade	<ul style="list-style-type: none"> • Introduction • The West Line Theory • Geographical Distribution of seaborne trade • Maritime trade of the Atlantic and East pacific • Maritime trade of the Pacific and Indian oceans • Eastern Europe and the former Soviet union • Summary 	20	10
	Text Book	<ol style="list-style-type: none"> 1. Roger Bennett International Business 2. Justin Paul International Business 		
	Reference Book	<ol style="list-style-type: none"> 1. Ajami et.al International Business: Theory and Practice 2. P. Subba Rao, International Business – Text and cases 3. Francies Cherunilam, International Business 		

Subject	FC201 - Introduction to Maritime Management-II (IMM-II)
Academic Year	2011-12 onwards
Credits	3.5
Objective	To introduce the students to the strategic importance of all elements of Maritime Trade and their inter-relations in the international trade environment. After completing this module they would be able to identify the current issues & challenges in global perspective & effectively manage maritime organizations.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	International Maritime Organization (IMO) & Indian Shipping Scenario and GMB	<ul style="list-style-type: none"> • Role of Port in Indian Economy, Trade and Commerce • Role and Importance of a Port Authority • Centre vs State Ports • GMB ports – profile • Role of GMB & Ministry of Shipping • Various Agency in Port & Traffic Working • Port Conservancy – navigational issues • Conventions & Port State Control • Latest Shipping Policy Guidelines & issues thereof • Various Laws and Acts applicable to Port and Shipping Operation • Documentation / Certificates on Board of Vessel / Ship • Role of Ports • Various regulations concerning port • Role of Regulatory Authorities 	20	10
II	Flag of Convenience & Navigational Aids & Charts, Shipping Routes and Shipping Organization	<ul style="list-style-type: none"> • Ship Introduction <ul style="list-style-type: none"> - Types - Size & Capacity - Particulars - Specification - GRT, NRT, LDT, DT, Load Line, Freeboard etc. • International Ship Registration • Ship registration – issues - open registry Countries (FOC) – effects on shipping • Flag Colors / Flag on Board as per Vessel 	20	10

		<ul style="list-style-type: none"> • ITF – role – use & misuse • Basic Concept of Navigational Charts & its authority • Weather Signals – control on Navigation & Its Inceptive History • Traffic handling & Traffic fore cast • Port security (International & Indian) 		
III	Acts / Laws and Regulations Port Policy and Privatization	<ul style="list-style-type: none"> • Documentation / Certificates on Board of Vessel / Ship • Concept, Need, Port Policy, Port policy, Boost Policy, Captive Jetty Policy, Concession, Agreement • Ownership Models • Public - Private Port, Benefits • Port Reforms, • Captive jetty • Ship Building Yard & Its Policy of the State Government 2010 • Ship Recycling Yard • Role of various authority for clearance of proposals 	20	10
IV	Coastal Resources And Infrastructure	<ul style="list-style-type: none"> • Coastal Shipping in India • Coastal zone development plan\ • Coastal resource mapping • Coastal resource • Conservation • Coastal resource management 	20	10
V	Introduction to Logistic and Supply Chain Management	<ul style="list-style-type: none"> • Introduction to logistics Management – Significance of logistics – The Total distribution concepts – Integrated Logistics • The Economics of Logistics • Logistics in International Trade • Shipping line, CFS, CHF, Freight forwarders - roles • Shipping line, CFS, CHF, Freight Forwarders • Various Logistics of Cargo Movement • Hinterland – connection with logistics • CONCOR and its role • Materials handling packaging and transportation systems 	20	10
	Text Book	1. Handbook of Logistics and Distribution Management – John Gattorna		
	Reference Book	2. Logistics Management – P. Fawcett, R. McLeish and I Ogden 3. Strategic Logistics Management – D.M. Lambert & J R Stock, Richard D Irwin Inc.		

Subject	FC202 - Export-Import Procedure & Documentation (EIP&D)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To provide comprehensive understanding on export and import procedures and documentation process (both national & international) in Shipping, ports & logistics sectors thus enabling students complete comprehension and ability to manage & redefine the commercial processes in the context of total logistics scenario.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	International Finance	<ul style="list-style-type: none"> • Export and Import Finance • Foreign exchange Management • Exchange Control Regulation • Trade Payment Methods • Uniform customs and practices for Documentary Credits • Finance for Short Term and Long Term Trade from Exim Bank 	20	10
II	International Marketing	<ul style="list-style-type: none"> • Changing Global Market Place and Trends in Foreign Trade • How to get Useful Information and to do Desk Research • International Marketing • Opportunities and Challenges • Element of Global Marketing Success • Market approach and Strategies • International Marketing and Indian Context 	20	10
III	Export Incentives – Procedure and Documentation	<ul style="list-style-type: none"> • Advance Authorization • Duty Free Import Authorization • DEPB-Duty Draw Back • EEFC Account – Packaging Credit • Summary of Pre and Post Export Incentives 	20	10
IV	Foreign Trade Policy and Customs- An Overview	<ul style="list-style-type: none"> • Structure of Foreign Trade Policy • Who can Import, What can be Imported • Modes of Import of Capital Goods • Modes of Import of Raw materials and Components • Custom Concepts • Classification and Valuation • Adjudication 	20	10
V	Shipping,	<ul style="list-style-type: none"> • Elements of Export Import Contracts 	20	10

Gujarat University, Ahmedabad – MBA in MM Programme

	Logistics and Marine Insurance	<ul style="list-style-type: none"> • Bill of Lading- Airway Bill • Conference Line Vessel • Charter Party Vessel • Type of Containers • Container Dimension • Incidence of Rates and Mode of Computation • Role of Planning of Logistic in Import and Export Business 		
	Text Book	1. Export - Import And Logistics Management by Rai, Usha Kiran PHI		
	Reference Book	1. Export/Import Procedures and Documentation Thomas Johnson, Donna Bade, TMH		

Subject	FC203 - Maritime Economics (ME)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	<p>To provide the student with an overall understanding of the economics of shipping practice because of increasingly important role of management in the area of budgeting, financing and marketing.</p> <p>To provide an in depth understanding of the economies guiding the ever changing shipping & logistics market in India & abroad.</p> <p>To create confidence in handling the multifarious issues starting from ship building to demolition; ship management parameters, comprehensive international transport system operation & viability; thus broadening their horizons</p>
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	The Economic Organization of the Shipping Market	<ul style="list-style-type: none"> • The economic role of the shipping industry • International transport system • The demand for sea transport • The world merchant fleet • The supply of sea transport • The shipping companies who run the business • Determinants of maritime transport costs • Port Pricing 	20	10
II	The four Shipping Markets	<ul style="list-style-type: none"> • The Decisions facing ship owners • The four shipping markets • Freight market • Sale and purchase market • The new building market • The demolition market 	20	10
III	Supply, Demand and Freight Rates	<ul style="list-style-type: none"> • The shipping market model • The freight rate mechanism • Monopoly Environment and Role of Competition 	20	10
IV	Cost, Revenue and Financial Performance	<ul style="list-style-type: none"> • Cash flow and the art of survival • The cost of running ships • Price of Vessels • The capital cost and financial performance • The revenue calculation 	20	10

		<ul style="list-style-type: none"> • Computing the cash flow 		
V	The Economics of Shipbuilding and Scrapping	<ul style="list-style-type: none"> • Role of the merchant shipbuilding and scrapping industries • Regional structure of world shipbuilding • Shipbuilding market cycles • The economic principles • The shipbuilding production process • Shipbuilding costs and competitiveness • The ship breaking industry • Alang: Indian ship breaking yard 	20	10
	Text Books	1. Principles of Economics, 3 rd ED., N Gregory Mankiw		
	Reference Books	<ol style="list-style-type: none"> 1. International Economics, 2nd ED. 2. Miltiades chachdrades International Economics, McGraw-hill international editions 3. Martien Stopford – Maritime Economic, 2nd ED. 		

Subject	FC204 - Costing and Financial Management (C&FM)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	<p>Enabling students to take up financial management in Maritime Industries by providing current , updated & relevant inputs on</p> <ul style="list-style-type: none"> • The fundamentals of financial management and its application into maritime industry. • The meaning and nature of cost and cost accounting • Various classifications of cost and elements of cost in detail. It also includes methods and techniques of costing • Working Capital issues & cost of capital • Project Finance
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Contents:

Module	Description	Content	Weight-age	Session
I	Fundamentals of Financial Management & costing	<ul style="list-style-type: none"> • Financial Management <ul style="list-style-type: none"> ○ Scope of finance ○ Functions of financial management ○ Goals of financial management ○ Role of finance manager ○ Organization of finance functions • Costing <ul style="list-style-type: none"> ○ Meaning of costing and cost accounting, difference between financial accounting and cost accounting ○ Classification of costs, cost center and cost unit ○ Objective of cost accounting , advantages and limitations ○ Designing and installation of a costing system 	20	10
II	Working Capital Management and Time Value of Money	<ul style="list-style-type: none"> • Working Capital Management <ul style="list-style-type: none"> ○ Meaning and importance of working capital management ○ Types and determinants of working capital requirement ○ Understanding and calculation of operating cycle ○ Estimating working capital requirements ○ Sources of working capital finance • Time Value of Money <ul style="list-style-type: none"> ○ Time preference for money 	20	10

		<ul style="list-style-type: none"> ○ Future value of single cash flow and an annuity ○ Present value of single cash flow and an annuity 		
III	Cost of Capital and Capital structure	<ul style="list-style-type: none"> ● Cost of Capital <ul style="list-style-type: none"> ○ Meaning and importance ○ Components of Cost of Capital <ul style="list-style-type: none"> ✓ Cost of Debt ✓ Cost of Preference Capital ✓ Cost of Equity ○ Weighted Average Cost of Capital ● Capital Structure <ul style="list-style-type: none"> ○ Meaning and determinants ○ Approaches to determine appropriate capital structure <ul style="list-style-type: none"> ✓ EBIT – EPS Analysis ✓ ROI – ROE Analysis ✓ Leverage Analysis 	20	10
IV	Capital Project Appraisals	<ul style="list-style-type: none"> ● Nature and types of investment decisions ● Investment evaluation criteria <ul style="list-style-type: none"> ✓ Return on Investment ✓ Payback period ✓ Net present value ✓ Profitability index ✓ Internal rate of return 	20	10
V	Costing Methods and Techniques	<ul style="list-style-type: none"> ● Costing Methods <ul style="list-style-type: none"> ○ Unit costing <ul style="list-style-type: none"> ✓ Meaning and applications ✓ Cost sheet and Estimated cost sheet ○ Service costing <ul style="list-style-type: none"> ✓ Meaning and applications ● Costing Techniques <ul style="list-style-type: none"> ○ Marginal costing <ul style="list-style-type: none"> ✓ Break even analysis ✓ Decision making using marginal costing 	20	10
	Text Book	<ol style="list-style-type: none"> 1. Financial Management – I.M. Pandey (Vikas) 2. Financial Management – Khan and Jain (TMH) 		
	Reference Book	<ol style="list-style-type: none"> 1. Financial Management – G. Sudarsana Reddy (Himalaya) 2. Cost Accounting – M.C. Shukla, T.S. Grewal, S.C. Gupta (S. Chand) 3. Cost Accounting – Jawaharlal (TMH) 		

Subject	FC205 - Marine Insurance and Risk Management (MI&RM)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	<p>To provide a comprehensive exposure to Marine insurance covering loss or damage of ships, cargo, terminals, and any transport or cargo by which property is transferred, acquired, or held between the points of origin and final destination, to enable student to understand the enormous risks associated in Maritime trade.</p> <p>To enable comprehension of current structure / regulation/ formats of cargo insurance — which is essential in framing a total logistic plan</p> <p>To provide glimpses of Marine Insurance for Onshore and Offshore exposed property (container terminals, ports, oil platforms, pipelines); Hull; Marine Casualty; and Marine Liability.</p>
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Basic Concept of Insurance	Origin of Marine Insurance Marine Insurance & Trade Marine Insurance In Indian Market International Marine Insurance Market U K Marine Insurance Organization of Lloyd's Agents Marine Insurance & Payment of Premium Exchange Control Regulations Premium on Marine Export / Import Policies Claim Against Marine Policies	20	4
	International Contracts of Sale (INCOTERMS)	FAS, FOB, C&F , CIF Rights and obligations of Seller & Buyer Transfer of risk from Seller to Buyer Documentary Credits , Documentary Credit Terms Case Study		
	Fundamental Principles of Insurance	Utmost Good faith Insurable interest Indemnity , Subrogation , Contribution, Proximate Cause Warranties & Conditions in Marine policies Assignment of Marine Insurance Policies Case Study		
	Cargo Underwriting and Rating	Underwriting and rating of Premium Principal Factors in consideration of cargo		

II		<p>risk The Vessel , The Voyage / Transit Nature of Cargo & Packing Unitization of Packages Containerization -its Advantages & Disadvantages Insurance of Containers</p>	20	10
	Institute Cargo Insurance Coverage	<p>Marine Cargo Proposal Form Marine Cover Note Standard form of Marine Policy Open Covers & Policies Endorsements In Marine Policies Rules of Interpretation of Policy Terms Marine Insurance Clauses Risks Covered under Institute Cargo Clauses General Exclusions, Duration of Cover Institute War Clauses (Cargo) Institute Cargo Clauses(Cargo) Inland Transit Clauses (Rail / Road) Risk Covered and Standard Exclusions SRCC Clause , Incidental Clauses & warranties</p>		
	Trade related Cargo Insurance	<p>Institute Trade Clauses Package policies , Special Declaration Policies Annual Policies Duty and Increased Value insurance Insurance on FOB and Shutout Cargo Insurance of Cargo on Sailing Vessels Special Storage Insurance</p>		
	Marine Cargo Claims	<p>Actual Total Loss and Constructive Total Loss Partial Losses , Salvage Loss General Average Loss Sue and Labor Charges, Salvage & Extra Charges Cargo Claims & Procedure Insurance Survey & Survey reports Documents requirement for cargo claims , Case Study</p>		
	Recoveries under Subrogation	<p>Rights , Liabilities & Duties of Shipper & Carrier Under : Indian Carriage of Goods by Sea Act Carriage of Goods by Rail Carriage of Goods by Road Carriage of Goods by Air Multimodal transportation Liability of Port Authority Salvage Disposal</p>		

III	Hull Insurance	Types of Vessel Proposal form & Supporting Documents Classification of Vessels, Classification Societies Indian Register of Shipping Hull Rating Warranties Institute Times Clauses (Hull) Institute Voyage Clauses (Hull) P & I Clubs	20	10
	Other Hull Insurance	War Risk Insurance Of Marine Hulls S R C C Clause – Hull Insurance of- sailing Vessels, inland Vessels, Dredgers, Jetties, Wharves, Ship Building Risk Charterer’s Liability Insurance Recoveries Under Subrogation		
	General Average and Salvage	Definition of General Average York-Antwerp Rules Contributory Interest and Values Amounts Made Good General Average Procedure & Practice Example of General Average Adjustment Liability of General Average Case Study		
	Loss Prevention	Cargo loss Control & Prevention Theft, Pilferage and Non – Delivery Handling and Stowage Water Damage Containerized Cargo		
	Maritime frauds	Maritime Frauds - Scuttling Frauds Documentary Frauds Cargo thefts Fraud Related to the Chartering of Vessel Maritime Fraud & marine Insurance Precautionary Measure for fraud Prevention, Case Study		

IV	Risk Management	<ul style="list-style-type: none"> • Concept of Risk assessment & Management in Shipping & Ports • Types of Risks – Financial, Non-financial, Natural Catastrophy (AOG),Frauds,Man-made, Judgment Errors, Conceptual Errors, Calculation Errors • Risk Management Matrix • Process of mitigation • Practice 	20	10
	Categories of Risk	<ul style="list-style-type: none"> • Pure • Speculative • Fundamental • Dynamic • Static 		
V	Treatment of Risk : Process of Risk Management	<ul style="list-style-type: none"> • Eliminate / avoid • Reduce / control • Transfer to others • Funding • Monitoring • Learning / communicating 	20	10
	Risk Pyramid	<ul style="list-style-type: none"> • Study of Frequency & Severity. Risk Retention & Retention Capacity 		
	Case Studies	<ul style="list-style-type: none"> • Actual Risk Operations, Extent & Disaster Management & Lessons learnt 		
	Legal Areas	<ul style="list-style-type: none"> • Tort • Meaning of absolute liability • Grievance cell, consumer forums, ombudsman – scope & activity • Courts: sessions / district / high / supreme courts / co- operative appellate / labour appellate • Tribunals: mact / i.t. / central excise / sales tax / revenue / special / military / administrative • Consumer protection act- 1986 • Exceptional cases to human rights commission: Riots / terrorism / individual sufferings. 		

	Text Book	<ol style="list-style-type: none"> 1. Principles of General Insurance 2. Marine Claims Handbook 3. Guide to Marine Hull Insurance 4. Elements of Cargo Insurance 5. Marine Insurance published by Insurance Institute Of India 		
	Reference Book	<ol style="list-style-type: none"> 1. Handbook of Insurance Claims 2. International Maritime Fraud 3. Cargo Loss Prevention 4. Maritime Transportation: Safety Management and Risk Analysis, Svein Kristiansen, publisher: Butterworth-Heinemann 		

Subject	FC206 - Human Resource Management (HRM)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To provide most relevant & updated back ground of the Human resource principles to enable them to take care of the implementation of policies and strategies relating to the management of people in an organization including elaboration of key functions like recruitment and selection; employee record keeping; compensation and employee benefit management; and training and development.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to HRM in Port	<ul style="list-style-type: none"> • The Strategic Role of Human Resources Management. • Job Analysis. • HR Planning and Recruiting • Employees Testing and Selection 	20	10
II	HR subsystems – II	<ul style="list-style-type: none"> • Interviewing Candidates • Training and Developing Employees • Managing Strategic Organizational Renewal • Appraising and Managing Performance 	20	10
III	HR subsystems – III	<ul style="list-style-type: none"> • Managing Career and Fair Treatment • Establishing Strategic Pay Plans • Pay for Performance and Financial incentives • Managing Global Human Resources 	20	10
IV	Industrial Relations	<ul style="list-style-type: none"> • Industrial Relations – Definitions and Main Aspects • Methods of settling Industrial Disputes • Collective Bargaining • Labor Management Cooperation/Workers' Participation in Management • International Labor Organization 	20	10
V	Labour Legislations	<ul style="list-style-type: none"> • Legislations Concerning Settlement of Industrial Disputes • Trade Union Legislations • Payment of Wage Legislation • Minimum Wage Legislation • Equal Remuneration Legislation 	20	10

	Text Book	<ol style="list-style-type: none"> 1. Human Resources Management, Ninth Edition (or later) Gargy Dessler – Prentice Hall India / Pearson Education – 2003 Indian Reprint 2. Industrial Relations, Trade Unions and Labor Legi-slations, First Indian Print 2004 (or later) Sinha, Sinha and Shekhar – Pearson Education 		
	Reference Book	<ol style="list-style-type: none"> 1. Human Resource Management, K. Ashwathappa 2. Managing Human Resources, Third Edition Gomez-Mejia, Balkin and cardy – Pearson Education 3. Industrial Relations & Labor Laws, Fourth Revised Edition S.C.Srivastava – Vikas Publishing House pvt Ltd 		

Subject	FC207 - Marketing Strategy & Control Management (MS&CS)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	<p>To provide tools for investigating the role and function of marketing within the context of changing markets and increasing international competition. To provide specific inputs for:</p> <ul style="list-style-type: none"> • Critically evaluation the information needs of the marketing function in terms of its contribution to the strategic processes and tactical decision-making. • Integration of marketing decision-making with organizational strategy • Establishment of a broad base of marketing knowledge and the strategic implications. • Develop and implement marketing plans for a product or service in the context of port & shipping • Appreciating an international perspective in the global context of decision-making in marketing planning.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Understanding Marketing Management, Marketing Environment & Marketing information systems	<ul style="list-style-type: none"> • Marketing concepts & practices • Developing marketing strategies & plans • Scanning the marketing environment • Marketing Information system including Marketing Research & demand forecasting and estimation 	20	10
II	Analyzing Buying Behaviour and Strategic Marketing	<ul style="list-style-type: none"> • Analyzing Consumer markets and Consumer Buying Behavior • Analyzing Business Markets and Business Buying Behavior • Market Segmentation & targeting • Differentiation & positioning strategies • Product life-cycle marketing strategies • Dealing with market competition 	20	10
III	Product Strategies, Designing Services, Branding and Pricing	<ul style="list-style-type: none"> • Setting Product strategy • Creating brands and brand equity • Developing Pricing strategies and programs • Introducing New Market offerings 	20	10

IV	Designing Integrated Marketing Channels and Integrated Marketing Communications	<ul style="list-style-type: none"> • Designing and managing Services • Designing and Managing Integrated Marketing Channels • Managing Retailing, Wholesaling and Logistics • Designing and Managing IMC 	20	10
V	Creating Long-term Growth and Contemporary Marketing Practices	<ul style="list-style-type: none"> • Managing Mass Communications • Managing Personal Communications • Tapping Global markets • Managing a Holistic Marketing Organization • Rural Marketing (Handouts to be distributed from contemporary literature) 	20	10
	Text Book	<ol style="list-style-type: none"> 1. 'Marketing Management: A South Asian Perspective', Kotler, Keller, Koshy and Jha, 13th Edition (Latest Ed.), Pearson Education, New Delhi. 		
	Reference Book	<ol style="list-style-type: none"> 1. 'Marketing' – Paul Baines, Chris Fill and Kelly Page, Indian edition, Oxford University Press, New Delhi. 2. 'Marketing Management – Planning, Implementation and context,' - Ramaswamy and Namakumari, 3rd Ed., Macmillan India Ltd., New Delhi. 3. 'Marketing' – Michael J. Etzel, Bruce J. Walker William J. Stanton, Tata McGraw-Hill, 13th Edition, Delhi. 		

Subject	FC208 - Environment & Disaster Management
Academic Year	2011-12 onwards
Credits	3.5
Objective	<p>To provide a comprehensive outline of the different types of Environmental hazards & Disasters and their mitigation techniques under the framework of National and International techniques.</p> <p>To provide also a detailed over-view of the emerging approaches in Disaster Reduction & Management and creation of Disaster Management Plans both in national & international level</p> <p>The emphasis will be on programmes of National & International organizations for Disaster preparedness, mitigation and awareness especially concerning port & shipping sectors</p> <p>To expose the students to get a first-hand experience in planning hazard mitigation & linkages through institutional mechanism / authorities.</p>
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Contents:

Module	Description	Content	Weight-age	Sessions
I	Introduction to Environment	<ul style="list-style-type: none"> • Introduction • Environmental Issues • Environment Impact Assessment • Introduction to the ISO 14000 • Importance of environmental compliance in port operation & setting up • Environment, Ecology and Ecosystem 	20	10
II	Type of Disaster	<ul style="list-style-type: none"> • Natural Disasters <ul style="list-style-type: none"> ○ Tsunami, Earthquakes, Volcanic, Eruptions Typhoons , Tornadoes, Cyclones, high Tides, Floods • Manmade Disasters <ul style="list-style-type: none"> ○ Chemical Disaster ○ Deliberate Terrorist attack ○ Atom Bomb ○ Hazardous chemicals/Biological / Radiological as potential weapons for the terrorists • Reasons for Disasters 	20	10

<p>III</p>	<p>Management of Disasters</p>	<ul style="list-style-type: none"> • Port Safety & disaster mitigation (planning for emergencies – trauma center etc) in Pre-disaster management • Post-disaster management • Preventive Measures at the state / Central and Individual level • Preparedness Plan and Measures needed to safe guard the health of the population • Structuring a Crisis Management Team • Role of Education and other Advocacy methods • Psychological Counseling • Spiritual Guidance and Rehabilitation Arrangement • Safety Agents • Safety Device and Controls • Disaster cum Emergency Handling Procedures • Survival skills; search and rescue; communication systems; • Sharing responsibilities, • Planning and resource mobilization. 	<p>20</p>	<p>10</p>
<p>IV</p>	<p>Laws/ Regulation Pertaining to Environment and Disaster</p>	<ul style="list-style-type: none"> • Environment Laws / Regulations • Role of Regulatory authorities in Environment and Disasters • Importance of Human Resource 	<p>20</p>	<p>10</p>
<p>V</p>	<p>Environmental / Disaster Issues related to Port and Shipping</p>	<ul style="list-style-type: none"> • Environmental Issues in Ports, Logistics & Shipping, and Coastal areas • Disasters affecting the ports, Shipping and coastal areas • Case studies involving national & international ports 	<p>20</p>	<p>10</p>
	<p>Text Book</p>	<p>1. Crisis and Disaster Management Turbulence and Aftermath by Mukhopadhyay, Asim Kumar (New Age)</p>		
	<p>Reference Book</p>	<p>1. Disaster Preparedness Against Accidents or Terrorist Attack by Ray, P. K. (New Age) 2. Bill Mc Juire, Ian Mason and C. Killburn (2002) Natural hazards and Environmental change, Oxford University Press, New York.</p>		

Subject	SC301 - Mercantile and Marine Law (M&ML)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To apply economic concepts, principles and ideas to decision making in Port Management To provide basic theories and tools of analysis and develop an understanding of the behaviour of various economic agents to help decision-making.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Contents:

Module	Description	Content	Weight-age	Sessions
I	Business and its Environment Meaning and Nature of Law	Business and its environment Legal environment of business Case study Meaning and nature of Law Classification Of Law Sources of Indian Law Mercantile (or Business) Law Basic Legal Concepts Essentials of Law	20	10
	International Contracts of Sale (INCOTERMS)	Rights and obligations of seller and purchaser under various INCO TERMS Transfer of Property in Goods Case Study		

II	Law of Contract	<p>Introduction Meaning and Essentials of a valid Contract Proposal (Or Offer) And acceptance Capacity to Contract Consent and free Consent Consideration Unlawful consideration and object Agreements Declared Void Contingent Contracts Quasi Contract Performance of Contracts Different Modes of Discharge of Contracts Remedies for Breach of Contracts Freedom to Contract Case study , Sample Contracts</p>	20	10
	Law of Torts	<p>Meaning and Scope of Torts Different Classes of Torts Torts Founded on contract General defences in an action for Tort Case Study</p>		
	Contracts of Guarantee and Indemnity	<p>Introduction Purpose and Meaning of the Contract of Guarantee Kind of Guarantees Rights and Obligations of the Creditor Rights, Liabilities and Discharge of Surety Contract of Indemnity Case Study</p>		
	Contract of Bailment and Pledge	<p>Introduction Definition of Bailment and its kinds Duties and Rights of Bailor and Bailee Termination of Bailment Finder of Lost Goods Definition of Pledge or Pawn Pledge by Non-owners Rights and duties of a Pledgor and a Pledgee Case Study</p>		

	Contract of Agency	Introduction Definition of agent and Agency Different Kind of Agencies Classification of Agents Duties and rights of Agent Principal's Duties to the Agent and his Liability to Third parties Personal Liability of Agent Termination of Agency Power of Attorney Case Study		
III	Law of Sale of Goods	Introduction Definition and Essentials of a Contract of Sale Goods & their Classification Meaning of Price Conditions and Warranties Passing of Property in Goods Transfer of Title by Non-Owners Performance of a Contract of Sale of Goods Unpaid Seller and his Rights Remedies for Breach of a Contract Sale by Auction Case Study	20	10
	Law of Carriage of Goods	Definition of a Contract of Carriage Classification of Carriers Rights , Liabilities & Duties of Shipper & Carrier Under : Indian Carriage of Goods by Sea Act Carriage of Goods by Rail Carriage of Goods by Road Carriage of Goods by Air Multimodal transportation Bill of Lading Act , Charter Party Contracts (a) Voyage Charter (b) Time Charter		
	The Consumer Protection Act	Object and Scope of the Act Definition of Terms and Concepts Rights of Consumers Nature and Scope of Remedies available to Consumers Model form of complaint Requirements of petition to be filed Case Study		

	Law of Arbitration and Conciliation	Objectives and Scope of the Act Arbitration Agreement and Arbitrators Conduct of Arbitral Proceedings Making of Arbitral Award and Termination of Proceedings Miscellaneous Provisions Enforcement of Certain Foreign Awards Conciliation Models of Arbitration Clauses Case Study		
IV	Relation between Maritime Law and Its environment and nature of Law Various Laws & Acts – in regards port operation and management (1) Indian Port Act 1908	Port & Shipping working, Applicability of various maritime laws, legal Environment and its business – <ul style="list-style-type: none"> • Meaning of General Laws & Acts and Maritime Laws • Classification of various Maritime Laws • Requirements of Laws • Usage of Laws • The Indian Port Act 1908 • The Indian Merchant Shipping Act 1958 • The Gujarat Maritime Act 1981 • The Major Port Trust Act 1963 • The Indian Motor & Vessel Act 1962 • The Indian Custom Act 1962 (Sections related to Port & Shipping Operation) • Port Declaration and Closing off • Alteration, Addition & Modification Port Limit & Port Jurisdiction • To Make Port rules • Conservator of Port & Conservancy Powers • Removal of Obstructions in Port and Shipping work and cutoff wraps and ropes • Inspection of Documents of Vessel and boarding of vessel • Damage to port assets, Navaid, Discharging Ballast • Usage of Wharps and hawsers • Inward / Outward of vessels 	20	10

	<p>(2) The Indian Merchant shipping Act 1958</p>	<ul style="list-style-type: none"> • Port Charges, Port Duos, Mooring and Unmooring, Anchorage charges • Call Sign, Identification, Hoisting of signals • Penalty for dis-obence of orders and cost of convections • Entitlement to play lawful colors and flags • Issuance of NDC & PC • Various Licenses and various agencies • Vessel and its registration, Survey, Measurement, Inspection, collision, Regulation, Free Board, Load Line, Pilmso – II • Maritime Board, Master, Port of Registry • Qualifying & Certification to master, mate, engineers etc. • Function of shipping master, sign on, sign off, articles, Crew Agreement - Its particulars & Importance • Passenger Ferry Service and safety of ship, passenger, trade certificate A & B. • Load line zone, summer zone, tropical, winter zone (Seasonal Zones) • Marine Casualty, pre-reporting, investigation, Inquiry & Submission of final report • Kind of causality and recovery damager cost, indemnity bond, bank guarantee, P & I Club • Log Book • Registration of Saving Vessels, fishing boat • Harbour Craft rules and harbour craft license along with procurement procedures. • Landing and wharfage rules landing and shipping fees, port services and important functions. 		
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	<p>(3) Major Port Trust Acts 1963 and Gujarat Maritime Board Act 1981</p>	<ul style="list-style-type: none"> • To manage, control and administer ports. • Port facilities, Infrastructure and definition. • Organizational chart and setup • Heart of the act • Status of the board/trust in the provision act • Govt. control on the board/trust • Powers for framing port charges exemption, remission, concession and its recovery • Landing Place • Approval of private jetty • Basic Port Services & Ancillary Port Services • Disposal of un removed Goods • NDC / Port Clearance • Settlement of Claim • Administrative Report & Annual Report • Framing Various Rules and Regulations 		
	<p>(4) IMV Act 1917</p>	<ul style="list-style-type: none"> • Survey • Registration • Manning • Marine Casualties • Protection and carriage of passengers in Inland steam & Vessel • Legal Proceedings and penalties • Framing of rules and regulations 		

V	<p>International Marine & Sea Transport Laws</p> <p>SOLAS 74</p>	<ol style="list-style-type: none"> 1. SOLAS – 1974, 1988, 2010, 2011 (Safety of Life at Sea) 2. ISPS Code 2002 (International Ship and port facility port) (Enforced in July, 2004). 3. MARPOL 73/78 4. IMDG Code – 1996 <ul style="list-style-type: none"> • Concept of International Convention • International Maritime Organization (IMO) as a regulating Authority • Setup of IMO & various code framed by IMO • Life saving appliances and arrangement • Certificates • Stability, Machinery & electrical installation • Fire protection fire detection and fire extinguishers • Prevention of fire and explosion – ship, cargo, crew members and passenger • Suppression of fire • Fire fighting regulations safety of navigation • Safe operation of ship 	20	10
	<p>ISPS Code 2002</p>	<p>Part A : Mandatory Part B : Guideline</p> <ul style="list-style-type: none"> • Background of Code and Aims and application • Protection of Crew Passenger, ship, cargo, Port & Ship Personnel and port management • Objective of code (Prevention from Piracy, Kidnapping, Theft etc.) • Functions of Code • RSO (Recognized Security Organization) • Responsibility of Contracting Government. • Port and Ship security 		

		<ul style="list-style-type: none"> • Port and ship security plan • Assessment, Audit, Inspection and compliance • Guideline • Security Level • Information and communications • Port and ship security assessment plan • Identification of documents • Threats to ships and other incidents at sea • Manning Level • Handling of cargo • Records • PFSO / SSO / CSO • Training, Drills and exercise • Verification and certification of ship 		
	MARPOL 73 / 78	<ul style="list-style-type: none"> • Introduced by IMO in 1973, Modified by the protocol of 1978 • Prevention of Pollution from ships • TSP Conference • Regulations (Annexure I to V) <ul style="list-style-type: none"> - Prevention of Pollution of Oil - Control of Pollution by Noxious Liquid Substance - Prevention of Pollution by Sewage • Salient features of various regulations <ul style="list-style-type: none"> - Requirement of crew - Tankers and Segregated ballast tanks (SBT) - Safety from collision or grounding by insulating the cargo. - Inspection, Certification & Periodic Survey - Reception Facilities - Prohibition of any discharge of oil or oily mixture into the sea 		
	IMDG Code – 1994	IMDG Code (International Maritime Dangerous Goods Code 1994)		

		<ul style="list-style-type: none">• Dangerous Cargo• IMS Act 1958 (Section 331 (2) definitions)• General Maritime Rules• Implied Warranty of the shipper• Hague of the Hague – Vis by rules• Hamburg or the MTOG Act• ADR / RID and IMDG Classification (9 types of class)		
	CONVENTION BY IMO	<p>International Conventions by IMO</p> <ul style="list-style-type: none">• Bill of Lading and freight• Functions and common clauses<ul style="list-style-type: none">- Evidences, Documents and Type of Freights• Various organizations<ul style="list-style-type: none">- P & I Club- BIMCO- BIFA- BSC- British Shipper Council- International Association of Classification Societies (IACS)- Institute of Chartered Ships Brokers (ICS)- IMB – International Maritime Beuro- Various International Association for Bunker, Cargo, Port & Harbour, Tanker and ships		
	GENERAL	<ul style="list-style-type: none">- Seaworthy and Un seaworthy vessel- Deviation, Limitations and liabilities of ship / cargo owners- General Average and the York Antwerp rules 1974- Collision Regulations- Maritime lien- Maritime arbitration- Maritime Cargo Claim- Piracy and overview and its- Legal aspect- Wreck and Salvage		

	Privatization & Globalization	<ul style="list-style-type: none"> - Towage - Admiralty Jurisdiction - Custom Formalities - Health Safety Regulation <p>National Policy State Policy</p> <ul style="list-style-type: none"> - Port Policy 1995 - Captive Policy 1993 - Boot Policy / Boost Policy - Boot Law - Concession Agreement - GIDB Act 1999 - Ship Building Policy 2010 		
	Terminology & Abbreviation	Various Shipping Terms, Commercial Shipping terms and its abbreviations		
	Text Book	<ol style="list-style-type: none"> 1. Mercantile LAW by S S Gulshan 2. Carriage of Goods by Sea, Air and Road by Dr. Avatar Singh 		
	Reference Book	<ol style="list-style-type: none"> 1. Various Law Books (Bare acts & commentaries) 2. Various Acts / Law Books (Bare Acts & Commentaries) on Port & Shipping Management 3. Various Code framed by IMO 4. Dictation of Shipping Terminology / Terms 		

Subject	SC302 - Project Management and Financing (PM&F)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To equip the students with entrepreneurial skills like project formulation, appraisal, evaluation, monitoring and control, etc. To understand the concepts of project planning and organization, budgeting and control, and project life cycles
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction Key areas	<ul style="list-style-type: none"> • Definition and concepts • Consequences of poor Project Management • Factors affecting success or failure of a Project. Triple constraints • VED Analysis (Vital - Scope / Cost / Time / Quality, Essential - Communications / Risk / Issues / Change Control, Desirable – Conflict / HR – Motivation / Supply Chain) • Project Life Cycle & Phases 	20	10
II	Planning and Analysis	<ul style="list-style-type: none"> • Project as Capital Budgeting decision • Phases of Capital Budgeting (Planning, Analysis, Selection, Financing, Implementation and Review) • Overview of capital budgeting • Capital allocation strategy (Concepts, models and considerations for forming strategy) • Generation of project ideas and screening • Gathering and analyzing project information • Market and demand analysis • Technical analysis • Financial Estimations and projections 	20	10
III	Selection	<ul style="list-style-type: none"> • Principles of compounding and discounting • Various investment appraisal criterias • Defining project cash flows • Concept & measurement of cost of capital 	20	10

		<ul style="list-style-type: none"> • Project risk analysis 		
IV	Financing Implementation, monitoring and Review	<ul style="list-style-type: none"> • Various sources of finance • Infrastructure financing • Concepts of Venture Capital and Private Equity • Forms of project organizations (line, staff, matrix etc) • Use of network techniques for project planning scheduling and control (Bar Charts / Gantt Charts/ CPM / PERT Concepts • Work Break-down Structure • Project life cycle • Variance analysis • Project implementation, monitoring, review and reporting 	20	10
V	Role & Responsibilities of a Project Manager	<ul style="list-style-type: none"> • HR & Motivation & Transparency in MIS • Tips for Successful Project Management / Project Scheduling • Contract Management ; Legal & Consequential Precautions • Information Technology Enabled Services (ITES) in Project Management (not for exam) • Use of MS-Excel, MS Project, Primavera etc. for Project management (not for exam) 	20	10
	Text Books:-	1. Projects by Prasanna Chandra, 7 th Edition, McGraw Hill		
	Reference Books:-	<ol style="list-style-type: none"> 1. Your Project Management Coach, Wiley Publication 2. Project Management and Appraisal, 1/e, Sitangshu Khatua – Oxford Uni. India 		

Subject	SC303 - Strategic Management in Maritime (SMM)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	The overall aim of the course is to disseminate practical knowledge and help the participants develop skills to strategically managing the maritime sector and inland waterways
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction	<ul style="list-style-type: none"> • What is a “Strategy”? What is Strategic Management? Why you need Strategic Management? • Importance & Significance of Strategic Management in Maritime. • Strategic Management usefulness as a precise & handy tool for any corporate Management to decide next course of action in near future & long term considering global competitiveness in Maritime Business. 	20	10
II	Strategic Methods	<ul style="list-style-type: none"> • How to judge the success or failure of any “Strategy” at a SEA-PORT? • Study & Understand each of the following Methods to derive Strategy <ul style="list-style-type: none"> ○ SWOT Analysis ○ TOWS Analysis ○ BCG Matrix ○ Porter’s FIVE FORCE Analysis 	20	10
III	Strategic Issues	<ul style="list-style-type: none"> • To understand how “Strategic Management Approach” can offer better solutions for long term in Maritime Business looking to complexity & security issues involved. • To understand how a dynamic Strategy Analysis can lead to Improvisation & Competitive Advantage to any Port / Logistic Company / Maritime Business. • Formulation of Strategy, Selection of Strategy, 	20	10
IV	Implementation, Monitoring & Auditing of Strategy	<ul style="list-style-type: none"> • Levels of Strategy : <ul style="list-style-type: none"> a. Corporate Strategy b. Business Strategy c. Functional Strategy • Analysis of Strategy & Effectiveness 	20	10

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		Measurement of Strategy		
V	Contemporary Issues	<ul style="list-style-type: none"> • Industry Attractiveness & Strategic Opportunity • Resources, Capabilities, Core Competence & Strategic Holistic Approach w.r.t. Maritime Business. 	20	10
	Text Books:-	1. Essentials of Strategic Management Hunger, J. David, Wheelen, Thomas L.		
	Reference Books:-	<ol style="list-style-type: none"> 1. Strategic Management by Trehan, Wiley India 2. Strategic Management Creating Value in a Turbulent World by Fitzroy, Wiley India 		

Subject	SC304 - Infrastructure Management (IM)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To expose the students to the changing scenario of infrastructural development, regulation, privatization and unbundling strategies in different sectors.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction Infrastructure Management	<ul style="list-style-type: none"> • Introduction to Infrastructure • Economic and Social Infrastructure • Infrastructure Management in Transport • Overview of status of infrastructure at national and state level • Investments in Infrastructures • Models of Infrastructure development 	20	10
II	Current Scenario	<ul style="list-style-type: none"> • Supply Gap, Infrastructure financing: Social cost Benefit Analysis • Power Sector: Power Policy, Regulation, • Transportation – Privatization of Ports, • Tools of infrastructure development IC/SEZ/LP/SIR 	20	10
III	Strategy	<ul style="list-style-type: none"> • Unbundling Strategies: Railways – BOT & BOLT Schemes, • Telecommunications Sector: Unbundling, Urban Infrastructure: Privatization, Field Study • Management of infrastructure • Procurement, Execution, Utilization, Implementation of Infrastructure for Ports 	20	10
IV	Execution and Implementation	<ul style="list-style-type: none"> • Reforms Undertaking Govt. • Privatization • Regulatory Environment • Role of Public Sector • Augmented Support Device • Tendering Process, Tender evaluation and finalization • Implementation Phase 	20	10
V	Transport Infrastructure	<ul style="list-style-type: none"> • Modern technologies for port/shipping infrastructure 	20	10

		<ul style="list-style-type: none"> • Roads • Railways • Airports • Sea Ports • Case Studies of port/shipping infrastructure • Evaluation of life and efficiency of Infrastructure • Transport Ministries in India and Issues in Coordination 		
	Text Books:-	<ol style="list-style-type: none"> 1. Infrastructure Development & Financing by Raghuram, McMillan 2. Infrastructure Management, W. Hudson, Ralph Haas, Waheed Uddin - TMH 		
	Reference Books:-	<ol style="list-style-type: none"> 1. India Infrastructure Reports, Oxford University Press 2. Committee Report on Infrastructure, Govt. of India by Rakesh Mohan 3. World Bank – World Development Report 1994 4. Urban Infrastructure and Governance by G. Ramesh, Nagadevara Naik and Anil Suraj - Routledge 5. Public-Private Partnerships by G. Ramesh, Nagadevara Naik and Anil Suraj - Routledge 		

Subject	SC305 - Shipping and Logistic Management (S&LM)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To development understanding of Shipping Concept along with turnaround time comparison with world shipping Trade
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to Shipping Practice	<ul style="list-style-type: none"> Ships- different types and size with their important features and their suitability to different cargos. 	20	10
II	Survey, Registration Authority & Documentation of Ships	<ul style="list-style-type: none"> Classification societies- Background, Function and Importance Statutory documents and different certificate 	20	10
III	Type of Vessel Usage, Agency Involved at various stage in Shipping & Port Procedure	<ul style="list-style-type: none"> Stowage factors and densities- importance in carriage of dry and liquid cargo, effect of density of water, Agents, freight forwarders, brokers and other intermediaries in shipping Structure of shipping- service of master and crew Cargo documentation- Custom house work- inward and outward entry of ship's documentation Shipping procedures of export and import of cargo 	20	10
IV	Shipping Lines, Shipping Operations & Handling of containers	<ul style="list-style-type: none"> General structure of shipping industry- liner and Tramp service Liner shipping- features , break bulk, modes of utilization, concept of intermodalism, container size and types, Identification, Construction, container terminologies, CYs, Functions of CFS/ICD, marketing of liner shipping, documentation Tramp shipping- types of charters, trip time, voyage, consecutive voyage, bareboat, contract of affreightment, features of dry bulk and tanker chartering 	20	10

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V	Container Terminals Business communication & Procedure	<ul style="list-style-type: none"> • Cargo handling equipments used on boards and shore • Business communication in shipping- letter writing, telex, fax, e-mail, report writing, memo- writing, charts and graphs 	20	10
	Text Books:-	<ol style="list-style-type: none"> 1. Elements of Shipping-A.E Branch,7th Edition 1996 2. Dictionary of shipping Terms –P.R Brodie 2nd Ed. 1996 		
	Reference Books:-	<ol style="list-style-type: none"> 1. Maritime Logistics: A Complete Guide to Effective Shipping and Port Management by Dong-Wook Song, Photis M. Panayides - Kogan Page 		

Subject	SCP301 - Port Operation and Management (PO&M)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To provide detailed understanding on Port procedures, functions Port Operation, Its Management, Port efficiency, policy and documentation process
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content

Module	Description	Content	Weight-age	Session
I	Port Administration, ownership, & Management	<ul style="list-style-type: none"> • Functions and features of ports • Types of port ownership and administration • Role of port operators • Globalization of Terminal Operators • Port Cities • Organizations concerning ports • P.M.D:- a transport centre to a logistics platform. • I.T. in logistics 	20	10
II	Port Working & Its elements	<ul style="list-style-type: none"> • General Layout of Port & Harbour • The Berth & Landing Place, Tansit & Back-up area • Stacking, Yard and gate systems • Modeling terminal operations • Types of Terminals- Integrating terminal operations • Basic & Ancillary Port Services • Berth Occupancy • Berthing Plan ,Pilotage ,inward & Outward Of Vessel • Imports / Exports Procedure & Custom Formalities • Define Types of Cargo/Container Handling Equipments <ul style="list-style-type: none"> • Cargo & Commodity • Draft Survey • Crude Oil - Source & Trades • Major Dry Bulk Commodities Movement • Principles of material handling system • Scope of work • Objectives & utility • Interface with other functions 	20	10

		<ul style="list-style-type: none"> • Equipments used in Cargo and Ship handling – Conventional, Present and future <ol style="list-style-type: none"> 1.) containerized cargo, 2.) bulk cargo, 3.) liquid Cargo • Comparative study of equipments. • Regulatory developments for handling equipments. • Need of inventory • Types of inventory • Basic EOQ Model • Analysis of cost v/s Performance system 		
III	Port operation and management	<ul style="list-style-type: none"> • Port Facilities, Infrastructures and its Optimal Utility • Berth and Berth Occupancy, Backup Area, Transit Area, • Storage Yard and Storage Plan • Cargo Clearance Formalities • Home Consumption and Cargo Delivery • Gate check & control system, <i>Weighment</i> • Modeling terminal operations Integrating terminal operations 	20	10
IV	Port Efficiency in Cargo Handling/CFS working	<ul style="list-style-type: none"> • Port Logistics • Port M.I.S. • Turnaround time in days for sailing vessels: Container-Bulk cargoes-Tankers – • Turnaround time of Container-From ship to Consignee and Vice-Versa • General operational delays & Certification <ul style="list-style-type: none"> ○ Strong Weather Conditions / Cyclones ○ Strikes ○ Waiting Period ○ Port delays(congestion) ○ Demurrage • Port Utility & productivity 	20	10

V	Port policy & Privatization modes	<ul style="list-style-type: none"> • Maritime policy • Relationship between port and state and private entrepreneurs • Port and financial assistance • Landlord vs Service Ports • Inter and Intra port competition • Port Tariff – SOPC and its Determining Factors, Relativity and Types of Charges <ul style="list-style-type: none"> - Authority for Framing and Recovery of Charges - Port charges, payments liabilities - Short / Excess Recovery & Refund <p>Mundra. Pipavav, NSICT, GTIPL etc</p>	20	10
	Port Labours & Industrial Relation	<ul style="list-style-type: none"> • Labour Laws for Port, Insurance • Union employed at port • Industrial Relation & Harmony • Labour v/s technology • Labour management –Relation and Harmony with labourer • Labour Training • Industrial Relations 		
	Text Books:-	1. Port Management and Operations, By: PATRICK ALDERTON Llyods Practical Shipping Guides		
	Reference Books:-	1. Maritime Logistics: A Complete Guide to Effective Shipping and Port Management by Dong-Wook Song, Photis M. Panayides - Kogan Page 2. Port Operations and Container Terminal Management: with applications, Evrim Ursavas Guldogan - VDM Verlag Dr. Müller		

Subject	SCP302 - Port Planning and Development (PP&D)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To provide comprehensive knowledge to innovative learning to meet current requirement in current port scenario
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content

Module	Description	Content	Weight-age	Session
I	Introduction to Port Planning	<ul style="list-style-type: none"> • Port Planning Methodology • Land Use and Physical Planning of Ports • Feasibility Study of Port Development • Factors of site Selection • Organization framework • Legal aspects of port reforms and management • Management of port operations and equipments • Port reforms/ up-gradation of port. • Financial evaluation and Benefit analysis 	20	10
II	Policies and Investment	<ul style="list-style-type: none"> • Port policy • Policy reforms and regulation system • Thrust of Five Year Plans on Ports • Structural Frame Work For Port Up gradation • Implementation of Changes in Port Management • N.M.D.P. • Centre v/s state • Port Regulation • Role of Tariff Authority for Major Ports (TAMP) 	20	10
III	Port Development for Containerization Business	<ul style="list-style-type: none"> • Trends ,Projections • Drivers • Potential in India • Hub, Feeder and transshipment • CY utility & planning/Up-gradation/ Expansion • Port Marketing, Promotion & Tariff setting 	20	10
IV	Port Development	<ul style="list-style-type: none"> • Public v/s Private Port • Corporatization of Ports • Port development-Factors/Issues and Methods • Terminal productivity, performance and 	20	10

		benchmarking • Concepts of Inland Port Development • Port Sustainability • Dynamics of Port Development • Port Evaluation/Benefit Analysis • Value added services • Challenges for Indian ports		
V	P.P.P. and Other Issues in Port	• PPP Policies • Types of concessions • Issues in Bidding • Hinterland Connectivity of Ports • Model Concession Agreements • HRM in Port Management • Slot Capacity analysis • Cooperative Model • Investments Criteria • Evaluating status of port in global scenario	20	10
	Text Books:-	1. Port operations, planning and logistics, By: KHALID BICHOU		
	Reference Books:-	1. Llyods Practical Shipping Guides Model Concession Agreements for Ports, Planning Commission 2. Report of the Task Force on financing Plan for Ports by Planning Commission		

Subject	SCP303 - Port, Safety, Security and Vessel Traffic Management System (PSS&VTMS)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To provide comprehensive understanding on Port Safety, Security and Vessel Traffic Management System
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to ISPS code	<ul style="list-style-type: none"> • General Introduction • Aims & Objectives • Functional requirements • Definitions • Application • Responsibilities & Liabilities of Contracting Governments • Declaration of Security • Obligations of the Company • RSO / CSO / SSO <p>A. Ship Security</p> <ul style="list-style-type: none"> • Ship Security Assessment (SSA) • Ship Security Plan (SSP) • Definition • Application • Obligations of Contracting Governments with respect to security & Competent Authority • Requirements for Companies and ships • Specific responsibility of Companies • Ship Security Alert System • Threats to ships • Master's discretion for ship safety • MARPOL 73 / 78 <p>B. Port Security (as per ISPS Code)</p> <ul style="list-style-type: none"> • Levels of Security • PFSA • PFS Plan • PFSO • Training, Drill & Exercise for Port facilities 	20	10

		<ul style="list-style-type: none"> • Access • Restricted Area • Cargo Handling • Deliveries of ship's stores • Monitoring of activities not covered by the code • Difference security level between port and ship 		
II	Accident & Risk Management	<ul style="list-style-type: none"> • IMDG code Requirement • Safety inspection and AUDIT • Accident investigation • Accident reports, Record and analysis 	20	10
III	Port & Dock Security Safety	<ol style="list-style-type: none"> 1. Safety at Work Place and Its Reasons 2. Humanitarian reasons Economic reasons Legal reasons 3. Elements of Safety Program 4. Duties and Responsibilities of Safety Officer 5. Duties and Responsibilities of Safety Committee 6. Steps for Safety <ul style="list-style-type: none"> • Spot the Danger • Act to Control • Prevent Recurrences • Contributing factors to unsafe acts • Safety Implementation • Guidelines for Safety Officer 7 (A) Surveillance <ul style="list-style-type: none"> • Points to Ponder • Introduction • Conventional Method • Intelligence • Investigation & Inspection • Interrogation of accused • Case Procedure FIR 7 (B) Information Security <ul style="list-style-type: none"> • Introduction • ISO – 27001 • Family of standards • Certification • Code of Practice • Implementation • Risk Assessment • Benefits • Search & Shrinkage • Search of Suspects • Pilferage 	20	10

		<ul style="list-style-type: none"> • Safety Precautions • Security Safeguard • Checklist <p>7 (C) Monitoring & Controlling Access</p> <ul style="list-style-type: none"> • Control Actions • Access Control <ul style="list-style-type: none"> - Physical - System Operation - Component - Barcode Operation - Magnetic Stripe - Wiegand Card Technology - Proximity Card Technology - Smart Card - PIN - Visitor Pass Entry System - CCTV Camera - Zooms - Lenses - Recordings Devices - Camera Switcher - Video Multiplexer - Digital Video Recorder - Network Video Server - Monitor - Lighting - Signals - Transmission - Resolution - How to choose CCTV Camera <p>8. Port Safety</p> <ul style="list-style-type: none"> - Dangerous Goods & General Fire Precautions 		
IV	VTMS	<ul style="list-style-type: none"> • VTMS Guideline & IMO Definitions – VTMS and Overview <ul style="list-style-type: none"> - Competent Authority - VTMS Authority & Its responsibilities and Liabilities - VTMS Area & application there to • Functions of VTMS • Classifications of VTMS • VTS, VTMS, VTMS • Functions of VTMS (Information, Navigation, Traffic organization) • Classification of VTMS • Elements of VTMS • Vessel Traffic & Port Management Systems (VTPMS) • VTMS Organization • Components of VTMS 	20	10

		<ul style="list-style-type: none"> • VTMS Planning & Implementation – as per IMO Guidelines • Competent Authority • Equipments & its specifications • Radar System • AIS • Communication Link & Its advantage in IT (ERP / ROI) • Reporting & Audit Ready • Environment Protection • VHF Direction Finder • VHF Link / Customer Relation Focus • Meteorological and Hydrological Equipments • Tracking and warning system (TWS) for Fishing Boats & Fishermen * • AIS Network system • High Quality Radar and microwave based systems • Computer based voyage data recorder • Harbors & coastal surveillance System • Manning of VTS and Training • IMO, IALA, DGSS guidelines • Use of VTS for security of coastline • VTS Gulf of Khambhat and VTS- Gulf of Kutchh Project • Other important VTMS in the Country and around the world • Offshore Collision Avoidance, Safety & Security Systems * • Sea Surface & Under Water Surveillance Systems • Coastal Patrolling • Border Security & Surveillance Systems * • Management Information System * Next Generation Maritime Solutions through C-Scope Product Family * 		
V	Defence Mechanism	<ul style="list-style-type: none"> • Air Defence • Systems • Coast Guard, its duties and function for security • Army Command and Control Information Systems • Defence Communications • Missile Systems • Naval Systems • Simulation and Training 	20	10

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	Text Books:-	<ol style="list-style-type: none"> 1. Port Security Management by Kenneth Christopher – Auerbach Publication 2. Port Operations ,Planning and logistics By: KHALID BICHOU 		
	Reference Books:-	<ol style="list-style-type: none"> 1. Maritime Security: An Introduction by Michael McNicholas - Butterworth-Heinemann 2. Llyods Practical Shipping Guides, ISPC Code 2003, SOLAS 74, IMDG Code 1994, Various Notifications of Government of India 		

Subject	SCS301 - Logistics and Supply Chain Management (L&SCM)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	This course enables you to develop knowledge, skills and competencies in the field of logistics and supply chain management which will assist you in the management of resources, processes and people.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to logistics and supply chain management	<ul style="list-style-type: none"> • Understanding the supply chain and logistics • Supply chain and logistics performance • Supply chain and logistics drivers and metrics. • International Logistics Management • Logistics Management and Operations • Hazardous Materials Management • Hazardous Material Transportation 	20	10
II	Strategic importance of supply chain	<ul style="list-style-type: none"> • Designing distribution networks and application to e-business • Network design in supply chain • Network design in uncertain environment • Transportation in supply chain 	20	10
III	Planning and managing inventory in supply chain	<ul style="list-style-type: none"> • Managing economics of scale in a supply chain: cycle inventory • Managing uncertainty in supply chain: safety inventory • Determining the optimal level of product availability 	20	10
IV	Logistics modes and services	<ul style="list-style-type: none"> • Third Party Logistics (3PL) Resources • Air Cargo Resources • Chemical Logistics Resources • Education & Career Resources • Forklift Resources • Logistics IT Resources • Ocean/Intermodal Resources • Trucking Resources • Warehousing Resources 	20	10
V	Case Study on Logistics	<ul style="list-style-type: none"> • Distribution resource planning (chemical india ltd.) • Logistics vis-a vis supply chain management- the link(case of laxmi transporters) • Strategic importance of logistics 	20	10

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	Text Books:-	<ol style="list-style-type: none"> 1. Supply Chain Management: Sunil Chopra ,Peter Meindl 2. Supply Chain Management: Theories and Practices by Mohanty R. P Deshmukh S. G. (Biztantra) 		
	Reference Books:-	<ol style="list-style-type: none"> 1. Supply Chain Management: Text & Cases by Shah Janat (Pearson) 2. Logistics and Supply Chain Management by Martin Christopher – FT Press 		

Subject	SCS302 - Line Trade and Multi Modal Transport (LT&MMT)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To emphasize the need for LT & MMT in solving LSCM problems. To impart learning about concepts involved in LT & MMT. To familiarize the students with liners, vessels, cargos, MMT etc.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Trade Finance & Logistics Operations	<ul style="list-style-type: none"> • International Trade Operations • Physical & Financial Supply Chain Synchronization • Logistics/SEM and Cost Optimization • Responsiveness Drivers in Logistics/Supply Chain • Role of IT in Logistics/Supply Chain • Documentary Framework • Role and Type of Documents • International Trading Practices (INCOTERMS 2000) INCO 2008 • Salient Features of an Export Contract • Methods of Financing Global Trade • Letter of Credit (UCP 600) • Customs Clearance and EDI • Trade Facilitation in Global Trade 	20	10
II	Foreign Trade Policy	<ul style="list-style-type: none"> • Theories of Trade • Trade Flows & Economic Growth • Globalization & Trade • Global Trade: Growth & Perspective • WTO: Multilateral Trade Forum • India's Foreign Trade: Growth & Potential • India's Foreign Trade Policy 2009-14 <ul style="list-style-type: none"> ○ A Broad Outline ○ Strategy & Objective ○ EDI Measures • Export Promotion Measures • Export Promotion Capital Goods Scheme • Special Economic Zones • Free Trade Warehousing Zones 	20	10
III	International Trade Logistics	<ul style="list-style-type: none"> • Origin and Growth • Critical Role and Importance • Integrated Logistics Management • Logistics Outsourcing 	20	10

		<ul style="list-style-type: none"> • Logistics Infrastructure • Warehousing Networks • Cold Chain Logistics • Packaging Infrastructure • Communication: Changing Face of Logistics • Indian Logistics Landscape • Global Trade Logistics (WB Report) 		
IV	Transportation Logistics	<ul style="list-style-type: none"> • Modes of Transportation • Logistics Efficiency Productivity of Each Mode • Logistics Decisions and Selection Mode • Road Transportation • Aviation Logistics • Rail Logistics (details to be covered) • Containerization: Role and Perspective • Role of CONCOR – <i>duplicated</i> (Rather one can look forward to Rail Freight carriers – including private) • Global Trends in Containerization • Multimodalism • Indian Scenario • Current Issues & Developments 	20	10
V	Maritime Logistics	<ul style="list-style-type: none"> • Logistics Intermediaries in Maritime Transport • Development of Global Shipping • Organizations of Global Shipping Services • Chartering & Liner Shipping • Shipping & Ports: Role/Growth • Modes of Water Transport • Global Maritime Transport: UNCTAD Report 2009 • Current Issues & Developments 	20	10
	Text Books:-	1. A text book on container and multimodal transport management by K. V. Hariharan – Shroff Publisher		
	Reference Books:-	<ol style="list-style-type: none"> 1. Improvement of Transport and Logistics Facilities to Expand Port Hinterlands: Policy Guidelines, United Nation 2. Ten Keys to global logistics by Red Prairie 		

Subject	SCS303 - Chartering and Chartering Practice (C&CP)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To understand the knowledge in chartering and operations of ships. The practical and business use of charter parties, contracts of affreightment, voyage calculation, stowage planning, post fixture management, procurement, documentation and accounting.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Chartering Introduction	<ul style="list-style-type: none"> 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 Abbreviations and other chartering terms and definitions 	20	10
II	Chartering contracts	<ul style="list-style-type: none"> Voyage, time, bareboat-cum-demise charters; contract of affreightment; different standard charter party forms for dry cargo and tankers and their salient features. Chartering market practice -- Offer, counter offer, negotiations, finalization of fixture; explanation of abbreviated fixture reports in simple language. 		
III	Dry Cargo Chartering	<ul style="list-style-type: none"> Lay time calculations -- Types of Lay time; importance of Notice of Readiness; commencement and termination of time; detailed knowledge of statement of facts and time sheets; calculation of demurrage and dispatch; charter party Lay time definitions. Voyage estimates and calculations; stowage and loading zones. Financial aspects of chartering contracts (voyage and time) -- freight and hire calculations and payment methods. Post-fixture aspects of chartering. NYPE Inter-Club Agreement, 1996. 	20	10

		<ul style="list-style-type: none"> Charter party disputes: Voyage Charters -- arrived ship; Lay time calculations; Deductions from freight; excepted periods. Time Charters -- off-hire periods; final voyage; payment of hire; bunkers; performance clauses. Frustration of charter party 		
IV	Tanker Chartering	<ul style="list-style-type: none"> Crude oil and various types of products and their movement; oil terminals. Oil Transportation -- Indian scene Technical aspects of tanker operations -- cleaning of tanks; heating; inert gas system; crude oil washing; clean ballast tanks; segregated ballast tanks; double hull, etc. 	20	10
IV	Chartering markets --	<ul style="list-style-type: none"> Oil majors and traders; importance of OPEC; role of INTERTANKO and OCIMF. Lay time calculations -- types of Lay time; importance of Notice of Readiness; commencement and termination of time; calculation of demurrage. World scale; voyage estimates and calculations. AFRA. Post-fixture aspects of chartering. Charter party disputes: Voyage Charters -- arrived ship; Lay time calculations; Deductions from freight; excepted periods. Time Charters -- off-hire periods; final voyage; payments of hire; bunkers; performance clauses Oil transportation -- losses and claims Do's and don'ts of a chartering manager 	20	10
	Text Books:-	<ol style="list-style-type: none"> Charter Party – Capt. D Driver and Edition (Navneet) Shipping and charter practice-Gorton Idhre \$th edition 1995 		
	Reference Books:-	<ol style="list-style-type: none"> Chartering and Shipping Terms , Barker & Howard Chartering practice: Analyses of charter parties, J Bes - Barker & Howard Chartering Practice Handbook by Thomas Pagonis 		

Subject	SCC301 - Coastal Eco-system, Bio Diversity and Management (CEB&M)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	The course that focused on the development and implementation of ecosystem approaches to the management of human activities and their impacts on the coastal and marine environment. To provide the necessary tools and skills to develop and implement ecosystem approaches to the management of activities in the marine and coastal environment
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to Coastal Management	<ul style="list-style-type: none"> • Working Definition of Coastal Zone • Estimating Area and Length of Coastal Zones • Characterizing the Natural Coastal Features • Extent and Change in Area of Selected Coastal Ecosystem Types • Human Modification of Coastal Ecosystems • Information Status and Needs 	20	10
II	Eco-system	<ul style="list-style-type: none"> • Eco-system approach and planning and Management of Marine Environment • Introduction to Mangroves • Introduction to Sea grass Ecosystems • Threats to Sea grass and Mangrove Ecosystems • Marine planning and management to eco-system goods and services • Introduction to Ecotourism • Effectiveness of Ecotourism 	20	10
III	Human Dimensions of Marine & Coastal Ecosystems	<ul style="list-style-type: none"> • Introduction to Fisheries • Environmental Impacts of Fishing • Fisheries: Artisanal fisheries • Fisheries: Commercial fisheries • Towards Sustainable Fisheries Management • Introduction to Aquaculture • Environmental Impacts of Aquaculture • Towards Sustainable Aquaculture 	20	10

		<ul style="list-style-type: none"> • Introduction to Climate Change • Implications of Climate Change for the Marine Environment • Tourism in the Coastal & Marine environment • Socio-economic considerations & introduction to research techniques 		
IV	Bio-diversity	<ul style="list-style-type: none"> • Introduction to Biodiversity • Importance of Biodiversity • Diversity of Coastal Ecosystems • Condition of Coastal and Marine Biodiversity • Capacity of Coastal Ecosystems to Sustain Biodiversity • Biodiversity in the context of ecosystem function 	20	10
V	Monitoring Methods in Marine and Coastal Ecosystems	<ul style="list-style-type: none"> • Socio-economic monitoring • Coral Reef Monitoring • Mangrove Monitoring • Sea grass Monitoring 	20	10
	Text Books:-	<ol style="list-style-type: none"> 1. Integrated Coastal Zone Management by Erlend Moksness, Josianne G. Støttrup, Wiley publisher. 2. Marine Biodiversity and Ecosystem Functioning: Frameworks, methodologies, and integration, Martin Solan, David Peterson by Oxford University 		
	Reference Books:-	<ol style="list-style-type: none"> 1. The Ecosystem Approach to Marine Planning and Management Sue Kidd, Andy Plater, Chris Frid 2. Biodiversity of Coasts by Greg Prays Marshall Cavendish Children's Books 3. "Sue Kidd: The Ecosystem approach to marine planning & Management" by Earthscan 		

Subject	SCC302 - Coastal Shipping, Security and Safety Management (CSS&SM)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	To providing guidance on the development of Coastal Security To understand the coastal Shipping, Security, Safety related Issues and Management laws of sea and their policy.
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to Coastal Shipping	<ul style="list-style-type: none"> • Importance of Coastal Shipping • Introduction to Different coastal shipping acts. • Status of coastal shipping in different states of India • Shipping Cycle 	20	10
II	Issues relating to coastal shipping	<ul style="list-style-type: none"> • Marketing of ecotourism • Displacement of human habitant • Coastal regulation zone management • Role of Regulatory authorities 	20	10
III	Coastal Security Issues	<ul style="list-style-type: none"> • Defining Coastal security • Coastal Security and the law of the sea and land • Support of International agency in Coastal Security • Regulation on Coastal Security • Challenges and issues pertaining to costal security 	20	10
IV	Coastal Safety Management	<ul style="list-style-type: none"> • Coastal Risk Assessment • Coastal public safety guideline • Regulations • Monitoring and management system • Introduction to Coastal public rescue equipment 	20	10
V	Integrated Coastal Zone Management	<ul style="list-style-type: none"> • Introduction to Integrated coastal zone management (ICZM) • Regulations regarding ICZM • Issues and challenges of ICZM • Implementation and Monitoring of ICZM scheme 	20	10

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	Text Books:-	1. Integrated Coastal Zone Management by Erlend Moksness, Josianne G. Støttrup, By Wiley.		
	Reference Books:-	1. Maritime Security: An Introduction by Michael McNicholas - Butterworth-Heinemann. 2. An Introduction to Coastal Zone Management, Timothy Beatley, David Brower –Island Press		

Subject	SCC303 - Coastal Resource Management and GIS (CRM&GIS)
Academic Year	2011-12 Onwards
Credits	3.5
Objective	<p>The student shall be able to understand the coastal processes, coastal dynamics and impacts of structures like docks, harbours and quays leading to simple management perspectives along the coastal zone.</p> <p>The course would provide an insight into the various coastal resources, multi user issues and anthropogenic effects on the resources.</p> <p>The students will be enabled to devise coastal resource management plans.</p>
Total Hours	50+2 hours (3.5 hours of classroom + 0.5 remedial per week = 4 hours per week)
Instructor	

Course Content:

Module	Description	Content	Weight-age	Session
I	Introduction to Coastal Resources	<ul style="list-style-type: none"> Coastal zone – Coastal zone regulations – Beach profile – Surf zone – Off shore – Coastal waters – Estuaries – Wet lands and Lagoons – Living resources – Non living resources Coastal ecosystems – natural process, coastal evolution, resiliency and health 	20	10
II	Coastal zone fisheries	<ul style="list-style-type: none"> Small-scale fisheries (pelagics, demersal and shrimps) by traditional/marginal fishing communities Coastal tourism: beach resorts, restaurants and parks within the coastal zone as per existing rules and regulations 	20	10
III	Global Change Biology	<ul style="list-style-type: none"> Global climate change, sea level rise and coastal adaptive management Evaluation and monitoring of CZM - Indicators (local, regional and global) Fisheries issues & Sustainable aquaculture – case studies & step by step solution Issues on Regional and Global Coastal Management 	20	10
IV	Regulatory and developmental issues	<ul style="list-style-type: none"> Central and State Coastal Management Law and Policies Legal proceedings / implementation for protection of exploited and 	20	10

		<p>endangered coastal resources</p> <ul style="list-style-type: none"> • Management needs for aquaculture development; • Coastal Regulation Zone (CRZ) in the context of aquaculture • International Law of the Sea: Historical perspectives; international negotiations and settlements over open seas 		
V	Coastal Resource Management and Geographical Information System (GIS)	<ul style="list-style-type: none"> • Basic terms and concepts; Electromagnetic radiation and its properties, atmospheric interactions, target interactions • Sensor platforms – boats, balloons, air-crafts and satellites, Sensor systems – global acquisition systems and sequential acquisition systems • Environmental satellites – The Landsat series, NOAA & IRS; Digital image processing and interpretation; Elements of GIS, Application of remote sensing and GIS to fisheries and aquaculture planning and development 	20	10
	Text Books:-	<ol style="list-style-type: none"> 1. GIS for Coastal Zone Management, Darius Bartlett, Jennifer Smith – CRC Press 2. Coastal Zone Management. T. Beatley, D.J. Brower, and A.K. Schwab, Island Press. 2002 		
	Reference Books:-	<ol style="list-style-type: none"> 1. Dwivedi, S.N., Natarajan, R and Ramachandran, S., “Coastal Zone Management in Tamilnadu” 2. Viles, Heather and Tom Spencer, Coastal Problems Geomorphology, Ecology and Society at the Coast. John Wiley and Sons 		

Subject	LTP - On-site Project Training / On Job Training 4 to 5 Months (Long Term)
Academic Year	2011-12 Onwards
Credits	10
Objective	To expose the students to port and logistic or allied institution to get hands on experience to different technical, functional and managerial aspects of maritime industry.
Total Hours	162 hours Onsite
Instructor	

STRUCTURE OF THE PROJECT WORK DURING SEM-IV OF MBA (MM)

Basically it is expected that students must get the actual operational and applied experience during the project period so as to make them familiar with the working environment of prospective organizations they are likely to join after the completion of their course.

During the project following stages are expected

- 1 Understanding of the organizational set up and its key functional areas.
- 2 Applying any two concepts of port management/shipping/logistics/Costal in the activities carried out by the organization (To be decided in consultation with Faculty at the time of project commencement).
- 3 Collection of relevant data/ analysis/graphical presentation/inferences/conclusions and recommendations with respect to subject chosen as in 2 above.(To be finalized in consultation of the faculty in last fortnight of training period)
- 4 Submission and presentation of report and *viva-voce*

Broadly the evaluation will be carried out in the following aspects and their tentative weight-age.

The details are provided in the section of evaluation pattern.

1 Understanding of concept and its application	30%
2 Analysis and inferences	30%
3 Presentation and <i>viva-voce</i>	40%

Faculties shall identify and make available the tentative list of concepts/subjects of likely studies that can be taken up at least a month before the commencement of project training if possible.

SIP - GUIDELINES FOR SUMMER INTERNSHIP PLACEMENT

Summer placement (summer internship programme, i.e., now popularly known as **SIP**), is an integral part of the academic curriculum of MBA Maritime Management. For the successful completion of the MBA programme, the students are required to complete the SIP. After completion of the 1st year of the programme, i.e., after the 2nd semester and before the commencement of the second year of the programme, the students are required to work with an organisation for hands on experience. The duration of the SIP is six to eight weeks. In some cases this period may be a little longer, but in no case the duration should be more than 10 weeks.

SIP aims at widening the student's perspective by providing an exposure to real life organisational and environmental situations in Maritime Industries. This will enable the students to explore an industry/organisation, build a relationship with a prospective employer, or simply hone their skills in a familiar field. SIP also provides invaluable knowledge and networking experience to the students. During the internship, the student has the chance to put whatever he/she learned in the 1st year of MBA Maritime into practice while working on a business plan or trying out a new industry, job function or organisation.

The organisation, in turn, benefits from the objective and unbiased perspective the student provides based on concepts and skills imbibed in the first year at the MBA institute. The summer interns also serve as unofficial spokespersons of the organisation and help in image building on campus.

In case the scope of the project is large, even more than one student also can undertake the SIP project jointly. Similarly, if the scope of the project is limited, the student can undertake more than one project during the specified period with the same organisation or with another organisation.

An additional benefit that organisations may derive is the unique opportunity to evaluate the student from a long-term perspective. Thus the SIP can become a gateway for final placement of the student.

The student should ensure that the data and other information used in the study report is obtained with the permission of the institution concerned. The students should also behave ethically and honestly with the organisation.

The SIP process involves working under the mentorship of an executive of the concerned organisation and also with a faculty member of the institute where the student is studying, if required. The student is expected to first understand the organisation and its setting and the industry/field in which the organisation is operating. Thereafter, the student is expected to concentrate on the specific topic of study, its objectives, its rationale, and adopt a methodology and identify a suitable analysis procedure for the completion of the study. Wherever possible the student may provide recommendations and action plans, along with the findings of the study.

Thereafter, the student should prepare a report and submit one copy to the organisation and one copy each to the institute and the university. The student should also obtain a certificate from the organisation/s where the SIP was done and attach the same with the copy submitted to the institute.

The university will arrange for evaluation of the SIP reports submitted by the students. For the purpose, the university will nominate one faculty from outside the institute and two faculty members from the institute who will be the examiners. The student/s is/are expected to make a 15 minute presentation before the examiners regarding the SIP project work undertaken, which will be followed by questions by the examiners.

The total marks for the SIP project will be 100. The marks will be awarded for the following aspects:

- i) **Introduction:** Clear understanding of the topic/subject; understanding of the organisation/unit/field.
- ii) **Literature Review:** Published studies, review of similar studies
- iii) **Details about the study:** Objectives, formulation of the problem, scope, and rationale of the study.
- iv) **Methods/methodology adopted for the study:** Analytical, Survey, Field Work or any other method with appropriate justification and reasoning.
- v) **Analysis and conclusions:** The logic of analysis, source of data, whether the conclusions are in line with the objectives, etc.
- vi) **Contribution and learning from the project:** Details of the contribution of the study,, the benefits to the organisation, the learning from the study for the student, etc.
- vii) **Acknowledgements:** References/Citations and Bibliography and help, if any,, received from other individuals/organisations.
- viii) **Presentation of the report, format of the report, flow of the report, style, language, etc.**
- ix) **Presentation of the report to the examiners:** Substance and treatment of the topic, style of presentation, performance in the question answer session, time management, language, etc.
- x) **Overall impression.**

Note: *Similar Guidelines as mentioned for summer internship placement (SIP) will be applicable for long-term project (LTP) on-site/ on job training during the semester IV of the programme.*

GUJARAT UNIVERSITY
B. K. SCHOOL OF BUSINESS MANAGEMENT
MBA IN MARITIME MANAGEMENT (EVALUATION PATTERN)

(The University Examinations for all the semester will be held only once a year. The examinations for semester I and III will be normally held in the month December / January. The semester II will be held in May / June. The Semester IV examination (Presentation and VIVA-VOCE) will be after the completion of the onsite long term training of 4-6 months.)

1. Evaluation of the course

The evaluation will be totally internal and will be conducted by the faculty who are teaching the subjects as this is a unique course and it will be difficult to get outside experts for evaluation. The grading system will be followed for the purpose, minimum requirement of attendance, etc., are given below:

2. Grading Point

The evaluation will be done on the grading pattern. The idea of the evaluation is to help the students perform better.

Grade	A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
Meaning	4.3	4	3.7	3.3	3	2.7	2.3	2	1.7	1.3	1	0.7	0

3. Meaning of Grades

- A : Excellent
- B : Good
- C : Fair
- D : Poor
- F : Fail
- I : Incomplete

+ & - : These symbols indicates the variations above & below the above description.

Total grade point is calculated by adding the grade points obtained in various courses.

$$\text{GPA} = \frac{\sum xiwi}{\sum wi}$$

Grade Point Average: (GPA): G.P.A is calculated by dividing the total grade point by number of credits.

4. Absenting from examination:

- a) It will be compulsory for every student to appear in the university exam for all the courses in every semester. In case a student fails to attempt any one or more university examination, he/she will be given “I” in that component of the course, which may be converted into “F” for calculation of grade point of that subject/course.
- b) If a student fails to appear in the mid-semester examination he/she may be given one more chance by the concerned faculty/Director by a make-up examination. However, in the make-up examination the maximum grade awarded will be “C”. This clause is put to discourage the students from absenting from the mid-semester examination.
- c) If a student has not been able to complete any course (internal or continuous component), he/she will be given “I” grade, implying incomplete. The “I” grade will have to be removed by completing the course requirements within a specified time period allotted by the faculty concerned. If this is not done, the student will be treated as failed in that component of the course and will be given an “F” in that component.

5. Equivalence between grade and Grade Point

Tentative Guideline regarding equivalence between Grade, Grade Point and Marks are given hereunder. How ever faculty member can design grading system based on the performance of the students.

GPA	Marks (Out of 100)	Grade
≥ 4.16	≥ 75	A+
3.86 - 4.15	≥ 70 & < 75	A
3.51 - 3.85	≥ 65 & < 70	A-
3.16 - 3.50	≥ 60 & < 65	B+
2.86 - 3.15	≥ 55 & < 60	B
2.51 - 2.85	≥ 50 & < 55	B-
2.16 - 2.50	≥ 48 & < 50	C+
1.86 - 2.15	≥ 45 & < 48	C
1.51 - 1.85	≥ 40 & < 45	C-
1.16 - 1.50	≥ 35 & < 40	D+
0.86 - 1.15	≥ 30 & < 35	D
0.5 - 0.85	≥ 20 & < 30	D-
less than 0.5	< 20	F

6. Equivalence among class, grade, GPA

Second Class ($\geq 50\%$) → (B- If GPA=2.51-2.85)

Higher Second Class ($\geq 55\%$) → (B If GPA=2.86-3.15)

First Class ($\geq 60\%$) → (A- If GPA=3.51-3.85), (B+ If GPA=3.16-3.50)

First Class with Distinction ($\geq 70\%$) → (A+ If GPA ≥ 4.16), (A If GPA=3.86-4.15)

7. Passing a Semester

To pass any semester of the year the student should fill the following condition:

- i. Should obtain Grade Point Average of 2.
- ii. Should not obtain more than one 'F' in a year including external and internal grades taken together.
- iii. Should not obtain 'D' in more than four courses, provided he/she does not get 'F' in any course in the year including external and internal grades taken together. ("+" and "-" of "D" will be treated as "D").
- iv. Should not obtain 'D' in more than two courses if he/she obtains 'F' in one course in the year including external and internal grades taken together. ("+" and "-" of "D" will be treated as "D").

If a student fails in a semester he/she will have to re-appear for all those courses of that semester where the grades are less than C only in the internal examinations. and he/she should cover-up the short fall by appearing in internal examinations. For this the student will have to fill-up the examination form for that semester and pay the fees for the exams.

8. Year-wise Promotion

Passing Criteria for 1st year of MBA in Maritime Management:

1. Minimum G.P.A. required: 2.00
2. Should not obtain more than one 'F' in any course.
3. Should not obtain more than four 'D' without 'F'
4. Should not obtain more than two 'D' with 'F'
5. There should be no 'I' (Incomplete) in any of the course.

9. Award of Degree

Passing Criteria for 2nd year of MBA in Maritime Management:

1. Minimum G.P.A. required: 2.00
2. Should not obtain more than one 'F' in any course
3. Should not obtain more than three D without F
4. Should not obtain more than two D with F
5. There should be no 'I' (Incomplete) in any of the courses

10. Examination Pattern:

There are Two semesters in each year duration 15 weeks of teaching.

There will be two exams in each semester : 1. Mid Semester Exam

2. End Semester / Uni. Exam

Details of each exam:

MID SEM EXAM	INTERNAL EVALUATION	END SEM EXAM
a. Duration of the exam : 2hrs b. Total marks evaluated: Out of 50 c. Marks carried forward to final result : Out of 30	Internal Evaluation is done on class-room presentation, Quiz, class test, attendance etc., Total internal evaluation carried forward to final result : Out of 30	a. Duration of the exam : 3 hrs b. Total marks evaluated : out of 70 c. Marks carried forward to final result : out of 40

Evaluation of Summer Internship Project (SIP):

Project work at the end of 1st year: Summer Project.

Duration: 8 – 10 weeks

Evaluation: Presentation and Viva-voce out of 50 marks (By a committee appointed by the university) and project report (By examiner/School) out of 50 marks.

Evaluation of Long Term Project (LTP):

Project Study (P.S.) on-site training / on job training in the Last and Fourth semester of the programme:

Duration: Starting of Fourth semester minimum 12 weeks (Max 16 weeks) consisting of work related to port / shipping / logistics / coastal resources / allied industries understanding, analyzing, issues and working on a specific maritime related project on site and preparation of report. (Data collection, field work, analysis, report writing etc.)

Evaluation: Presentation and Viva-voce out of 50 marks (By a committee appointed by the university) and project report (By examiner/School) out of 50 marks.