



Department of Marine Engineering	LP: MR18007
B.E./B.Tech/M.E/M.Tech : Marine Engineering Regulation:2018	Rev. No: 00
PG Specialisation : Not Applicable	Date: 13.07.2021
Sub. Code / Sub. Name : MR18007 / Marine management and IMO Requirements	
Unit : 1	

Unit Syllabus: Structure of Shipping Company: Structure of a shipping company and functioning of its various departments, Ownership of vessels, registration of Ships, flags of convenience, IMO Identification Number, Maritime Declaration of Health and the requirements of the International Health Regulations

Objective: To learn about a shipping company, its administration. Also to learn about registration of Ships and Flags of convenience and International Health Regulations.

Session No *	Topics to be covered	Ref	Teaching Aids
1.	Types of Marine vessels & cargo	1-109	PPT/Notes/BB
2.	Ownership of vessels, Registration	1-90, 3-26	PPT/Notes/BB
3.	Flags of convenience	3-32, 33 R10:145	PPT/Notes/BB
4.	IMO Ship identification Number scheme	1-1	PPT/Notes/BB
5.	Shipping company – Profile and Structure Maritime Declarations	3-74 to 87	PPT/Notes/BB
6.	Maritime Declarations and Health and the requirements of the International Health Regulations	3-74 to 87	PPT/Notes/BB
7.	Builder certificate, carving note,	3-74 to 87	PPT/Notes/BB
8.	certificate of survey, Certificate of registry	3-74 to 87	PPT/Notes/BB
9.	Revision	3-74 to 87	PPT/Notes/BB

Content beyond syllabus covered (if any):

Shipping companies in India.

* Session duration: 50 minutes



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Unit : II

Unit Syllabus : Commercial shipping practice: Planning sailing schedules, and Voyage estimates, liner and tramp shipping services, conference systems chartering and charter parties, ships' papers for arrival and departure, port procedures, role of agents, theory of freight rates, bills of lading, pilotage, cargo surveys and note of protests, International Labour Organization (ILO) and Maritime Labour Convention, 20016, COLREG 1972.

Objective: To learn and understand ship operations, to plan sailing schedules, to prepare voyage estimate etc., Also learn about, port procedures, chartering, cargo surveys, MLC 2006 and COLREG 1972, etc.,

Session No *	Topics to be covered	Ref	Teaching Aid
10.	Voyage estimates Bunker calculations, Port charges and Cargo charges	1-96	PPT/Notes/BE
11.	Conference Systems	1-6,7	PPT/Notes/BE
12.	Time charter, Voyage charter, Bareboat charter	1-29	PPT/Notes/BE
13.	Theory of freight rate & fares	1-51	PPT/Notes/BE
14.	Bills of lading	1-16	PPT/Notes/BE
15.	ILO and MLC 2006	R11-480	PPT/Notes/BE
16.	COLREG 1972	R11-475	PPT/Notes/BE
17.	On hire & Offhire surveys, Note of protest	3-130	PPT/Notes/BE
18.	Revision		PPT/Notes/BE
Content beyond syllabus covered (if any):			
Case studies as applicable			

* Session duration: 50 mins



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Unit : III

Unit Syllabus : Marine Insurance: Underwriting and loss adjusting principles applied to Marine cargo insurance, hull/machinery policy, particular average, general average, P&I clubs, making claims.

Objective: To learn about marine Insurance, Particular average, General average, Loss adjustment in Shipping if calamities experienced.

Session No *	Topics to be covered	Ref	Teaching Aids
19.	Marine Insurance	R10:45-58	PPT/Notes/BB
20.	Underwriting and loss adjusting principles as applied to Marine Industry	R10:45-58	PPT/Notes/BB
21.	Hull/Machinery Policy	R10:45-58	PPT/Notes/BB
22.	Particular average	R10:45-58	PPT/Notes/BB
23.	Particular average-case study	R10:45-58	PPT/Notes/BB
24.	General Average	1-60	PPT/Notes/BB
25.	P&I clubs	1-126	PPT/Notes/BB
26.	P&I clubs-case study	1-126	PPT/Notes/BB
27.	Revision		PPT/Notes/BB

Content beyond syllabus covered (if any):

Case studies P and I Club

* Session duration: 50 mins



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Unit : IV

Unit Syllabus : Statutory Regulations: IMO conventions, legislations. MARPOL acts and conventions, Annexes-I to VI, SOLAS 1974 and amendments, main objectives, overview of all chapters and articles with an emphasis on ISM and ISPS codes, Maritime security policy, security responsibilities, vessel security assessment, security equipment, threat identification vessel security actions and security administration. Load lines Convention 1966, Tonnage Convention 1969. Responsibilities under International Instruments affecting the safety of the ships, Passengers, Crew or Cargo, Ballast Water Management.

Objective: To learn and understand IMO conventions, MARPOL Annexes, SOLAS 1974 and amendments, ISM, ISPS ,OPA90 and Ballast water management.

Session No *	Topics to be covered	Ref	Teaching A
28.	IMO, committees & Utility, legislations, SOLAS, Chapter 1- General Provisions & Chapter 2- FFA	R9:6 to8	PPT/Notes
29.	Chapter 3- LSA Chapter 4- Radio telegraphy & Radio telephone	R-2, R938 to 49	PPT/Notes
30.	Chapter 5- Safety of Navigation Chapter 6- Carriage of Grain	R-2,R938 to 49	PPT/Notes
31.	Chapter 7-Carriage of Dangerous Goods Chapter- 8 Nuclear ship's certificates Chapter 9 Management for the safe operation of Ships	R-2,R938 to 49	PPT/Notes
32.	Chapter 10 Safety measures for High-Speed crafts Chapter 11-I Special measures to enhance maritime safety Chapter 12 Additional measures for Bulk carriers	R-7;151-164 R9:50 to 59	PPT/Notes
33.	ISM, ISPS codes		
34.	Vessel Security Assessment, Threat Identification and security actions etc	R8	PPT/Notes
35.	Load lines Convention 1966, Tonnage Convention 1969, Ballast water management	RI 1-473/474	PPT/Notes
36.	MARPOL, MARPOL new regulation on 0.5% Sulphur 2020	R9;59	PPT/Notes
Content beyond syllabus covered (if any):			
Case studies as applicable		R-3,R9;18-35	PPT/Notes



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Unit : V

Unit Syllabus : STCW: International convention on STCW for seafarers 1978 with 1995 amendments, an overview of all sections, manning of ships, engagement and discharge of ship's crew, Ship's articles, Merchant Shipping Act, Role of Maritime administration (DGS) and its functions: DGS Rules and MS Notices Port state control, PSC mandatory certificate checklist, Grounds for PSC inspection criteria for detention. Emergency Preparedness, drills and exercises, ERM (Engine Room Resource Management)

Objective: : To learn and understand STCW 1978/1995 ,MS Act and Port State control inspection .clear grounds etc., Also learn role of Maritime organizations, Emer Emergency Preparedness, drills and exercises, ERM (Engine Room Resource Management)

Session No *	Topics to be covered	Ref	Teaching Aids
37.	International convention on STCW for seafarers, General Provisions-Regulations	R-4 R9 60-61	PPT/Notes/BB
38.	Engagement & Discharge of Ships Crew-Ships articles Deck/Engine/Radio Departments.	3-44 to 49	PPT/Notes/BB
39.	Special Requirement for tankers	R-4	PPT/Notes/BB
40.	Emergency, MOB, Grounding , occupational safety.medical care and Survival functions	R10: 134 to 158	PPT/Notes/BB
41.	Emergency Preparedness,Drill and exercises,ERM(Engine room Resources Management)	RIO: 134 to 158	PPT/Notes/BB
42.	Role of Maritime administration(DGS) and its function:DGS Rules and MS Notices	R9-11	PPT/Notes/BB
43.	Grounds for PSC inspection and criteria for detention	R9,62 to 67	PPT/Notes/BB
44.	Port state control, Mandatory certificate checklist,	R9,62 to 67	PPT/Notes/BB
45.	Merchant Shipping Act 1958	3-21,R-6	PPT/Notes/BB

Content beyond syllabus covered (if any):

* Session duration: 50 mins



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TEXT BOOKS

1. E.F Stevens & C.S.J. Butterfield "Shipping Practice" 11th Edition, Sterling Book House, Mumbai, 1999.
2. John M.Downard, "Ship Management Series - Managing Ships", 1 Edition, Fairplay publications, Condsden, Surrey, 1990
- 3 Capt Dara E.Driver, "Advanced Shipboard Management", 1 Edition, Rumar Publications, Mumbai, 1985.
- 4 Pinto, "Maritime Law", Bhandarkar Publications, 1998

REFERENCES:

- 1) Nilima, M.Chanidiramani, "Carriage of goods by Sea and Multimodal Transport", 1st Edition, Saptarang Publication, Mumbai, 1996.
- 2) SOLAS-1974 - International Maritime Organisation Publications
- 3) MARPOL-1973/78 - International Maritime Organisation Publications
- 4) STCW -1978/95 - International Maritime Organisation Publications
- 5) G.Raghuram, "Shipping Management", 1st Edition, Vasant J.Sheth Memorial Foundation, Delhi, 1992
- 6) Merchant Shipping Act, Govt. of India - 1958.
- 7) ISPS
- 8) Advanced Marine Engineering, Vol-IV, N. Nanda & Vikram Gokkale
- 9) Advanced Marine engineering Vol-IV, N. Nanda & Vikram Gokkale Gokkale
- 10) Shipping and Law, Capt.S.Pullat & Capt.R.Venkat

	Prepared by		Approved by
Signature			
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Designation	Professor		HoD
Date	13.07.2021		13.07.2021
Remarks *:	<i>The same lesson plan is followed in subsequent semesters</i>		
Remarks *:	 26.7.22	 HoD	

* If the same lesson plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD