

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. SEMESTER : VIII

MARINE ENGINEERING

Subject Name: **SHIP OPERATION AND MANAGEMENT**

Sr. No.	Course Contents	Total Hrs
1.	Brief history of shipping: Modern shipping practice. Marine vehicles and cargoes. Development in Shipping and cargo handling Principal shipping organizations. Liner and tramp shipping services, Conference systems. Chartering, Charter parties. Theory of freight rates and fares. Rate fixation machinery and government control. Bills of lading. Carriage of goods by sea act. Cargo Surveys and protests.	11
2.	Role of classification society	03
3.	Marine Insurance: Underwriting and loss adjusting principles applied to Marine cargo insurance. Hull policy, particular average General average, P & I Clubs.	06
4.	Ownerships of vessels, Shipping Company and its administration. Capitalization and finance, Economics of new and second hand tonnage. Subsidies.	06
5.	Ship Operations : Planning sailing schedules. Voyage estimates Economic factors.	06
6.	Commercial Shipping Practice. Manning of ships. Engagement and disadvantage of crew D. L. B. Seaman's welfare.	04
7.	Merchant Shipping act: Registration of ship. Ship's papers. Port Procedures. Pilotage, Duties regarding pollution. Collision, Explosion fire etc. Vessels in distress. Shipping casualties penalties under Merchant Shipping Act.	09

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", I Edition, Fairplay Publications, Coulsdon, Surrey - 1990.
3. Capt.Dara E.Driver, "Advanced Shipboard Management", I Edition, Rumar Publications, Mumbai, 1985.

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.