

OE2014: MARINE ENGINEERING

Course Content:

Introduction to marine machinery -Types of marine power systems-Engine room layout -Marine diesel engines and their cycles, Fuels Super charging, Ignition and combustion problems-Fuel oil, lubricating oil-Compressed air cooling water systems. Turbines, pumps, their types and characteristics, cavitation etc. Marine boilers, Composite boilers-Exhaust gas and heat exchangers-Economizers, Super heaters. Auxiliary machineries-Choice of power systems for ships. Fire fighting, Navigational aids, Steering gear, shafting, stern tubes and transmission system

Text Books:

1. **Harrington,R.L.** Marine Engineering, SNAME,New York (1992)
2. **Taylor,D.A.**,Introduction to Marine Engineering,Butterworths,London(1983)
3. **Woodward, J.B.**,Low Speed Marine Diesel,Ocean Engineering,A Wiley series(1981)

Reference Books:

1. Any standard text books on thermodynamics and IC engines

Prerequisite: