

B.TECH – MARINE ENGINEERING

Semester – I	Semester – II
Communicative English & Sociology	Seamanship, Elementary Navigation & Survival at Sea
Mathematics – I	Mathematics – II
Basic Thermodynamics	Applied Thermodynamics – I
Basic Electrical & Electronics Engineering	Strength of Materials – I
Engineering Mechanics – I	Computer Science
Workshop Technology	Engineering Mechanics – II
Geometrical Drawing	Engineering & Machine Drawing
Basic Electrical & Electronics Laboratory	Applied Mechanics Laboratory
Workshop Practicals – I	Workshop Practicals – II
Communicative English Lab	Computer Laboratory – I
Credit Marks	Credit Marks
Semester – III	Semester – IV
Computational Mathematics	Ship Structure & Construction
Electronics	Marine Boiler Steam Engineering
Applied Thermodynamics – II	Mechanics of Machines – II
Strength of Materials – II	Electrical Machines – II
Mechanics of Machines – I	Fluids Mechanics – I
Electrical Machines – I	Marine Heat Engine & Air Conditioning
Marine Engineering Drawing	Practical Marine Automation
Electronics Laboratory	Heat & Boiler Chemical Laboratory
Computer Laboratory – II	Workshop Practicals – IV
Workshop Practicals – III	Control Engineering Laboratory I
Credit Marks	Credit Marks

Semester – V	Semester – VI
Material Science	Ship Fire Prevention & Control
Management Science & Economics	Marine Internal Combustion Engine II
Marine Internal Combustion Engine – I	Marine Electrical Technology
Fluid Mechanics – II	Marine Auxiliary Machines – II
Marine Auxiliary Machines – I	Naval Architecture – II
Naval Architecture – I	Elective subject – 1
Elementary Design & Drawing	Fire Control & Life Saving Appliances Laboratory
Material Science Laboratory	Marine Power Plant Operation – II
Mechanics & Fluid Laboratory	Electrical Machines Laboratory
Marine Power Plant Operation – I	Credit Marks
Credit Marks	

Semester – VII	Semester – VIII
Ship Operation & Management	ON BOARD TRAINING & ASSESSMENT
Advanced Marine Control Engineering & Automation	Voyage Report
IMO & Maritime Conventions	Environmental Project
Advanced Marine Technology	Viva - Voce
Engine Room Management	
Elective subject – 2	
Marine Machinery & System Design	
Simulator & Control Laboratory	

Technical Paper & Project	
Credit Marks	
Carryover Credit Group from I to VI Semester	

Elective Subjects:
Double Hull Tanker Vessels
Advanced Marine Heat Engines(Co-Cycles)
Environmental Science & Technology
Advanced Computer Application
Advanced Hydraulics and Hydraulic Machinery
Transport & Logistic Management
Advanced Material Science & Surface Coating Engineering
Renewable Energy Sources & Applications