Naval Architecture and Marine Engineering

Military Institute of Science and Technology

CORE: NAME		
01	NAME	Introduction to Naval Architecture and Marine Engineering
02	NAME	Hydrostatics and Stability
03	NAME	Fluid Mechanics (with Sessional)
04	NAME	Mechanics of Structure (with Sessional)
05	NAME	Marine Hydrodynamics (with Sessional)
06	NAME	Dynamics of Marine Vehicles
07	NAME	Thermal Engineering (with Sessional)
08	NAME	Shipbuilding Materials and Metallurgy (with Sessional)
09	NAME	Ship Structure
10	NAME	Ship Design
11	NAME	Design of Special Ships
12	NAME	Basic Ship Design Sessional
13	NAME	Computer Aided Ship Design Sessional
14	NAME	Ship Resistance and Propulsion (with Sessional)
15	NAME	Machine Elements Design
16	NAME	Stability and Machinery Layout Design Sessional
17	NAME	Marine Engineering 1 (with Sessional)
18	NAME	Marine Engineering 2 (with Sessional)
19	NAME	Numerical Methods (with Sessional)
20	NAME	Ship Construction and Welding Technology
21	NAME	Marine Maintenance and Repair Engineering
22	NAME	Marine Economics and Management
23	NAME	Ship Design Project 1
24	NAME	Ship Design Project 2
25	NAME	Application of Ship Design Software Sessional
26	NAME	Shipyard Practice / Industrial Training
27	NAME	Research Project and Thesis 1
28	NAME	Research Project and Thesis 2
CORE: SCINECE AND TECHNOLOGY		
01	MATH	Differential and Integral Calculus
02	MATH	Differential Equations and Matrix
03	MATH	Vector Analysis, Laplace, Coordinate Geometry
04	MATH	Statistics, Complex Variable, Fourier Transform
05	PHY	Wave Oscillation, Geometrical Optics, Modern Physics (with Sessional)
06	PHY	Structure of Matter, Electricity and Magnetism (with Sessional)
07	CHE	Fundamentals of Chemistry (with Sessional)
08	CSE	Computer Programming Language (with Sessional)
09	EEE	Marine Electrical and Electronics (with Sessional)
10	ME	Heat Transfer
11	ME	Mechanical Engineering Drawing Sessional
12	SHOP	Workshop Practice (Foundry, Welding and Machine Shop)
13	GERM	Fundamentals of Research Methodology
14	GEEM	Engineering Ethics and Moral Philosophy
ELECTIVES 1 (Any One Course)		
01	NAME	Finite Element Method for Ship Structure
02	NAME	Computational Fluid Dynamics
03	NAME	Composite Materials
04	NAME	Marine Production and Planning
06	NAME	Port and Harbor Engineering
ELECTIVES 1 (Any Three Courses)		
01	NAME	Power and Propulsion System
02	NAME	Ship Performance
03	NAME	Navigation and Marine Regulations
04	NAME	Ship Hull Vibration
05	NAME	Optimization Method in Ship Design
06	NAME	Theory of Hydrofoils
07	NAME	Computer Aided Ship Production
08	NAME	Control Engineering
09	NAME	Marine Acoustics

10	NAME	Inland Water Transportation System
11	NAME	Marine Transportation System
12	NAME	Dredger and Dredging Technology
13	NAME	Introduction to Offshore Structure
14	NAME	Shipyard Management