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| **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 |