

TOTAL EXAMINATION PROGRAM
PEO Syllabus of Examinations, 2016 Edition

NAVAL ARCHITECTURAL ENGINEERING

INTRODUCTION

A full set of Naval Architectural Engineering examinations consists of the following, three-hour examination papers and an engineering report. Candidates will be assigned examinations based on an assessment of their academic background. Examinations from discipline syllabi other than those specific to the candidates' discipline may be assigned at the discretion of PEO's Academic Requirement Committee.

BASIC STUDIES EXAMINATIONS

04-BS-1	Mathematics
04-BS-2	Probability and Statistics
04-BS-3	Statics and Dynamics
04-BS-4	Electric Circuits and Power
04-BS-5	Advanced Mathematics
04-BS-6	Mechanics of Materials
04-BS-7	Mechanics of Fluids
04-BS-9	Basic Electromagnetics
04-BS-10	Thermodynamics
04-BS-11	Properties of Materials
04-BS-12	Organic Chemistry
04-BS-13	Biology
04-BS-15	Engineering Graphics and Design Process

PROFESSIONAL EXAMS – SPECIFIC TO NAVAL ARCHITECTURAL ENGINEERING

GROUP A

16-Nav-A1	Fundamentals of Naval Architecture
16-Nav-A2	Hydrodynamics of Ships (I): Resistance and Propulsion
16-Nav-A3	Hydrodynamics of Ships (II): Ship Motion
16-Nav-A4	Ship Structure and Strength of Ships
16-Nav-A5	Ship Design
16-Nav-A6	Advanced Strength of Materials (16-Mec-A7)

GROUP B

16-Nav-B1	Applied Thermodynamics and Heat Transfer (16-Mec-A1)
16-Nav-B2	Marine Engineering (98-Mar-A7)
16-Nav-B3	Small Commercial Ships
16-Nav-B4	Advanced Structural Analysis
16-Nav-B5	Ship Production and Shipyard Management
16-Nav-B6	Design and Manufacture of Machine Elements (16-Mec-A4)
16-Nav-B7	Environmental Control in Ships (98-Mar-B2)
16-Nav-B8	Ocean Engineering and Offshore Structures
16-Nav-B9	Advanced Fluid Mechanics (16-Mec-A6)
16-Nav-B10	Finite Element Analysis (16-Mec-B10)

COMPLEMENTARY STUDIES

11-CS-1	Engineering Economics
11-CS-2	Engineering in Society – Health & Safety
11-CS-3	Sustainability, Engineering and the Environment
11-CS-4	Engineering Management

3.2	Engineering Report
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