

TOTAL EXAMINATION PROGRAM
PEO Syllabus of Examinations, 2004 Edition

STRUCTURAL ENGINEERING

INTRODUCTION

A full set of Structural 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-5	Advanced Mathematics
04-BS-6	Mechanics of Materials
04-BS-7	Mechanics of Fluids
04-BS-11	Properties of Materials
04-BS-14	Geology
04-BS-15	Engineering Graphics and Design Process
04-BS-16	Discrete Mathematics

PROFESSIONAL EXAMS – SPECIFIC TO STRUCTURAL ENGINEERING

GROUP A

07-STR-A1	Elementary Structural Analysis
07-STR-A2	Elementary Structural Design
07-STR-A3	Geotechnical Materials and Analysis
07-STR-A4	Advanced Structural Analysis
07-STR-A5	Advanced Structural Design

Select One from:

07-STR-A6-1 = 04-STR-B3	Applications of Finite Elements
07-STR-A6-2 = 04-STR-B9	Advanced Structural Mechanics
07-STR-A6-3 = 04-STR-B10	Earthquake Engineering

GROUP B

07-STR-B1	Geotechnical Design
07-STR-B2	Management of Construction
07-STR-B3	Applications of Finite Elements
07-STR-B4	Structural Materials
07-STR-B5	Foundation Engineering
07-STR-B6	Building Engineering and Services
07-STR-B7	Forensic Engineering and Rehabilitation
07-STR-B8	Architectural Design and Engineering
07-STR-B9	Advanced Structural Mechanics
07-STR-B10	Earthquake Engineering
07-STR-B11	Hydraulic Engineering

COMPLEMENTARY STUDIES

98-CS-1	Engineering Economics
98-CS-2	Engineering in Society – Health, Safety, and the Environment
98-CS-3	Management Concepts for Engineers

3.2	Engineering Report
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