

**TOTAL EXAMINATION PROGRAM**  
**PEO Syllabus of Examinations, 2004 Edition**

**BUILDING ENGINEERING**

**INTRODUCTION**

A full set of Building 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-6	Mechanics of Materials
04-BS-7	Mechanics of Fluids
04-BS-10	Thermodynamics
04-BS-11	Properties of Materials
04-BS-15	Engineering Graphics and Design Process

**PROFESSIONAL EXAMS – SPECIFIC TO BUILDING ENGINEERING**

**GROUP A**

07-Bld-A1	Elementary Structural Analysis
07-Bld-A2	Elementary Structural Design
07-Bld-A3	Construction Engineering
07-Bld-A4	Building Engineering Systems
07-Bld-A5	Building Science
07-Bld-A6	Geotechnical Materials and Analysis
07-Bld-A7	Building Envelope Design

**GROUP B**

07-Bld-B1	Computer Programming
07-Bld-B2	Advanced Structural Analysis
07-Bld-B3	Advanced Structural Design
07-Bld-B4	Modern Building Materials
07-Bld-B5	Fire and Smoke Control in Buildings
07-Bld-B6	Building Energy Conservation Technologies
07-Bld-B7	Indoor Air Quality
07-Bld-B8	Control Systems in Buildings
07-Bld-B9	Building Services

**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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