

**TOTAL EXAMINATION PROGRAM**  
**PEO Syllabus of Examinations, 2016 Edition**

**CIVIL ENGINEERING**

**INTRODUCTION**

A full set of Civil 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-10	Thermodynamics
04-BS-11	Properties of Materials
04-BS-12	Organic Chemistry
04-BS-13	Biology
04-BS-14	Geology
04-BS-15	Engineering Graphics and Design Process

**PROFESSIONAL EXAMS – SPECIFIC TO CIVIL ENGINEERING**

**GROUP A**

16-Civ-A1	Elementary Structural Analysis
16-Civ-A2	Elementary Structural Design
16-Civ-A3	Municipal and Environmental Engineering
16-Civ-A4	Geotechnical Materials and Analysis
16-Civ-A5	Hydraulic Engineering
16-Civ-A6	Highway Design, Construction, and Maintenance

**GROUP B**

16-Civ-B1	Advanced Structural Analysis
16-Civ-B2	Advanced Structural Design
16-Civ-B3	Geotechnical Design
16-Civ-B4	Engineering Hydrology
16-Civ-B5	Water Supply and Wastewater Treatment
16-Civ-B6	Urban and Regional Planning
16-Civ-B7	Transportation Planning and Engineering
16-Civ-B8	Management of Construction
16-Civ-B9	The Finite Element Method
16-Civ-B10	Traffic Engineering
16-Civ-B11	Structural Materials
16-Civ-B12	Risk and Safety in Civil Engineering

**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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