

**TOTAL EXAMINATION PROGRAM**  
**PEO Syllabus of Examinations, 2007 Edition**

**WATER RESOURCES ENGINEERING**

**INTRODUCTION**

A full set of Water Resources 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-8	Digital Logic Circuits
04-BS-9	Basic Electromagnetics
04-BS-10	Thermodynamics
04-BS-11	Properties of Materials
04-BS-12	Organic Chemistry
04-BS-15	Engineering Graphics and Design Process
04-BS-16	Discrete Mathematics

**PROFESSIONAL EXAMS – SPECIFIC TO WATER RESOURCES ENGINEERING**

**GROUP A**

07-WRSE-A1	Water Quality & Management
07-WRSE-A2	Engineering Hydrology
07-WRSE-A3	Soil Mechanics & Groundwater
07-WRSE-A4	Hydraulics & Hydraulics Structures
07-WRSE-A5	Water Resources Planning & Systems
07-WRSE-A6	Municipal Engineering
07-WRSE-A7	Select <u>ONE</u> from
	07-WRSE-A7-1 – Irrigation, Drainage & Erosion Control
	07-WRSE-A7-2 – Geomatics

**GROUP B**

07-WRSE-B1	Geomorphology & Pleistocene Geology
07-WRSE-B2	Numerical Methods
07-WRSE-B3	Water Supply and Waste Water Treatment
07-WRSE-B4	Open Channel Hydraulics
07-WRSE-B5	Limnology
07-WRSE-B6	Contaminant Transport
07-WRSE-B7	Coastal Engineeringw
07-WRSE-B8	River Engineering
07-WRSE-B9	Modelling of Surface Water Quality
07-WRSE-B10	Risk Management in Water Resources
07-WRSE-B11	Environmental Engineering Systems
07-WRSE-B12	Environmental Assessment and Management Systems

**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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