

TOTAL EXAMINATION PROGRAM
PEO Syllabus of Examinations, 2004 Edition

CHEMICAL ENGINEERING

INTRODUCTION

A full set of Chemical 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 CHEMICAL ENGINEERING

GROUP A

04-Chem-A1	Process Balances and Chemical Thermodynamics
04-Chem-A2	Mechanical and Thermal Operations
04-Chem-A3	Mass Transfer Operations
04-Chem-A4	Chemical Reactor Engineering
04-Chem-A5	Chemical Plant Design and Economics
04-Chem-A6	Process Dynamics and Control

GROUP B

04-Chem-B1	Transport Phenomena
04-Chem-B2	Environmental Engineering
04-Chem-B3	Simulation, Modelling, and Optimization
04-Chem-B4	Biochemical Engineering
04-Chem-B5	Pulp and Paper Technology
04-Chem-B6	Petroleum Refining and Petrochemicals
04-Chem-B7	Extractive Metallurgy
04-Chem-B8	Polymer Engineering
04-Chem-B9	Advanced Materials
04-Chem-B10	Life Cycle Assessment (LCA)

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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