

TOTAL EXAMINATION PROGRAM
PEO Syllabus of Examinations, 2016 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

16-Chem-A1	Process Balances and Chemical Thermodynamics
16-Chem-A2	Unit Operations and Separation Processes
16-Chem-A3	Heat and Mass Transfer
16-Chem-A4	Chemical Reactor Engineering
16-Chem-A5	Chemical Plant Design and Economics
16-Chem-A6	Process Dynamics and Control

GROUP B

16-Chem-B1	Transport Phenomena
16-Chem-B2	Environmental Engineering
16-Chem-B3	Simulation, Modelling, and Optimization
16-Chem-B4	Biochemical Engineering
16-Chem-B5	Pulp and Paper Technology
16-Chem-B6	Petroleum Refining and Petrochemicals
16-Chem-B7	Extractive Metallurgy
16-Chem-B8	Polymer Engineering
16-Chem-B9	Advanced Materials
16-Chem-B10	Life Cycle Assessment (LCA)
16-Chem-B11	Nuclear and Nuclear Chemical Processes
16-Chem-B12	Corrosion and Oxidation
16-Chem-B13	Ceramic Materials
16-Chem-B14	Nanomaterials

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
-----	--------------------