

TOTAL EXAMINATION PROGRAM
PEO Syllabus of Examinations, 2017 Edition

INDUSTRIAL ENGINEERING

INTRODUCTION

A full set of Industrial 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-15	Engineering Graphics and Design Process

PROFESSIONAL EXAMS – SPECIFIC TO INDUSTRIAL ENGINEERING

GROUP A

17-Ind-A1	Operations Research
17-Ind-A2	Analysis and Design of Work
17-Ind-A3	Facilities Planning
17-Ind-A4	Production Management
17-Ind-A5	Quality Planning, Control, and Assurance
17-Ind-A6	Systems Simulation

GROUP B

17-Ind-B1	Applied Probability and Statistics
17-Ind-B2	Manufacturing Processes
17-Ind-B3	Computer Aided Design and Computer-Assisted Manufacturing
17-Ind-B4	Design of Information Systems
17-Ind-B5	Ergonomics
17-Ind-B6	Workplace Design
17-Ind-B7	Financial and Managerial Accounting
17-Ind-B8	Computer Integrated Manufacturing (CIM)
17-Ind-B9	Logistics: Transportation Aspects
17-Ind-B10	Workplace Health and Safety

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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