

TOTAL EXAMINATION PROGRAM
PEO Syllabus of Examinations, 2007 Edition

MECHANICAL ENGINEERING

INTRODUCTION

A full set of Mechanical 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-15	Engineering Graphics and Design Process
04-BS-16	Discrete Mathematics

PROFESSIONAL EXAMS – SPECIFIC TO MECHANICAL ENGINEERING

GROUP A

07-Mec-A1	Applied Thermodynamics and Heat Transfer
07-Mec-A2	Kinematics and Dynamics of Machines
07-Mec-A3	System Analysis and Control
07-Mec-A4	Design and Manufacture of Machine Elements
07-Mec-A5	Electrical and Electronics Engineering
07-Mec-A6-1	Fluid Machinery
07-Mec-A6-2	Advanced Strength of Materials

GROUP B

07-Mec-B1	Advanced Machine Design
07-Mec-B2	Environmental Control in Buildings
07-Mec-B3	Energy Conversion and Power Generation
07-Mec-B4	Integrated Manufacturing Systems
07-Mec-B5	Product Design and Development
07-Mec-B6	Advanced Fluid Mechanics
07-Mec-B7	Aero and Space Flight
07-Mec-B8	Engineering Materials
07-Mec-B9	Advanced Engineering Structures
07-Mec-B10	Finite Element Analysis
07-Mec-B11	Acoustics and Noise Control
07-Mec-B12	Robot Mechanics
07-Mec-B13	Biomechanics

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