

**TOTAL EXAMINATION PROGRAM**  
**PEO Syllabus of Examinations, 2008 Edition**

**MANUFACTURING ENGINEERING**

**INTRODUCTION**

A full set of Manufacturing 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 MANUFACTURING ENGINEERING**

**GROUP A**

08-Mfg-A1	Design and Manufacture of Machine Elements
08-Mfg-A2	Manufacturing Processes
08-Mfg-A3	Production Management
08-Mfg-A4	Analysis and Design of Work
08-Mfg-A5	Facilities Planning
08-Mfg-A6	Quality Planning, Control and Assurance
08-Mfg-A7	Electrical and Electronics Engineering

**GROUP B**

08-Mfg-B1	Computer Aided Design and Computer Aided Manufacturing
08-Mfg-B2	Computer Integrated Manufacturing (CIM)
08-Mfg-B3	System Analysis Simulation
08-Mfg-B4	Product Design and Development
08-Mfg-B5	Engineering Materials
08-Mfg-B6	Metrology
08-Mfg-B7	Logistics: Transportation Aspects
08-Mfg-B8	Robot Mechanics
08-Mfg-B9	Industrial Safety and Health
08-Mfg-B10	Tooling, Jigs and Fixture Design
08-Mfg-B11	Fluid Machinery
08-Mfg-B12	Ergonomics

**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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