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