

**TOTAL EXAMINATION PROGRAM**  
**PEO Syllabus of Examinations, 2004 Edition**

**METALLURGICAL ENGINEERING**

**INTRODUCTION**

A full set of Metallurgical 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-6	Mechanics of Materials
04-BS-7	Mechanics of Fluids
04-BS-10	Thermodynamics
04-BS-11	Properties of Materials

**PROFESSIONAL EXAMS – SPECIFIC TO METALLURGICAL ENGINEERING**

**GROUP A**

98-Met-A1	Metallurgical Thermodynamics
98-Met-A2	Metallurgical Rate Phenomena
98-Met-A3	Metal Extraction Processes
98-Met-A4	Structure of Materials
98-Met-A5	Mechanical Behaviour and Processing and Performing of Materials
98-Met-A6	Thermal Treatment of Metals and Alloys

**GROUP B**

98-Met-B1	Mineral Processing
98-Met-B2	Hydrometallurgy
98-Met-B3	Iron and Steelmaking
98-Met-B4	Non-Ferrous Extractive Metallurgy
98-Met-B5	Metal Fabrication
98-Met-B6	Physical Metallurgy of Iron and Steel
98-Met-B7	Physical Metallurgy of Non-Ferrous Metals and Alloys
98-Met-B8	Ceramic Materials
98-Met-B9	Polymers and Fibre-Reinforced Polymers

**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