

**TOTAL EXAMINATION PROGRAM**  
**PEO Syllabus of Examinations, 2018 Edition**

**MINING AND MINERAL PROCESSING ENGINEERING**

**INTRODUCTION**

A full set of Mining and Mineral Processing 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-11	Properties of Materials
04-BS-14	Geology
04-BS-15	Engineering Graphics and Design Process

**PROFESSIONAL EXAMS – SPECIFIC TO MINING AND MINERAL PROCESSING ENGINEERING**

**GROUP A**

18-MMP-A1	General Geology and Exploration
18-MMP-A2	Underground Mining Methods and Design
18-MMP-A3	Mineral Processing
18-MMP-A4	Mine Valuation and Mineral Resource Estimation
18-MMP-A5	Surface Mining Methods and Design
18-MMP-A6	Mining and the Environment

**GROUP B**

18-MMP-B1	Applied Rock Mechanics
18-MMP-B2	Rock Fragmentation
18-MMP-B3	Material Handling
18-MMP-B4	Occupational Health, Safety and Loss Management
18-MMP-B5	Mill Design and Operations
18-MMP-B6	Mill Process Control
18-MMP-B7	Extractive Metallurgy
18-MMP-B8	Mine Management and Systems Analysis
18-MMP-B9	Rock Slope Engineering

**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