

Professional Diploma in Metallurgical & Materials Engineering

Stage 1- Complete Advanced Diploma in Mechanical Engineering & Year 3 Common course of Professional Diploma in Mechanical Engineering Studies

(Guided study to complete Advanced Diploma in Mechanical Engineering PLUS up to Year 3 of Professional Diploma)

Stage 2-Study the following textbooks

Year 4 BE (Metallurgy & Materials)

(Self study with presentation of study progress report to complete Professional Diploma in Metallurgical & Materials Engineering- Assessment Fees will be charged only after the student can submit the report for first textbook)

Met 401 Mechanical Properties of Metals
Met 402 Metallurgical Engineering Alloys
Met 403 Metallurgy Principle
Met 404 Metallurgy
Met 405 Powdered Metallurgy

Year 5 BE (Metallurgy & Materials) common to BE (Minerals Extraction & Explosion Protection)

Met501 Mechanical Estimating
Met502 Mechanical Properties of Metals

Met503 Metallurgy

Met504 Engineered Metals

Met505 Metallurgical Alloys

Met507 Stress Assessment in Metallurgy

Met508 Metallic Materials

Year 6 BE (Metallurgy & Materials) common to BE (Minerals Extraction & Explosion Protection)

Met601 Metallurgical Processing

Met602 Machinery Failure Analysis

Met603 Materials Selection in Mechanical Design

Met604 Strain Testing

Met605 Applied Metallurgy

Met606 Metals Extraction

Additional units

Met608 Corrosion Prevention

Study Method & Assessment

The students will need to read the reference materials provided in folder of each unit & write the report on their study for each unit.

The report should contain

- Summary of knowledge acquired in the unit
- Practical methods related to assessment, safe working, protection, technical data, equipments utilized in hazardous areas
- Practical applications in work place
- Specific applications in the area of your choice
- Reference guides etc

Each report should be Arial 11 fonts with 10 to 20 pages written in own words by using English..

Insert the appropriate diagrams & tables, formula and data related to information.