

## Graduate Diploma in Metallurgical Engineering Course Work

To complete the Graduate Diploma in Engineering, the students will have to complete 12 units with each 8 credit points totalling 96 credit points.

By adding Masters thesis of 24 credit points, they will complete 120 credit points . Total credit points for Masters degree is (Bachelor degree 120 credit points+ Graduate Diploma+ Masters degree 120 credit points Total 240 Credit points).

Graduate Diploma is pre-requisite for Masters degree.

### Course Work Plan

The students will have to write 20 pages study report for each of the subjects outlined below.

The report needs to include

- Book review- Review on each chapter of the book highlighting the key concepts, key formula, key theory & practical application concepts
- Own idea on how to apply those concepts in real practical applications.
- Examples of engineering designs that use the concepts & knowledge expressed in those books (If any)
- Your comment on each book
- **Metallurgical Engineering**
- Met501 Mechanical Estimating
- Met502 Mechanical Properties of Metals
- Met503 Metallurgy
- Met504 Engineered Metals
- Met505 Metallurgical Alloys
- Met507 Explosive Engineering
- Met508 Metallic Materials
- Met509 Stress Assessment in Metallurgy
- Met601 Metallurgical Processing
- Met602 Machineries Failure Analysis
- Met603 Materials Selection in Mechanical Design
- Met604 Strain Testing

- Met605 Applied Metallurgy