

Graduate Diploma in Mechanical 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

BAE 625- Structural Engineering Mechanics

BAE 678A/B-Machine Design

BAE 679- Materials Science

Composite Materials & Joining Technology

BAE 680-Quality Control

BAE 681- Welding Engineering

BAE 682-Assembly Automation & Product Design

BAE 683-Material Engineering

BAE 684-Computerised Engine Control

BAE 685-Electric Vehicle Technology

BAE 686-Electro-Mechanical Manufacturing

BAE 687-Lasers in Manufacturing

BAE 688-Manufacturing Management

BAE 689A/B-Mechanical Design

BAE 690-Mechanical Estimating

BAE 691-Mechatronics

BAE 692-Metallurgy

BAE 693-Piping System

BAE 694-Control Engineering

BAE 695-Random Vibration

BAE 696-Specification Development

BAE 697-Structural Foundation Design

BAE 698-Thermal Engineering

BAE 699-Rotating Machinery Vibration