

## Graduate Diploma in Electrical 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 655-Wireless Communications

BAE 656-Advanced Digital Signal Processing

BAE 657-Advanced Electromagnetics

BAE 658-Real-time Systems

BAE 659-Computer-aided Control Systems

BAE 660-Control Engineering

BAE 661-Design of Electrical Services for Buildings

BAE 662-Design of Rotating Electrical Machines

BAE 663-Digital Electronics

BAE 664-Distributed Generation in Power System

BAE 665-Embedded Digital Signal Processing Systems

BAE 666- Low Emission Electricity Generation

BAE 667-Industrial Control System

BAE 668-Photonics

BAE 669-Power Electronics and Instrumentation Engineering

BAE 670-Power System Engineering

BAE 671-Satellite Communications and Navigation Systems

BAE 672-Industrial & System Engineering

BAE 673-Frequency Stability

BAE 674-Intelligent Systems

BAE 675-Nanoelectronics

BAE 676-Failure Analysis

BAE 677-Photovoltaics System