

Syllabus

Diploma in Electrical & Electronics Engineering

Sem – I

1. Communication English I
2. Engineering Mathematics I
3. Engineering Physics I
4. Engineering Chemistry I
5. Engineering Graphics I

Sem – II

1. Communication English II
2. Engineering Mathematics II
3. Engineering Physics II
4. Engineering Chemistry II
5. Engineering Graphics II

Sem – III

1. Electrical Circuit Theory
2. Electrical Machines I
3. Electronic Devices & Circuit
4. Electrical Circuit & Machines
5. Measurements & Instruments

Sem – IV

1. Electrical Machines II
2. Digital Electronics
3. Transducer & Single Conditioners
4. Electrical Machines Instrumentations
5. Digital Electronics & Linear Integrated Circuits

Sem – V

1. Power System I
2. Microcontrollers
3. Special Electrical machines
4. Electrical Circuit Simulation

5. Control of Electrical Machines

Sem – VI

1. Programmable Logic Controller
2. Electrical Machine Design
3. Electrical Estimation & Energy Auditing
4. Power System II
5. Power Electronics

Bachelor Program in Electrical & Electronics Engineering

Sem – I

1. Calculus
2. Physics
3. Mechanics of Solids
4. Engineering Graphics
5. English
6. Linear Algebra

Sem – II

1. Chemistry
2. Environment & Energy Studies
3. Art of Programming
4. Elements of Electrical Engineering
5. Communication Skills
6. Electronic Devices & Circuit

Sem – III

1. Thermal & Hydraulic Machines
2. Industrial Psychology
3. Basic System Analysis
4. Electrical Measurements & Measuring Instruments
5. Analogue & Digital Electronics
6. Human Values & Professional Ethics

Sem – IV

1. Microprocessors
2. Biomedical Instrumentation
3. Network Analysis & Synthesis
4. Electrical & Electronics Engineering Materials
5. Electromechanical Energy Conversion - I
6. Optimization Techniques

Sem – V

1. Engineering & Managerial Economics

2. Fundamentals of E. M. Theory
3. Electromechanical Energy Conversion - II
4. Control System
5. Elements of Power System
6. Analogue Integrated Electronics

Sem – VI

1. Industrial Management
2. Power System Analysis
3. Power Electronics
4. Analogue & Digital Communication
5. Human Values & Professional Ethics
6. Illumination Technology

Sem – VII

1. Electrical Instrumentation & Process Control
2. Switch Gear & Protection
3. Heat Power Engineering
4. Active & Passive Network Synthesis
5. Multimedia Systems
6. Electrical & Electronics Engineering

Sem – VIII

1. Data Communication Networks
2. Computer Organization & Architecture
3. Transducer & Sensors
4. Electromagnetic Theory
5. Micro Processor & Micro Controller
6. Electric Driver

Master Program in Electrical & Electronics Engineering

Sem – I

1. Probing at the Nan Scale
2. Data Networks
3. Digital Communication
4. Energy Efficient Electronics Technology
5. Advanced Power Electronics & Drives
6. Modern Control Systems
7. Wide Band Gap Electronics

Sem – II

1. Power Generation Systems
2. Network QoS & Control
3. RF & Microwave
4. Signal Analysis & Modeling
5. Digital Signal Processing & Communication
6. Lasers

7. Project Planning

Sem – III

1. Circuit Theory & Networks
2. Materials Science
3. Electromagnetic Theory
4. Electric Drives
5. Active & Passive Network Synthesis
6. Heat Power Engineering
7. Multimedia Systems

Sem – IV

1. Industrial Management
2. Microprocessor Based System
3. Advanced Numerical Computation
4. Remote Control & Telemetry
5. AI & Neural Networks
6. Optimal Control System
7. Specialization