

# **B-TECH IN ELECTRICAL ENGINEERING**

## **SEMESTER I**

- 1 English – I
- 2 Indian Constitution and Ethics
- 3 Mathematics – I
- 4 Applied Chemistry
- 5 Electrical Technology
- 6 Mechanics
- 7 Introduction to Manufacturing Process
- 8 Applied Chemistry (Practical)
- 9 Electro Technology (Practical)

## **SEMESTER II**

- 1 English –II
- 2 Environmental Studies
- 3 Mathematics – II
- 4 Applied Physics Fundamentals of Computers
- 5 Basic Electronics Engineering Drawing and Graphics
- 6 Applied Physics (Practical)
- 7 Basic Electronics (Practical)

## **SEMESTER III**

- 1 Mathematics –II
- 2 Thermodynamics
- 3 Signals & Network Digital Electronics
- 4 Electrical Machines
- 5 Electrical Machines (Practical)
- 6 Signals & Network (Practical)
- 7 Thermodynamics Practical

## **SEMESTER IV**

- 1 Society, Environment & Engineering
- 2 Electronic Devices & Circuits
- 3 Analog Electronic Circuits
- 4 Electromagnetic Engineering
- 5 Electrical Measurement – I
- 6 Analog Electronic Circuits (Practical)
- 7 Electrical Measurement-I (Practical)

## **SEMESTER V**

- 1 Computer Organization
- 2 Control System
- 3 Power System
- 4 Electrical Measurement –II
- 5 Advanced Electrical Machines
- 6 Control System (Practical)
- 7 Advanced Electrical Machines (Practical)

## **SEMESTER VI**

- 1 Power Electronics & Devices
- 2 Digital Signal Processing
- 3 Microprocessor
- 4 Advanced Power System & Design
- 5 Industrial Economics and Management
- 6 Power Electronics & Devices (Practical)
- 7 Microprocessor (Practical)

## **SEMESTER VII**

- 1 Switchgear and Protection
- 2 Utilization of Electrical Power
- 3 Communication Engineering
- 4 Electronics Instrumentation
- 5 Elective- High Voltage Engineering
- 6 EHV-Transmission
- 7 Electrical Power System Reliability

## **SEMESTER VIII**

- 1 Machine Drives
- 2 Design & Estimation of Electrical Systems
- 3 Electrical Machine Design
- 4 Machine Drives (Practical)
- 5 Illumination Engineering
- 6 Switchgear and Protection & Practical
- 7 Seminar & Project