

B-Tech Degree Applied Electronics& Instrumentation Engineering

Semester I

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

Semester II

- 1 English-II
- 2 Environmental Studies
- 3 Mathematical-II
- 4 Applied Physics
- 5 Fundamental of Computers
- 6 Basic Electronics
- 7 Engineering Drawing and Graphics
- 8 Applied Physics(Practical)
- 9 Basic electronics(Practical)

Semester III

- 1 Engineering Mathematics-II
- 2 Economics and Communications Skills
- 3 Network Theories
- 4 Solid State devices
- 5 Analog Circuits-I
- 6 Computer Programming
- 7 Analog Circuits Lab
- 8 Programming Lab

Semester IV

- 1 Engineering Mathematics-II
- 2 Principles of Management
- 3 Signals and Systems
- 4 Digital Electronics
- 5 Signal Communication
- 6 Analog Circuits-II
- 7 Analog Circuits II Lab
- 8 Digital IC Lab

Semester V

- 1 Engineering Mathematics-IV
- 2 Industrial Electronics and Applications
- 3 Basic Instrumentation & Recording System
- 4 Data acquisition System
- 5 Control Engineering –I
- 6 Microprocessors and Micro Controllers
- 7 Digital Signal Processing
- 8 Industrial Electronics Lab

Semester VI

- 1 Process Control Instrumentation
- 2 Industrial Instrumentation-I
- 3 Microcontroller based system Design
- 4 Control Engineering –II
- 5 Elective- Industrial safety engineering
- 6 Microprocessors & Microcontrollers Lab
- 7 Mechatronics
- 8 Mini Project

Semester VII

- 1 VLSI
- 2 Computerized Process control
- 3 Biomedical Instrumentation
- 4 Analytical instrumentation
- 5 Industrial Instrumentation II
- 6 Elective - Robotics
- 7 Industrial Instrumentation Lab
- 8 Seminar & Mini Project

Semester VIII

- 1 Instrumentation system design
- 2 Instrumentation in process industries
- 3 Computer Network
- 4 Elective - Advanced DSP
- 5 Elective – Bioinformatics
- 6 Elective - Industrial Pollution control
- 7 Process Control Lab
- 8 Project & Viva Voce