

B-Tech Degree Applied Electronics& Instrumentation Engineering

Semester I

- 1 Engineering Mathematics
- 2 Engineering Physics
- 3 Engineering Chemistry
- 4 Engineering Graphics
- 5 Engineering Mechanics

Semester II

- 1 Basic Civil Engineering
- 2 Basic Mechanical Engineering
- 3 Basic Electrical and Electronics Engineering
- 4 Basic Communication and Information Engineering
- 5 Engineering Workshops

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 Industrial Electronics Lab

Semester VI

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

Elective I

- 1 Mechatronics
- 2 Micro Electronics
- 3 Digital System design
- 4 Industrial safety engineering
- 5 Reliability Engineering

6 Energy management

Semester VII

1 VLSI
2 Computerized Process control
3 Biomedical Instrumentation
4 Analytical instrumentation
5 Industrial Instrumentation II
6 Elective II
7 Industrial Instrumentation Lab
8 DSP lab
9 Seminar
10 Project

Elective II

1 Robotics
2 Real Time system
3 Optimization techniques
4 Fuzzy Logic
5 Digital Image processing
6 Advanced microcontrollers

Semester VIII

1 Instrumentation system design
2 Instrumentation in process industries
3 Computer Network
4 Elective III
5 Elective IV
6 Process Control Lab
7 Project
8 Viva Voce

Electives III

1 Neural Networks
2 Advanced DSP
3 Embedded systems

- 4 Artificial Intelligence
- 5 VHDL
- 6 Bioinformatics

Electives IV

- 1 Total quality management
- 2 Human factors engineering
- 3 System Engineering
- 4 Professional Ethics
- 5 Industrial Pollution control
- 6 Simulation and modeling