B Tech (Instrumentation & Control 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 Communication Skills
3	Network Theory
4	Analog Devices & Circuits
5	Basic Instrumentation & Measurements Engineering
6	Computer Programming
7	Basic Electronics Laboratory
8	Programming Lab(C, C++ ,Mat lab)

Semester IV

1	Engineering Mathematics III
2	Principles of Management
3	Transducer Engineering
4	Digital Electronics
5	Electrical Engineering
6	Mechanical Engineering
7	Electrical Machines Laboratory
8	Digital IC Laboratory

Semester V

1	Engineering Mathematics IV
2	Industrial Electronics & Applications
3	Electronics Instrumentation
4	Linear Integrated Circuits
5	Linear Control System
6	Microprocessors and Microcontrollers
7	Microprocessors and Microcontrollers Lab
8	Linear Integrated Circuits Lab

Semester VI

1	Process Control Instrumentation
2	Principles of Telemetry & Communication
3	Industrial Instrumentation – I
4	Signals & Systems with Processing
5	Advanced Control Systems
6	Elective-I
7	Industrial Instrumentation Laboratory
8	Mini Project

Elective I

1	Mechatronics
2	Computer Networks & Projects
3	Advanced Microcontrollers
4	Embedded System Design
5	Digital System Design
6	Data Structures & Algorithm

Semester VII

1	Computer Control of Industrial Process
2	Optical and opto Electronic Instrumentation
3	Biomedical Instrumentation
4	Analytical Instrumentation
5	Industrial Instrumentation-II
6	Elective-II
7	Process Control Laboratory
8	Mechanical Measurements Laboratory
9	Seminar
10	Project

Elective II

1	Artificial Intelligence & Expert systems
2	Robotics & Automation
3	Embedded Instrumentation system
4	Ultrasonic Instrumentation
5	VLSI Design
6	Virtual Instrumentation

Semester VIII

1	Instrumentation System Design
2	Power Plant Instrumentation
3	Instrumentation & Control in Petrochemical Industries
4	Elective III
5	Elective IV
6	System Simulation Laboratory
7	Project
8	Viva voce

Elective III

1	Intelligent Control system
2	Automotive Instrumentation
3	Instrumentation & Control Paper Industries

4	Digital Image Processing Techniques
5	Instrumentation & Control in Aerospace & Navigation
6	Telecommunication & Switching networks

Elective IV

1	Test Engineering
2	Multimedia systems
3	Total Quality Managements
4	Bio Informatics
5	Intellectual Property Rights
6	Professional Ethics