



ADARSH MANAGEMENT INSTITUTE OF INDIA

B.Tech in Instrumentation Engineering

Course Name: B.Tech in Instrumentation Engg.

Duration: 4 Years

Eligibility: 10+2(PCM)

Lateral Entry: Candidate who has three year diploma after 10th can enroll for 3rd Semester of B.Tech. Candidate who has completed B.Sc (PCM) can enroll for 3rd Semester of B.Tech.

First Semester	Second Semester
1. Mathematics I 2. Chemistry 3. English -I 4. Electrical Technology 5. Introduction to Manufacturing Process 6. Applied Physics	1. Mathematics II 2. Programming and Data Structure 3. Basic Electronics 4. Engineering Drawing and Graphics 5. Environmental Studies
Third Semester	Fourth Semester
1. Applied Engineering 2. Mathematics III 3. Electrical Machines 4. Electrical Measurements & Instruments 5. Circuit Theory & Analysis 6. Electronic Devices & Circuits 7. Project I	1. Digital systems& microprocessor 2. Automatic control systems 3. Sensors & Transducers 4. Thermal & fluid 5. power Engineering 6. Linear Integrated circuits 7. Programming Technique –I
Fifth Semester	Sixth Semester
1. Fiber optics & communication 2. Advanced control systems 3. Industrial power electronics 4. Industrial Management 5. Analytical Instrumentation 6. Programming Technique –II	1. Microcontrollers & Applications 2. Industrial Automation – I 3. Process Instrumentation 4. Signals & systems 5. Programming Techniques -III
Seventh Semester	Eighth Semester
1. Advanced process Instrumentation 2. Instrumentation system design 3. Industrial Automation –II 4. Digital signal Processing 5. Elective I 6. Project - III	1. Field Instrumentation & Networks 2. Process Modeling & Simulation 3. Project Planning Estimation & Assessment 4. Elective II

Elective I	Elective II
1) Embedded Systems 2) Power Plant Instrumentation 3) Optimal & Robust Control 4) Mechatronics	1) Biomedical Instrumentation 2) Virtual Instrumentation 3) Neural & Fuzzy Based Control 4) Advanced Digital Signal Processing