



# ADARSH MANAGEMENT INSTITUTE OF INDIA

## B.Tech in Electronic Engineering

Course Name: B.Tech Electronic Engineering

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                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. Applied Science- I</li> <li>2. Engineering Drawing</li> <li>3. Electrical Circuits</li> <li>4. Programming in C</li> <li>5. Engineering Maths-I</li> </ol>                                                                                       | <ol style="list-style-type: none"> <li>1. Engineering Maths-II</li> <li>2. Applied Science-II</li> <li>3. Electronics Devices</li> <li>4. Introduction to Mechanics and Thermodynamics</li> <li>5. Communications Skills</li> <li>6. Programming in C++</li> </ol>                                         |
| Third Semester                                                                                                                                                                                                                                                                             | Fourth Semester                                                                                                                                                                                                                                                                                            |
| <ol style="list-style-type: none"> <li>1. Engineering Maths-III</li> <li>2. Discrete Electronics</li> <li>3. Digital Logic Circuits</li> <li>4. Electrical Network Theory</li> <li>5. Electronics Measurements and Instruments</li> <li>6. Electronics Materials and Components</li> </ol> | <ol style="list-style-type: none"> <li>1. Probability and Random Theory</li> <li>2. Numerical methods in Electrical Engineering</li> <li>3. Principles of Communications</li> <li>4. Analog Circuits</li> <li>5. Electromagnetic Wave Theory</li> <li>6. Computer Architecture and Organization</li> </ol> |
| Fifth Semester                                                                                                                                                                                                                                                                             | Sixth Semester                                                                                                                                                                                                                                                                                             |
| <ol style="list-style-type: none"> <li>1. Microprocessor and Microcontrollers</li> <li>2. Communication Filters</li> <li>3. Antenna and Wave propagation</li> <li>4. Control System</li> <li>5. Communication Skills-2</li> <li>6. Signals and Systems</li> <li>7. Project</li> </ol>      | <ol style="list-style-type: none"> <li>1. Microprocessor-II</li> <li>2. Digital Communication</li> <li>3. Digital Signal Processing</li> <li>4. Microwave Engineering</li> <li>5. Elective-I</li> <li>6. Mini Project</li> </ol>                                                                           |
| Seventh Semester                                                                                                                                                                                                                                                                           | Eighth Semester                                                                                                                                                                                                                                                                                            |
| <ol style="list-style-type: none"> <li>1. Computer and Communication Network</li> <li>2. Fiber Optics Communication</li> <li>3. Management for IT Professionals</li> <li>4. Elective-II</li> <li>5. Project</li> </ol>                                                                     | <ol style="list-style-type: none"> <li>1. Embedded Systems</li> <li>2. Wireless and Mobile Communication</li> <li>3. Elective-III</li> <li>4. Elective-IV</li> <li>5. Project</li> </ol>                                                                                                                   |
| Elective                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                            |
| <ol style="list-style-type: none"> <li>1. Database Management Systems</li> </ol>                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                            |

2. Software Engineering
3. Design and Analysis of Algorithms
4. Disaster Management
5. Project Management
6. Engineering Risk – Benefit Analysis
7. Infrastructure Systems Planning
8. Planning for Sustainable Development
9. Managing Innovation and Entrepreneurship
10. Global Strategy and Technology
11. Knowledge Management
12. Rural Technology and Community Development
13. Artificial Intelligence and Robotics
14. Cloud Computing
15. Digital Communication
16. Digital Signal Processing
17. Engineering System Analysis and Design
18. Engineering System Design Optimization
19. Engineering System Modeling and Simulation
20. Game theory with Engineering Applications
21. Supply Chain Management-Planning