



ADARSH MANAGEMENT INSTITUTE OF INDIA

B.Tech in Plastic Engineering

Course Name: B.Tech In Plastic 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
1. English I 2. Mathematics I 3. Physics I 4. Chemistry I 5. Engineering Graphics 6. Fundamentals of Computing 7. Project I	1. English II 2. Mathematics II 3. Materials Science 4. Chemistry II 5. Engineering Mechanics 6. Electrical Engineering 7. Manufacturing Process 8. Project II
Third Semester	Fourth Semester
1. Mathematics III 2. Environmental Science and Engineering 3. Engineering Thermodynamics 4. Fluid Mechanics and Machinery 5. Solid Mechanics 6. Electronics Engineering 7. Organic chemistry 8. Mechanical Sciences Lab 9. Electrical and Electronics Engineering Lab	1. Numerical Methods 2. Mechanics of Machines 3. Fundamental of Chemical Engineering Operations 4. Physical Chemistry 5. Basics of Polymers 6. Rubber Material 7. Polymer Science Laboratory 8. Machine Drawing
Fifth Semester	Sixth Semester
1. Plastics materials 2. Polymer physics 3. Rubber Compounding 4. Rubber Processing and Machinery 5. Latex Technology 6. Elective I 7. Project II	1. Engineering Plastics and Rubber 2. Physical Testing of polymers 3. Plastics Processing and Machinery 4. Product Design and Engineering Applications of Polymer 5. Computer Aided Product Design 6. Elective II 7. Design and Drawing of Moulds and Dies 8. Plastics Processing lab 9. Rubber Testing lab
Seventh Semester	Eighth Semester
1. Total Quality Management	1. Elective IV

2. Professional Ethics and human Values 3. Technology of Tires and Tubes 4. Polymer Composites 5. Polymer Recycling 6. Elective III 7. Plastics Testing lab 8. Design Project 9. Comprehension / Seminar 10. Industrial Training	2. Project Work
Electives	
1. Adhesives and Surface Coatings 2. Multiphase Polymer Systems 3. Rubber machinery 4. Plastics Machinery 5. Polymer Components in Automotive Applications 6. Engineering Materials in Polymer Products 7. Polymer Characterization Techniques 8. Footwear Technology 9. Finite Element Methods 10. Product Design and Cost Estimation 11. Experimental Stress Analysis 12. Design of Machine Elements 13. Engineering Economics and Financial Management 14. Purchasing and Materials Management 15. Entrepreneurship Development 16. Management Science	