ADARSH MANAGEMENT INSTITUTE OF INDIA

B.Tech in Polymer Engineering

Course Name: B.Tech In Polymer 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. Technical English 2. Physics I 3. Engineering Chemistry 4. Mathematics I 5. Engineering Mechanics	6. Mathematics II 7. Basic Electrical Engineering 8. Data Structure in C++ 9. Environmental Science 10. Physics II
Third Semester	**Fourth Semester**
1. Basic Electronics 2. Mathematics III 3. Introduction to System Theory 4. Thermal Engineering 5. Introduction to Polymer Engineering 6. Material Science (Poly / EEE / ECE)	7. Basic Polymer Chemistry 8. Fluid Mechanics 9. Macromolecular Science I 10. Chemical Engineering I 11. Heat Transfer 12. Computational Methods
Fifth Semester	**Sixth Semester**
1. Chemical Engineering II 2. Polymer Processing I 3. Macromolecular Science II 4. Strength of Materials 5. FEM and Stat 6. Polymer Technology I	7. Polymer Processing II 8. Die Mould Design & Fabrication 9. Elastomer Technology 10. Polymer Rheology 11. Polymer Characterization & Testing 12. Polymer Technology II
Seventh Semester	**Eighth Semester**
1. Computer Aided Polymer Processing 2. Polymer Reaction Engineering 3. Macromolecular Science III 4. Design of Plastics 5. Machinery Components 6. Surface Coating and 7. Adhesion Technology 8. Engineering Economy	1. Polymer Blends & Composites 2. Industrial Chemical Processing 3. Process Control and Instrumentation 4. Industrial Management 5. Fibre Science & Technology 6. Electives (Select any one from the following subject)
Elective	
1. Computer Aided Engineering & Design 2. Advanced Die & mould Technology	

3. Surface Coating & Paint Technology
4. Rubber Product Technology
5. Plastics Product Design & Rapid Prototyping
6. Polymer Composites
7. Functional Polymers
8. Polymer Recycling
9. Introduction to Nanotechnology