

# Polymers and Bio Systems Engineering

## M. Tech. Program (Self-Sponsored)



भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
Indian Institute of Technology Hyderabad

### INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD



### ADMISSION PROCEDURE

- ❑ Students admitted into the program will have a credit based fee system.
- ❑ Students will be admitted without scholarship.
- ❑ Admissions will be based on interview held at IIT Hyderabad.
- ❑ Admission into the program will be handled by IIT Hyderabad.

### ELIGIBILITY

- ❑ B.Tech/B.E in one of the following disciplines:
- ❑ Chemical Engineering, Mechanical Engineering, Materials Science and Metallurgical Engineering, Polymer Science and Engineering, Biomedical Engineering and Biotechnology
- ❑ Candidates should have a first class in their respective B.Tech/B.E disciplines.

### ABOUT THE PROGRAM

This is a truly interdisciplinary program combining several facets of modern soft materials and biological systems engineering. The program strives to expose the students to cutting-edge problems in industry and simultaneously provide them a strong fundamental understanding of the engineering principles involved. Lectures by industrial experts is an integral part of the program. The program features hands-on training on research projects that have potential applications in health care and allied sectors.

Students are encouraged to apply online at [www.iith.ac.in](http://www.iith.ac.in)

Dates for an interview at IIT Hyderabad will be intimated later to the shortlisted candidates

### PROGRAM STRUCTURE

The program spans four semesters:

#### Semester 1

Core Courses – 4	8 Credits
Electives – 2	4 Credits

#### Semester 2

Core Courses – 3	6 Credits
Mandatory Courses – 2	2 Credits
Electives – 3	6 Credits

#### Semester 3 & 4

Thesis	24 Credits
Total	50 Credits

The students is free to choose from a basket of elective courses

### Who can apply

If you are a bright motivated student and meet the eligibility criteria, visit us at

[www.pratham.iith.ac.in](http://www.pratham.iith.ac.in)

If you wish to know more about the fascinating area of polymers and bio systems engineering, please write to us at

[fic.mtech.pbs@iith.ac.in](mailto:fic.mtech.pbs@iith.ac.in)



Biotechnology

Chemical  
Engineering

Data  
Science

Materials  
Science

Mechanical  
Engineering



### CAREER PROSPECTS

Students graduating from this program are eligible for wide range of jobs in pharmaceutical and health sector. Students can also pursue PhD programs in reputed international institutions.

### RESEARCH FACILITIES

- ❑ AFM, Confocal and TEM
- ❑ Differential Scanning Calorimeter
- ❑ Gel Permeation Chromatograph
- ❑ Small Angle X-Ray Scattering
- ❑ Particle Analyzer
- ❑ IR and UV Spectrometers
- ❑ Cell Culture Facilities



IIT Hyderabad, Kandi,  
NH65, Sangareddy,  
502285, Telangana

[www.iith.ac.in](http://www.iith.ac.in)

# Polymers and Bio Systems Engineering

## M. Tech. Program



भारतीय प्रौद्योगिकी संस्थान हैदराबाद  
Indian Institute of Technology Hyderabad

### INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD



### ADMISSION PROCEDURE

- Admissions with MHRD fellowships will be based on GATE scores and AIR. GATE score is not required for IIT B.Tech/BDes candidates with CGPA above 8.
- Admissions without MHRD fellowships to self-sponsored category candidates will be based on interviews held at IIT Hyderabad and will be subject to credit based fee system.

### PROGRAM STRUCTURE

The program spans four semesters:

#### Semester 1

Core Courses – 4	8 Credits
Electives – 2	4 Credits

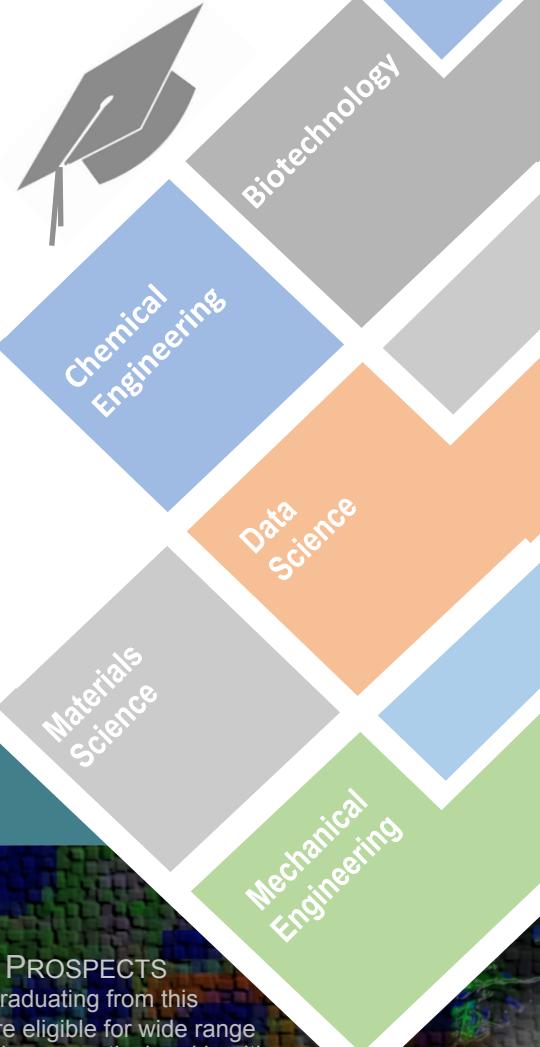
#### Semester 2

Core Courses – 3	6 Credits
Mandatory Courses – 2	2 Credits
Electives – 3	6 Credits

#### Semester 3 & 4

Thesis	24 Credits
Total	50 Credits

The students is free to choose from a basket of elective courses



### ELIGIBILITY

- B.Tech/B.E in one of the following disciplines: Chemical Engineering, Mechanical Engineering, Materials Science & Metallurgical Engineering, Polymer Science & Engineering, Biomedical Engineering and Biotechnology
- GATE qualification in one of the following: CH/ME/XE-C/XE-F/BM/B
- Sponsored category candidates do not need GATE score but should have a first class or CGPA of 7.0 or more in their respective disciplines.

### ABOUT THE PROGRAM

This is a truly interdisciplinary program combining several facets of modern soft materials and biological systems engineering. The program strives to expose the students to cutting-edge problems in industry and simultaneously provide them a strong fundamental understanding of the engineering principles involved. Lectures by industrial experts is an integral part of the program. The program features hands-on training on research projects that have potential applications in health care and allied sectors.

Students are encouraged to apply online at [www.iith.ac.in](http://www.iith.ac.in). Dates for an interview at IIT Hyderabad will be intimated later to the shortlisted candidates.

### Who can apply

If you are a bright motivated student and meet the eligibility criteria, visit us at <https://pratham.iith.ac.in>.

If you wish to know more about the fascinating area of polymers and bio systems engineering, please write to us at [fic.mtech.pbs@iith.ac.in](mailto:fic.mtech.pbs@iith.ac.in).

### CAREER PROSPECTS

Students graduating from this program are eligible for wide range of jobs in pharmaceutical and health sector. Students can also pursue PhD programs in reputed international institutions.

### RESEARCH FACILITIES

- AFM, Confocal and TEM
- Differential Scanning Calorimeter
- Gel Permeation Chromatograph
- Small Angle X-Ray Scattering
- Particle Analyzer
- IR and UV Spectrometers
- Cell Culture Facilities



IIT Hyderabad, Kandi,  
NH65, Sangareddy,  
502285, Telangana