

Introduction

The Centre for Polymer Science and Engineering, IIT Delhi is one of the foremost and best in the country in terms of the expertise and facilities available for teaching and research in the emerging area of Polymers. The center is known for research and projects in processing of polymers, compounding of polymers, polymer synthesis, polymer blending, polymer composites, nano composites, and other areas related to polymers.

Courses

The course is spread over a duration of 2 years made up of four semesters during which a student has to complete a total of 60 credits. Maximum weight age is given to the project work undertaken by the student.



Students of this center are master in Polymer rheology, Polymer processing, Polymer Characterization, Polymer Chemistry, Polymer Blends, Polymer technology, Polymer physics, Polymer compounding, Engineering Plastics & Specialty Polymer, Injection Molding & Mould Design.

The flexible course structure of IIT allows the students to take courses as per their capabilities and interests. Option of open electives enables students to take courses of other departments/centers in the IIT. The students are graded on a 10 point scale and it is necessary for the students to get 6.0 to continue the course. The students of the centre have been averaging above 7.0 CGPA and the current batch is clocking above 7.5.

Why polymer science

It runs postgraduate programme, M.Tech. & Ph.D. in Polymer science and engineering. This is an interdisciplinary program with students from B.Tech/B.E in Chemical Engineering and MSc. Chemistry. The curriculum of the students in the centre is planned around the industry and their needs for processing, compounding, and R&D peruse vis-à-vis the latest international trends. Specific importance is given to the practical applications of the concepts that are taught in the classrooms. Most modern laboratories, workshops, industrial visits, lectures from industry, experienced speakers are some of the tools employed for the purpose. Students are encouraged to pursue research areas for their final year projects on topics that are the need of the hour and of future industry importance. Considerable work is being undertaken in the fields of Nano Composites. Student in center are working on design of new polymeric material for commodity and engineering products.

Over professor Over professor

❖ **Ghosh A.K.**

[Ph.D. (SUNY, Buffalo)]

Professor

Head

E-mail: hodcpse[at]polymers.iitd.ac.in

Area of Interest: Rheology and Processing of Polymers, Reactive Processing, Polymer Blends and Alloys, Mixing and compounding, Polymer Reaction Engineering, Computer Aided Modelling and Simulation.

❖ **. Choudhary Veena (Ms.)**

[Ph.D. (IIT/D)]

Professor

E-mail: veenac[at]polymers.iitd.ac.in

Area of Interest: Polymer Chemistry, Degradation and Stabilization of Polymers, High Temperature Polymers, High Temperature Polymers, Polymer Blends and Composites, Flammability of Plastic Materials

❖ **Maiti S.N.**

[Ph.D. (Calcutta)]

Professor

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Area of Interest: Plastics and rubber compounding, mechanical, thermal and rheological properties of polymers, structure-property relations in polymer blends, alloys & particulate and fibre reinforced polymer composites.

❖ **Jacob Josemon**

[Ph.D. (IOWA State University)]

Assistant Professor

E-mail: jacob[at]polymers.iitd.ac.in

❖ **Dr. Naresh Bhatnagar**

Associate Professor

Mechanical Engineering Department

AREAS OF RESEARCH:- FRP Composite Materials, Processing and Manufacturing, Machining of Traditional and Non-Traditional Materials, Injection Molding & Mold Design, Biomaterials

❖ **Bijwe J.**

[Ph.D. (IIT/D)]

Professor

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Area of Interest: Tribology Polymer Composites, Oil Analysis for Condition Monitoring.

❖ **Ray A.R.**

[Ph.D. (Delhi)]

Professor

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**Area of Interest: Biomaterials, Vaccines and Drug Delivery,
Tissue Engineering, Polymer Science.**

❖ **Singh Harpal**

[Ph.D. (IIT/D)]

E-mail: [hodcbme\[at\]cbme.iitd.ac.in](mailto:hodcbme@cbme.iitd.ac.in)

**Area of Interest: Biomaterials, Synthetic Polymers for Biomedical
Application, Polymer Chemistry.**

❖ **B.L.Deopura**

Ph.D. (IIT/K)

**Area of Interest: Fibre Science & Technology, Fibre, Film and Tape
Production and Composites.**

Lab & facilities

- Polymer processing lab.
- Polymer Chemistry lab.
- Polymer Characterization
- Polymer Testing Lab.
- Polymer Morphology Testing Lab.
- Polymer Computer lab

Contact

For queries you can always reach us

Faculty in charge:

Prof. Ghosh A.K.

Head

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CPSE nucleus committee

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