A MESSAGE FROM THE HOD

The sustenance and growth of the industry depends on the regular supply of quality human resources. The Department of Chemical Engineering at IIT Kanpur provides a rigorous academic curriculum and a vibrant learning environment to prepare quality students at the Bachelors, Masters and Doctoral level for the challenges of the industry. With the cutting edge research undertaken by the faculty in areas of core Chemical Engineering and various interdisciplinary areas, in tandem with R&D processing industries in India and abroad, the Department continues its legacy as a premier seat of professional education. This is attested by our alumni who have distinguished themselves in the academia, industry and entrepreneurship. The current batch of students will continue in this rich tradition and will be valuable assets to the organizations.

Animangsu Ghatak
Professor and Head
Dept. of Chemical Engineering
IIT Kanpur
About Us

The Department of Chemical Engineering at IIT Kanpur is ranked among the nation's top schools in Chemical Engineering. Aside from excellence in fundamental research, the department has made significant contributions to the chemical industry through its expertise in chemical process engineering, simulation, optimization and control, polymers, interfacial phenomena and separations.

Experimental research in the department is supported by state-of-the-art facilities which include Scanning Tunneling and Atomic Force Microscopes, Ellipsometer, Rheometers, Optical Profilometer, etc. IIT Kanpur was chosen by the Department of Science and Technology (DST) as one among the five places in India to have operational state-of-the-art Nano-technology centre, which is located in the Department of Chemical Engineering. Under the auspices of the FIST scheme of DST, several new facilities has been established.
In addition, the Unit Operations, Process Control & Design Labs and other course projects involving various tools, like MATLAB, COMSOL, ASPEN PLUS, HYSYS and FLUENT, equip the student with sufficient practical skills.
Dr. Goutam Deo
(Catalysis and reaction engineering, Supported catalysts, Reaction kinetics)

Dr. Nitin Kaistha
(Process modelling, Simulation and control, Plantwide control system structure synthesis, Control of reactive distillation columns)

Dr. Anigmansu Ghatak
(Adhesion and friction on soft interfaces, Fracture of soft thin sheets, Bio-inspired approaches in design of engineering materials)

Dr. Ashutosh Sharma
(Confined Soft Materials, Nanomechanics, Meso-Patterning, Colloids and Interfaces, Wetting and Adhesion, Functional Interfaces)

Dr. V. Shankar
(Stability of fluid flows, Rheology of complex fluids)

Dr. Nishith Verma
(Adsorption, Synthesis of nanomaterials including adsorbents & catalysts, Environmental pollution control (air/water purifications), Carbon-based electrodes, Lattice Boltzmann modelling & simulation)

Dr. Sanjeev Garg
(Bioinformatics, Bioremediation, RNA Interference, Computer Aided Product and Process Design, Flexibility Analysis of Chemical and Biological Systems)

Dr. Siddhartha Panda
(Chemical sensors, Lab-on-a-chip, Micro/nano fabrication, Microfluidics, Materials processing for microelectronic and display technologies)

Dr. Jayant K. Singh
(Thermodynamics, Selective adsorption and separation, Energy storage materials, Wetting transition, Self assembly and crystallization at nanoscale)

Dr. Yogesh M. Joshi
(Rheology, Polymer science and engineering and Fluid mechanics)
Collaborators and Sponsors

State of the Art Facilities

- Rheometer, Anton-parr Rheometer
- Polarized Optical Microscope
- Micro-PIV
- Atomic Force Microscope
- Optical Profilometer
- Real time PCR
- Confocal laser scanning microscope
- Atomic Absorption Spectroscopy
- Dispersive Raman Spectrometer
- Nano Imprint Lithography
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