

Chemical Engineering is a constantly evolving discipline which keeps pace with the developing world. Our department reflects this in its teaching curriculum, research focus, industry partnerships and entrepreneurial initiatives.

In the department, we endeavour to keep up with the current trends of the needs of industry and society at large through our research and consultancy projects, while maintaining a firm grounding in the fundamentals.

We have now embarked upon a very focused internship program for M.Tech. students that is aimed at helping them get an experience of working in core chemical and process industry and also an avenue that may help them seek gainful employment. In line with this we also have courses that focus specifically on the industry experience.

Our academic and research programs are also designed to prepare the students for a wide range of avenues for students to choose their career path. These include employment in industry or further



Prof. Ravikrishna R.
Head of the Department



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research as part of a PhD program either in IIT Madras or elsewhere. With an average of 5-6 Ph.D. students and 1-2 PDFs per faculty, research groups are now reaching critical mass.

Faculty from our department are also involved in a number of inter-disciplinary centres of excellence and students can get to be a part of one of these.

In addition to being ranked as the top engineering school in India, IITM has also been recognized as one that has the best innovation/ incubation ecosystem. Nearly 20% of the faculty in ChE are actively involved in start-up's, facilitated by IIT Madras Research Park located next door.

Programmes (M.Tech.)

- Chemical Engineering
- Catalysis Technology (*Interdisciplinary programme*)

Research areas

Energy and Materials

- Conventional energy
- Renewable and Unconventional

Environment

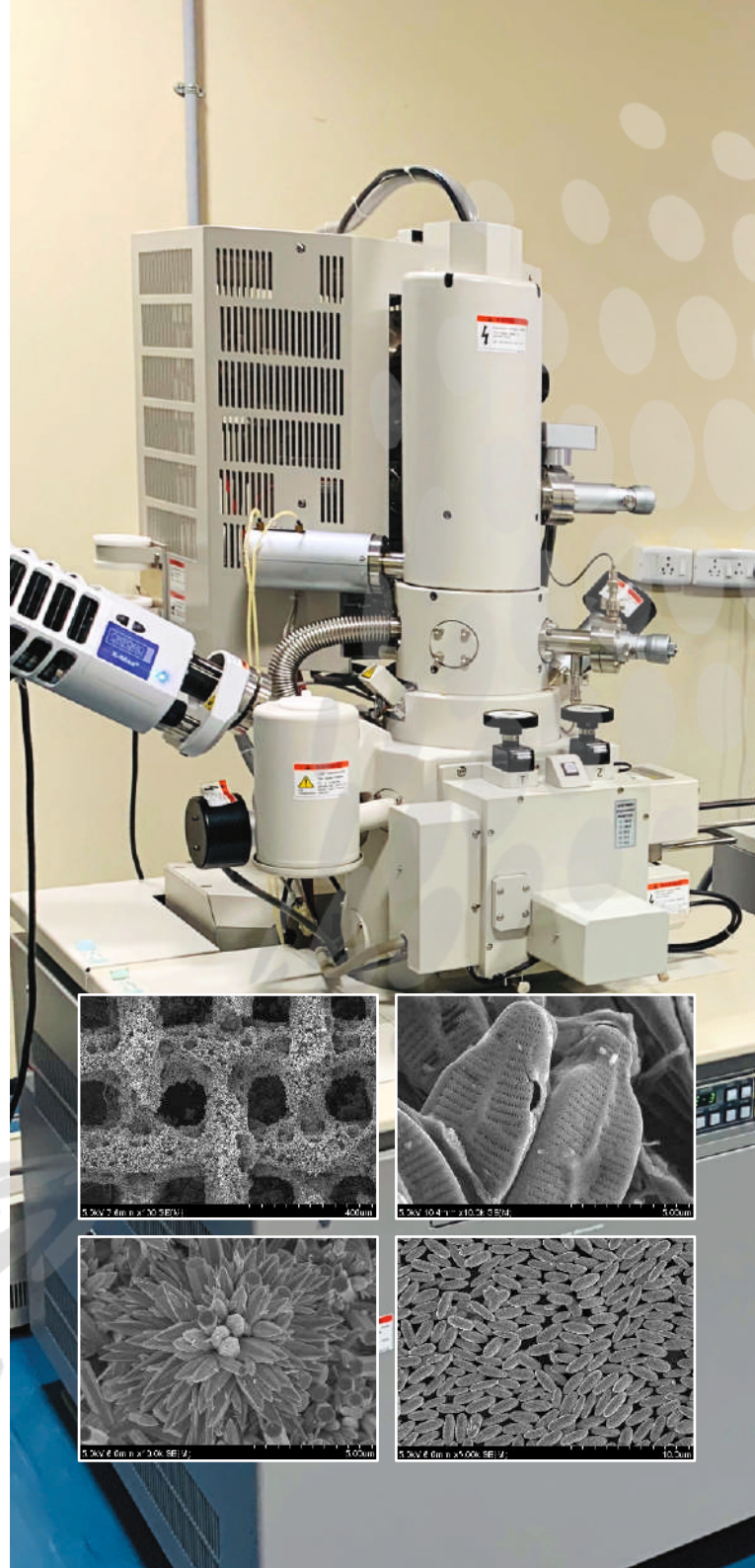
- Development of processes and materials for the management of waste and environmental resources
- Fate and transport of pollutants in the environment

Molecular Simulations

- Computational material science
- Physics, chemistry and mechanics of materials
- Materials for energy & environment
- Computational material science

Process Intensification

- Efficient equipment design
- Use of external energy source
- Advanced processes





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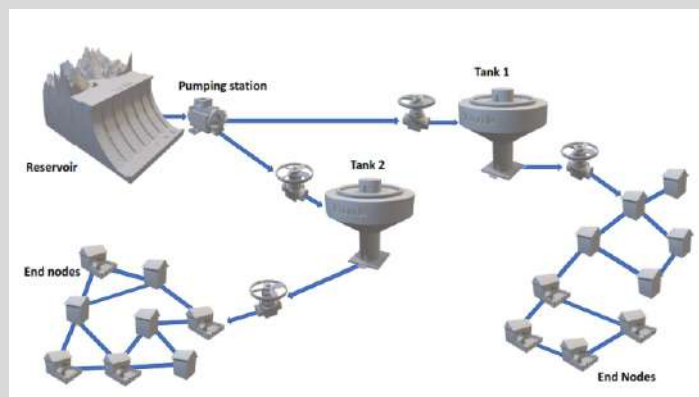
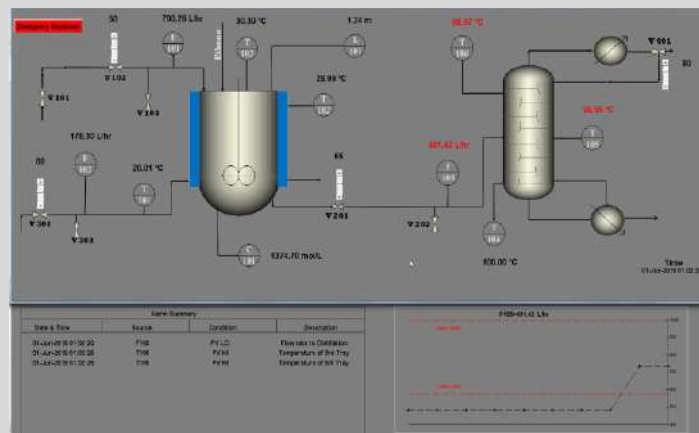
Process systems engineering

- Systems Engineering and Data Sciences
- Integrated Process Manufacture
- Systems Biology
- Energy and Water Systems

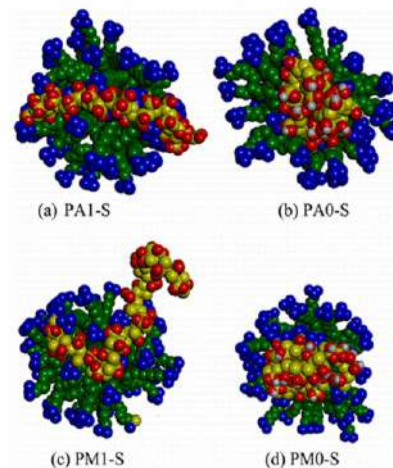
Placements

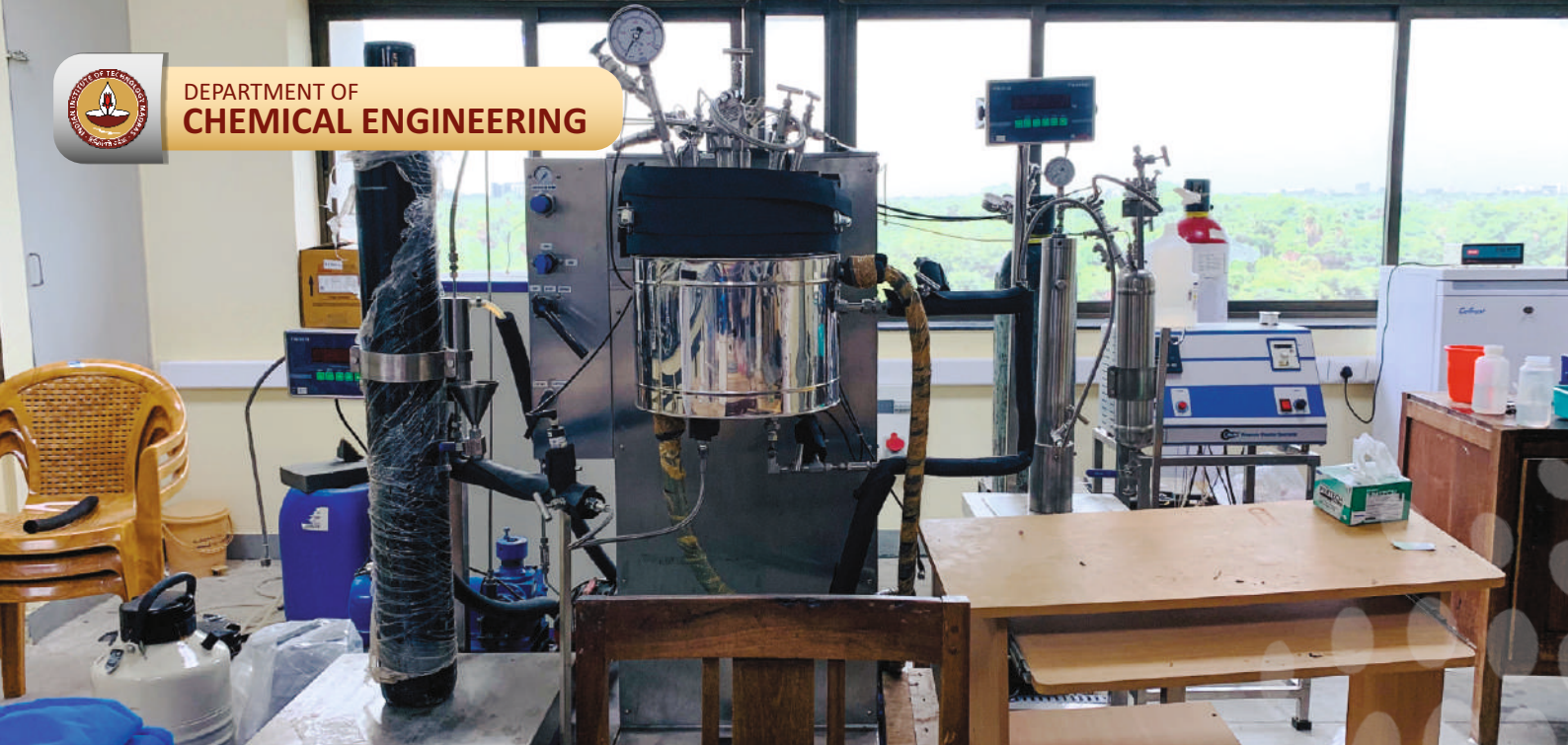


TATA
CONSULTANCY
SERVICES



PAA adsorption on surfactant micelle





Faculty

Dr. Abhijit P. Deshpande
Dr. Arun K. Tangirala
Dr. Aravind Kumar Chandiran
Dr. Basavaraj M. Gurappa
Dr. Ethayaraja Mani
Dr. Himanshu Goyal
Dr. Jitendra Sangwai
Dr. Jithin John Varghese
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