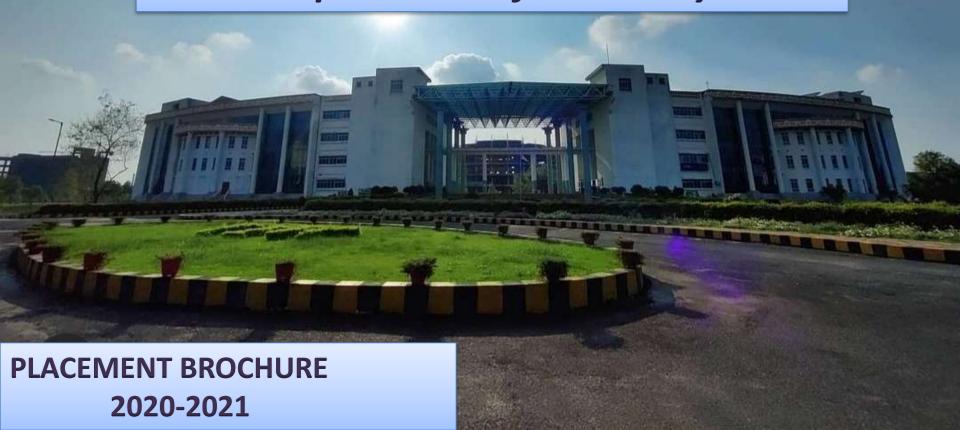


INDIAN INSTITUTE OF TECHNOLOGY

PATNA

Department of Chemistry



Message from

The Head of Department

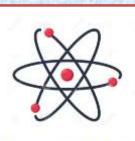
"The Department of Chemistry at IIT Patna has been engaged in imparting the highest level and quality of Chemistry education to engineering and science students of the institute since the inception of the institute in 2008. The department has several state-of-the-art instruments to support cutting-edge research activities. Moreover, students and researchers in the department have access to sophisticated research facilities in other departments and centers across the Institute.

Since its inception, the department has attracted world class faculty members, who are involved in all major areas of Chemistry research. Several chemistry dept. faculty members are also engaged in inter-disciplinary research spanning fields such as biochemistry, physics, computation etc.

I highly value our partnership with recruiters and friends of IIT Patna and remain committed to making your recruiting experience productive and positive. I invite the recruiting organizations and graduating students to find the best match between their needs and capabilities."



Dr. Sahid Hussain



CONTRACTOR OF THE PARTY OF THE

ABOUT US

"The Department of Chemistry in IIT Patna has been established since the setting up of the Institute in 2008. The department started the PhD program in Chemistry from July 2009. A vibrant multidisciplinary research program in the Department of Chemistry at IIT Patna is supported by energetic faculty members and state-of-the-art research facilities.

The faculty members of the department are committed to quality teaching and research. With a strong foundation in the conventional areas and quest for emerging areas of Chemistry, faculty and students are engaged in a range of dynamic research programs that include Supra molecular Organic synthesis, Catalysis, high resolution and Bio-Spectroscopy, Polymer and Biochemistry."



ON GOING RESEARCH



- Synthesis of modified sugar, glycosyltransferase inhibitors, Oligosaccharides and Chiral catalyst.
- Application of Metal catalysis in the synthesis of natural products and Medicinal useful Pharmacophores.
- •Photophysics, Chemical Dynamics, Ionic liquids.
- •Diversity Oriented Synthesis (DOS) using multicomponent reactions (MCRs), the discovery and development of new synthetic methods with particular interest in heterocyclic chemistry and total synthesis of various biologically active natural products and structural analogues.
- Self-assembly and Supramolecular Chemistry, Organic Synthesis, Inorganicorganic hybrid material synthesis, Coordination polymers / Metal organic framework (MOF), Polymer Chemistry - syntheses/characterization/applications.
- Spectroscopy, Computational, Instrumentation development, Physical Chemistry, Nano-scale Materials, Green Chemistry and Synthetic Organic Methodologies.
- •Quantum reactive scattering of gas phase bi-molecular reactions, nonadiabatic coupling effects, geometric phase effects, nuclear spin symmetry effects, isotopic effects, spectral attributes of quasi-bound states, construction of potential energy surfaces.

FACULTY



Dr. Sahid Hussain

Head of Department

Associate Professor



Dr.Neeladri Das Associate Professor



Dr.Amit Kumar Associate Professor



Dr. Prolay Das Associate Professor



Dr. T. Rajagopala Rao Asst. Professor



Dr. Debabrata Seth Associate Professor



Dr. Ranganathan
Subramanian
Associate Professor



Dr. Debajit Sarma Asst. Professor



Dr. Md. Lokman Hakim
Choudhury
Associate Professor



Dr. Snehasis
Daschakraborty
Asst. Professor



Dr. Subrata Chattopadhyay Asst. Professor

COURSES OFFERED

- Thermodynamics for chemist
- Modern methods of analysis
- Principle of molecular
 Spectroscopy
- •Chemistry of transition transition metal metals
- •Reagents and tools in organic chemistry

- Computer in chemistry
- Chemical kinetics
- Concepts in organic chemistry
- Organometallic and bioinorganic
 Chemistry of transition metal
- Polymer chemistry

- Physical chemistry lab
- Inorganic chemistry lab
- Organic chemistry
 lab
- Chemical process modelling and simulation
- •Supramolecular chemistry

- Quantum chemistry
- Principle of organic chemistry
- •Chemistry of s and p block element
- Symmetry and group theory for chemists
- Biochemistry

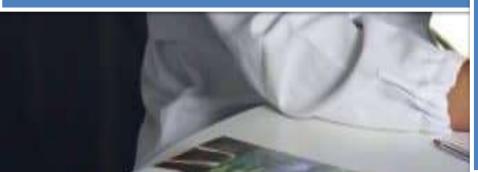
LAB FACILITIES



- •UV & Visible Spectrophotometer from Shimadzu
- FTIR from Shimadzu
- Spectrofluorometer from Horiba Jobin Yuon
- Digital Polarimeter from Jasco
- •Particle size and zeta potential analyzer from Beckman Coulter
- Viscometer from Brookfield
- •Microwave synthesizer from Anritsu
- •Glove box from Jacomex
- Rotary evaporator from Buchi



- •Millipore water purification system
- Hot air Oven from Sonara
- •SDT (simultaneous DTA-TGA) from TA
- Dynamic Mechanical Analysis (DMA) from TA
- •FTIR with spotlight 200 microscope from Perkin Elmer
- Atomic Force Microscope
- •XRD Machine
- NMR Spectrometer



OUR ACHIEVEMENTS

- •Faculties are working on several projects under important bodies of government and private sectors namely CSIR, DST Fast track, SERB-DST etc.
- •Our research scholars have successfully secured positions up to post doc like The university of Akron, Ohio, USA, Laboratoire Interactions, Dynamiques et Lasers CEA Saclay, 91191 Gif-SUR-Yvette France, Chalmers university, Sweden, etc
- •Many have been recruited into various teaching institutions and research labs.

Faculties have also represented in national/internatio nal conferences like

- •Tetrahedron Symposium Asia Edition, Taipei, Taiwan November 27-30, 2012
- •6th EuCheMS (The European Association for Chemical and Molecular Sciences) conference on Nitrogen Ligands held in Beaune France (13-17th Sept, 2015)
- •15th Asian Chemical Congress (15ACC) 2013 held in Singapore
- •5th EuCheMS Conference on Nitrogen Ligands, University of Granada, Spain (4th-8th September, 2011
- •Metal Carboxylates Coordination Polymers, 7th June, 2010 at Institute of Inorganic Chemistry, Albrechts University, Kiel, Germany
- •20th European Conference on the Dynamics of Molecular Systems, MOLEC- 2014", August, University of Gothenburg.

And many more ...

WHY RECRUIT US?



"M.Sc. In Chemistry, Department of Chemistry at IIT Patna, through its rigorous and interdisciplinary curriculum, satisfies the need for sophistication required for modern scientific investigations and technological developments."

Post graduates of this course will be ready for careers in pharmaceutical industry, chemical industry, and government organisations. Because of their excellent programming and analytical skills, the students would also be good fits in software industry, finance and insurance sector. Our Industrial Placement programme is a way to exchange new ideas combined with fresh enthusiasm and knowledge of the latest technology, the opportunity to encourage and invest in future leaders

The degree course gives a firm foundation in Theoretical and Practical Chemistry along with computational and programming skills. In particular, Quantum Chemistry, Statistical Mechanics and Computational Chemistry. Our students are also competent in a wide variety of programming languages and software tools directly relevant to industry



TRAINING AND PLACEMENT CELL IIT PATNA

CONTACT US



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