

About the Department

The Department of Chemistry in IIT Patna has been established since the setting up of the Institute in 2008. 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.

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 Supramolecular Chemistry, Target and Diversity oriented Organic synthesis, Nanochemistry, Catalysis, high resolution and Bio-Spectroscopy, Polymer and Biochemistry, Solid state chemistry and many more.

Message from HOD



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 organisations and graduating students to find the best match between their needs and capabilities.

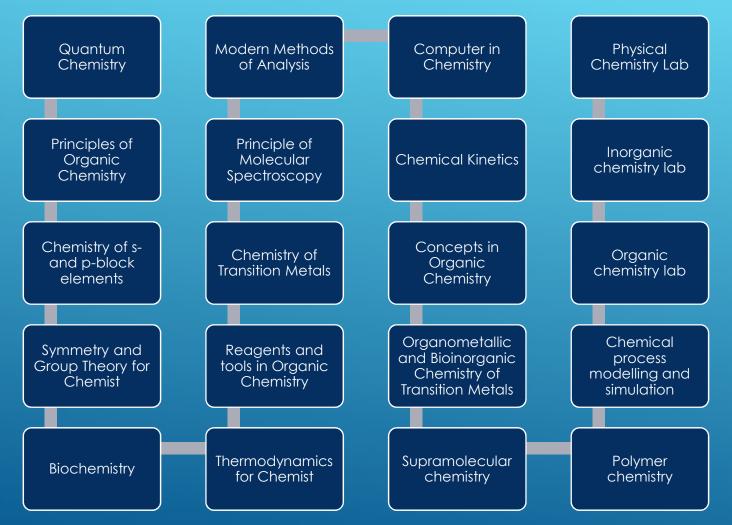
Dr. Neeladri Das
Associate Professor
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Indian Institute of Technology, Patna

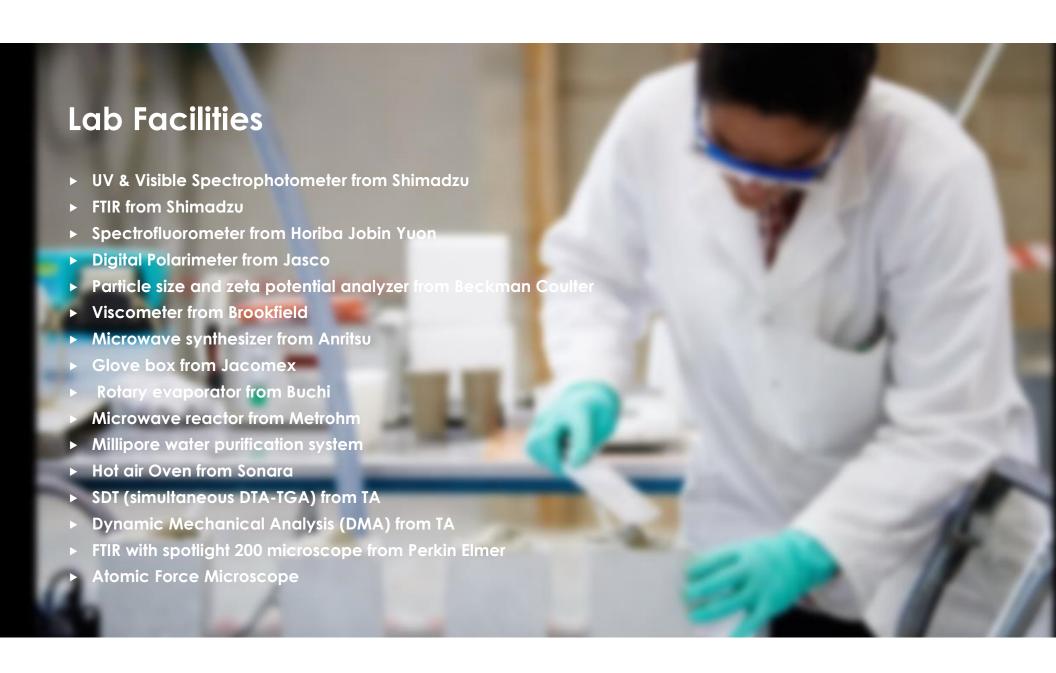


On Going Research

- 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, Inorganic-organic 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, non-adiabatic coupling effects, geometric phase effects, nuclear spin symmetry effects, isotopic effects, spectral attributes of quasi-bound states, construction of potential energy surfaces.
- Studies of reaction and relaxation processes in complex chemical and biological systems using theory and computer simulation technique.
- Coordination polymer, solid state chemistry, Chalcogenide and chalcogel based materials, oxide materials, energy conversion and catalysis.
- Polymer chemistry, nanomaterials and surface engineering.

Courses offered





Our Achievements

Faculties are working on several projects under important bodies of government and private sectors namely CSIR, DST Fast track, SERB-DST etc

Faculties have also represented in national/international conferences like 13th 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 (Aug 19-23, 2013), 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 24-29, 2014, University of Gothenburg, Gothenburg, Sweden and many more.

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

Why Recruit Us

Coming from IITian background, we simply not only learn the courses which is essential for everyone but we also get strength, determination and fearlessness and other synchronised qualities which makes us to challenge every situation in most professional way whether it is research, industry organisation or academics. We simply believe in actions not just words. By recruiting us, you will assured of the very best among the bests.



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