



# INDIAN INSTITUTE OF TECHNOLOGY PATNA

## *Department of Chemistry*

PLACEMENT BROCHURE  
2023-2024



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# VISION :

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- To create, disseminate and translate knowledge in science and allied disciplines through cutting edge research activities that will best serve the society.





# ABOUT US

- The Department of Chemistry in IIT Patna has been established since the setting up of the Institute in 2008. It is one of the premier departments of the institution.
- 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.
- Contributes to the research and industry problems related to societal importance.
- 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 BioSpectroscopy, Polymer and Biochemistry.



# ONGOING PROJECTS:

- 1. Dr. Amit Kumar

"Amides and Imidates a Versatile Synthon for Organic Chemists: A Synthetic Exploration for Biologically Relevant Functionalized Organic Molecules, Scope and Mechanism."

"Glycodiversification: Design and Synthesis of Biologically Important Conformationally Constrained NonClassical Bicyclic Sugars via Activation of C(sp<sup>3</sup>)-H bonds."

- 2. Prof. Lokman Hakim Chaudhary

"Design and Development of Visible Light-Driven Multicomponent Reactions Using Organophotocatalysis"



# COURSE OFFERED

• Computer in chemistry

• Chemical kinetics

• Concepts in organic chemistry

• Organometallic and bioinorganic Chemistry of transition metal

• Polymer chemistry

• Quantum chemistry

• Physical chemistry lab

• Inorganic chemistry lab •

Organic chemistry lab

• Chemical process modelling and simulation

• Supramolecular chemistry

• Biochemistry

• Thermodynamics for chemist

• Modern methods of Analysis

• Principle of molecular Spectroscopy

• Chemistry of transition metals

• Reagents and tools in organic chemistry •

Chemistry of s and p block element

• Nanotechnology in medical science

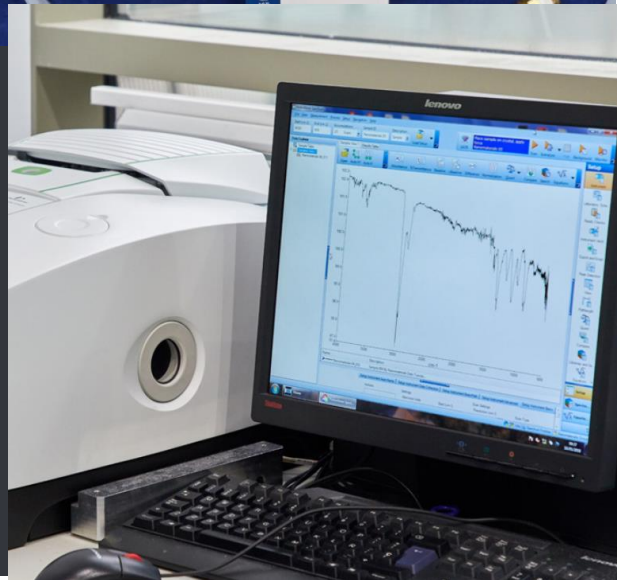
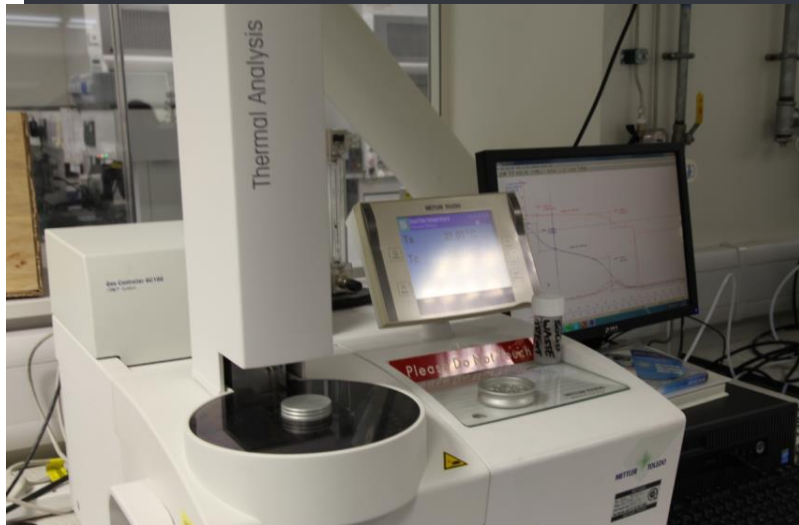
• Art in Organic synthesis

• Principle of organic Chemistry

• Symmetry and group theory for chemists



# LABORATORY FACILITIES



# Laboratory Facilities



- The Department of Chemistry has excellent facilities including a wide range of sophisticated instruments offering technical support to the research activities.
- UV & Visible Spectrophotometer.
- FTIR.
- Digital Polarimeter.
- Viscometer.
- Microwave synthesizer.
- Glove box
- Microwave reactor
- Millipore water purification system.
- Sp
- Particle size and zeta potential analyser.
- Mic
- Rotary ev





# LABORATORY FACILITIES

- Hot air Oven
- SDT (simultaneous DTA-TGA).
- Dynamic Mechanical Analysis (DMA)
- FTIR with spotlight 200 microscope from Perkin Elmer
- Atomic Force Microscope
- XRD Machine
- NMR Spectrometer

# WHAT WILL WE PROVIDED?

Highly dedicated students towards work.

Students with 1 year project experience in computational field, synthetic field.

CSIR NET and Gate qualified students.

Hand on hand practical experienced students.

Students with 2 month internship in Institute/ Industry .

Extensive Coursework

Soft Skills ,Scientific writing skills,IPR Skills .



# Contact us

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