

## About the Department

The department was established in 2004 and is well-known nationally and internationally for its excellence in both academic and research activities. The department is equipped with *state-of-the-art* instrumentation facilities and research laboratories. The department comprises 22 highly qualified faculty members, who are recipients of many awards, several research grants from national & international agencies, and are engaged in various national & international collaborations.

## Research Focus

- **Inorganic & Bio-Inorganic Chemistry**
- **Organic Chemistry**
- **Physical Chemistry**
- **Computational & Theoretical Chemistry**
- **Biosensors & Bioanalytical Chemistry**
- **Chemistry of Nanomaterials**
- **Molecular Sensors & Devices**
- **Energy & Environment**
- **Green Chemistry & Catalysis**
- **Supramolecular Chemistry**
- **Solid State Chemistry**

## Instrument Facilities

### Department Facilities:

AFM, FTIR, GC-MS, LC – MS, CHNS, Benchtop NMR, Microwave reactor, Powder XRD, Ion Chromatograph, Flash Chromatograph, TOC, Fluorimeter, Electrochemical workstation, Polarimeter, BET, Dell Server & Softwares

### Institute Facilities:

FESEM, LCMS, Confocal Microscope, Raman Spectrometer, PXRD, NMR, Zeta/Nano Particle Analyzer etc.

## Faculty Members of the Department



**Prof. S. Bhand**  
Biosensors  
Environ Analysis  
Food safety



**Prof. R. N. Behera**  
Theoretical & Computational Chemistry



**Prof. T. L. Thomas**  
Polymers  
Fluorescence



**Prof. N. N. Ghosh**  
Nanomaterials  
Energy storage  
Catalysis



**Prof. A. Chattopadhyay**  
Theoretical & Computational Chemistry



**Prof. P. Bhavana**  
Porphyrins & Electrocatalysis



**Prof. R. N. Panda**  
Solid-State Chemistry & Nano-Magnetism



**Prof. Rashmi Chauhan**  
Polymers  
Green materials



**Prof. K.P. Jayadevan**  
Metal Oxides  
Electronic Structure



**Prof. H. Prakash**  
Bio-Inorganic Chemistry  
Photochemistry  
Water Research



**Prof. M. Banerjee**  
Organic Synthesis  
Green Chemistry,  
Mechanochemistry



**Prof. A. Chatterjee**  
Molecular Sensor  
Nanosensor  
Green Chemistry



**Prof. R. Dey**  
Thermophysical Properties  
Renewable Energy



**Prof. S. Banerjee**  
Organic Fluorophores  
Porphyrins



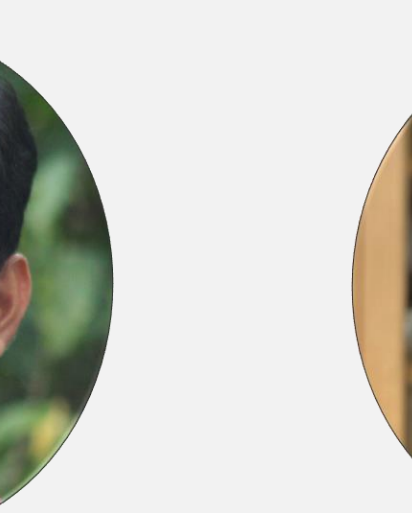
**Dr. S. Roy**  
Peptide & Supramolecular Chemistry



**Dr. K. Vankayala**  
Materials  
Electrochemistry  
Solar fuels



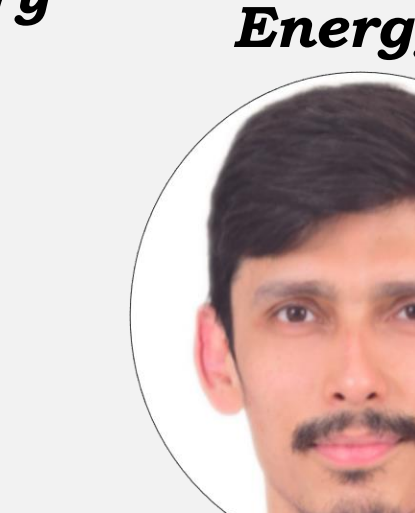
**Dr. S. Chatterjee**  
Inorganic & Bio-inorganic Chemistry



**Dr. W. Sinha**  
Bio-Inorganic Chemistry  
Renewable Energy



**Dr. U. Basu**  
Bio-Inorganic & Medicinal Chemistry



**Dr. S. Bhattacharya**  
Framework Materials,  
Catalysis



**Dr. S. K. Nandi**  
Biophysical Chemistry



**Prof. Sanjay Kumar**  
Organic Chemistry, Natural Product Chemistry, Medicinal Chemistry, Drug Discovery & Development

## Programs Offered

**M.Sc. in Chemistry**  
**Ph.D. in Chemistry**

## Fellowship and Accommodation

**INR 37,000 / 42,000 per month is offered to Ph.D. scholars for 5 years along with contingency and hostel accommodation as per the University norms.**

## Detailed Advertisement

<https://www.bitsadmission.com/index.aspx>

This website link & QR code describe the admission modalities for the **on-campus** degree programs offered in our university as well as in the department.



## Department Website

<https://www.bits-pilani.ac.in/goa/goaChemistry/DepartmentofChemistry>



## Publications, Funding and Collaborations

- We publish articles in peer reviewed journals of highly reputed publishing houses, such as American Chemical Society, Royal Society of Chemistry, Wiley, Elsevier, Springer, Frontiers, Cell Press, etc.
- Several national and international patents (>10 granted patents) have been filed by our department
- Our department has established 10+ Industry-Academia collaborations
- We have received several extramural research fundings from different national (such as DST, SERB, DBT, CSIR, DRDO, BRNS, ICMR, ICAR, DSTM-Goa etc.), international (e.g., The Royal Academy of Engineering, DST-Horizon, Indo-EU, DST-UKIERI, Swedish research council, INDO-Swedish projects etc.) funding agencies as well as from Industries (Birla Carbon, Tea board, Kwality photonics etc.)
- The department has active collaborations with renowned Universities: IITs, IISERs, University of Leeds, Lund University, University of Heidelberg, University of Cyprus, University of Tennessee etc.
- Our department has partnered with University of Tartu, Estonia under EACH Erasmus+ program

## Opportunities and Outreach Activities

- National and international level Workshops/Conferences are regularly organized that facilitate student-scientist interactions leading to innovative research ideas
- Invited lectures by eminent speakers of national and international repute are conducted in the department
- The department supports students to present their research results in leading national and international conferences and to attend scientific workshops



- Outreach activities are regularly taken up throughout the year to promote science and innovation among the students, teachers and faculties of local schools, colleges and universities
- The department's student association plays a key role in promoting scientific awareness among the curious kids from local schools

## Contact us

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