

BITS Pilani, a deemed to be university, has been recognized as an "Institute of Eminence" (IoE) by MHRD, Govt. of India

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



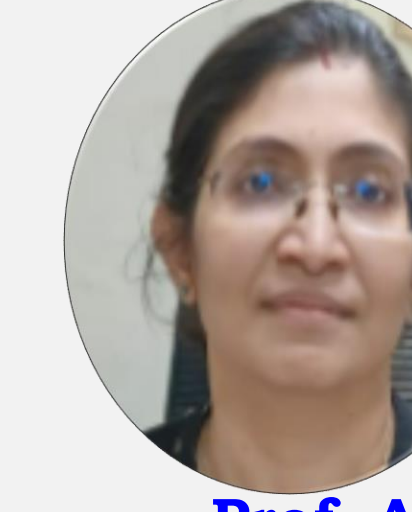
Prof. K.P. Jayadevan
Metal Oxides
Electronic Structure



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



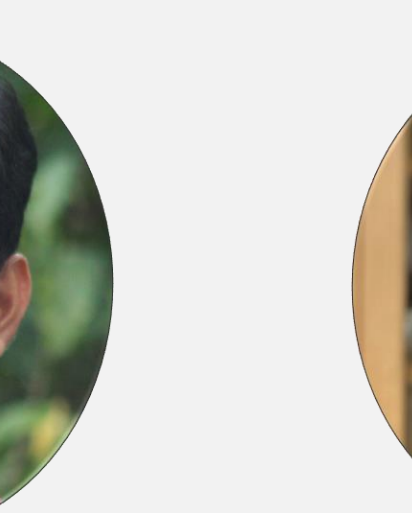
Dr. S. Roy
Peptide & Supramolecular Chemistry



Dr. K. Vankayala
Materials
Electrochemistry
Solar fuels



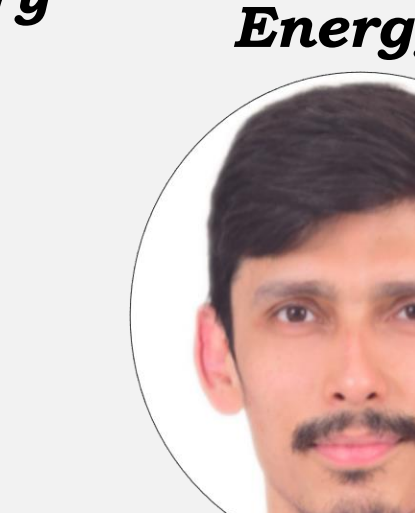
Dr. S. Chatterjee
Inorganic & Bio-inorganic Chemistry



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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