

# Department of CHEMISTRY

Established: 1944

UGC DRS-SAP & DST-FIST Sponsored

## An Overview



**BITS Pilani**  
Pilani Campus

### Contact us

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**BITS Pilani**  
Pilani Campus

**50** years  
of igniting  
young minds

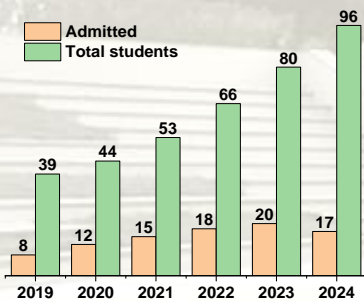


## About us

One of the oldest & ever-evolving department having a vision to excel in teaching & research. Active research in the frontier areas of both fundamental and applied chemistry has been appreciated nationally & globally over past decades. The department continues to grow and attain new paradigms in chemistry education in the country.

<b>Faculty Members</b>	<b>: 22</b>
<b>DST Women Scientist</b>	<b>: 01</b>
<b>Programs Offered</b>	<b>: M.Sc. (Integr.), Ph.D.</b>
<b>M.Sc. Students Intake</b>	<b>: ~ 80 per AY</b>
<b>Total Ph.D. Scholars</b>	<b>: 96</b>
<b>Senate-Approved courses</b>	<b>: 62</b>
<b>Non-teaching Staff (Office &amp; Lab)</b>	<b>: 07</b>

## Ph.D. Students Strength



## Research Publications



## Research Interests

- Organic Synthesis
- Medicinal Chemistry
- Drug Design
- Natural Products Chemistry
- Nanomaterials & Composites
- Supramolecular Chemistry
- Green Chemistry Applications
- Catalysis
- Bio-inorganic Chemistry
- Photophysical Chemistry
- Renewable Resources
- Opto-electronic Materials
- Soft Materials
- Porous Matrices & Hybrids
- Amorphous Materials & Solid State Chemistry
- Theoretical & Computational Chemistry

## Courses Offered

- General Chemistry
- Chemistry Laboratory
- Physical Chemistry I, II, III, IV
- Organic Chemistry I, II, III, IV
- Inorganic Chemistry I, II, III
- Colloid and Surface Chemistry
- Instrumental Methods of Analysis
- Chemical Experimentation I, II
- Biophysical Chemistry
- Numerical Methods in Chemistry
- Polymer Chemistry
- Electrochemistry
- Supramolecular Chemistry
- Magnetic Resonance
- Organic Chemistry & Drug Design
- Nanochemistry
- Green Chemistry and Catalysis
- Photochemistry and Laser Spectroscopy
- Electron Correlation in Atoms & Molecules
- Frontiers in Organic Chemistry
- Biochemical Sensors
- Statistical Thermodynamics
- Chemistry of Life Processes
- Heterocyclic Chemistry
- Bioinorganic Chemistry
- Solid State Chemistry
- Electronic Structure Theory
- Chemical Applications of Group Theory
- Laboratory Projects
- Study Projects

## Instrumentation Facilities

- FT-NMR (400 MHz)
- FT-IR
- Fluorimeter
- UV-Vis-NIR liquid/Solid state spectrophotometer
- TCSPC
- FESEM
- HPLC
- CHI Potentiostat
- XRD
- GC, GC-MS, LC-MS
- Polarimetry
- CHN analyzer
- MW Synthesizer
- Zeiss LSM 880 confocal fluorescence microscope
- DSC
- High Performance Computation

Library: Online access of ACS, RSC, Wiley-VCH, Elsevier, Taylor & Francis etc. journals.

