



Contact us

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BITS Pilani
Pilani Campus



Department of CHEMISTRY

Established: 1944

UGC DRS-SAP & DST-FIST Sponsored

An Overview



BITS Pilani
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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.

Faculty Members	21
Ramanujan Fellow	1
DST Women scientist	1
Ph.D. Scholars	65
M.Sc (Hons.) Students- per year (4 Yr. Integrated M. Sc Program)	72
Government Sponsored Projects (last 5 years)	29 (893.9 Lacs)
Industry Sponsored Projects	2 (54.8 Lacs)
Publications (last 5 years)	252
H index	54
Average Citations/year	2000
Average Impact Factor	3-53

MSc Chemistry program

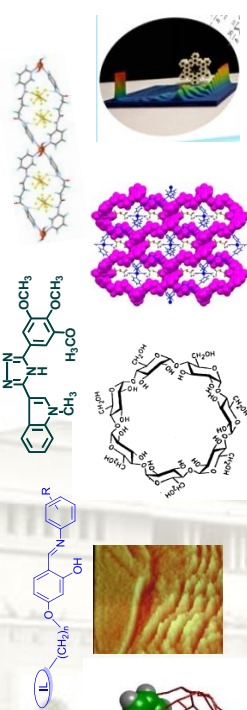
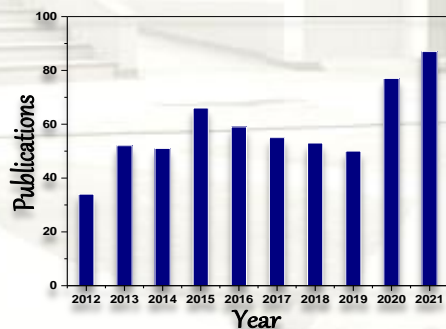
Student-Faculty Ratio ~ 17
Placement 97%

PhD Program:

Number of PhD Students registered: 65

Thrust areas of research

- Green Chemistry and Catalysis
- Organic and Medicinal Chemistry
- Synthetic Chemistry & Materials Science
- Theoretical and Computational Chemistry
- Photochemistry and Gas Phase Spectroscopy



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
- Atmospheric Chemistry
- Sustainable Chemistry using renewables
- Introduction to Computational Chemistry Lab

Instrumentation Facilities

- FT-NMR (400 MHz)
- FT-IR
- Fluorimeter
- HPLC
- UV-Vis
- CHI Potentiostat
- GC, GC-MS, LC-MS
- Polarimetry
- TR fluorescence
- Microwave CEM Discover
- DSC
- HRMS (DST FIST)
- TCSPC system (DST FIST)
- Ball Mill
- Belsorp Mini II
- High Performance Computation



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

