

Department of  
**APPLIED  
CHEMISTRY**  
M.Sc. Chemistry

Admissions  
2021



## ▼ About Us

Established in the year 2007, the Department has been actively engaged in imparting quality education in Chemical Sciences & Technology and Forensic Science. It has grown steadily in the past decade in faculty strength, infrastructure and research. The alumni of the Department are well placed in industries, academic institutions and R&D Centres thereby significantly impacting the society. With 15 competent faculty members committed to teaching and research, the growth of the Department has been phenomenal in terms of publications, projects, patents and consultancy.

The rich postdoctoral research experience of several faculty members has led to the recognition of the department for awards, fellowships and grants from the Departments of Science and Technology, Biotechnology, Government of India and the Board of Research in Nuclear Sciences and the Ministry of Power, Government of India.



## ▼ Program Offered

**M.Sc. Chemistry** (2 years / FT)

## ▼ Eligibility

50% of marks in the qualifying examination (B.Sc. Chemistry major / B.Sc. Applied Sciences / B.Sc. Applied Chemistry / B.Sc. Bio-chemistry / B.Sc. Textile Chemistry) or Equivalent.

## ▼ Research Areas

- Electrochemistry
- Solid State Electrochemistry
- Nanomaterials Chemistry
- Bio-organic Chemistry
- Fluorescent Chemosensors
- Electrocatalysis & Photocatalysis
- Medicinal Organic Chemistry
- Green Chemistry
- Catalysis
- Optoelectronic Materials
- Asymmetric Synthesis
- Supramolecular Chemistry
- Biofuels
- Main Group Organo-Metallic Chemistry
- Bio-organo Metallic Chemistry

## ▼ Alumni

Well placed in industries & research organizations, in CSIR Labs and in reputed Universities.

## ▼ Research Projects, Patents and Publications

- The commitment of the faculty towards research is reflected in the sponsored projects received to the tune of Rs. 7.1 Crores for the past decade.
- Faculty have filed 10 patents in diversified research areas relevant to Chemical Science and Technology. The patent entitled "A method for decolorization of dyeing waste water by electro-coagulation using titanium dioxide coated aluminium electrode" has been granted recently.
- Over 400 research publications feature in reputed Scopus indexed / Web of Science research journals with high impactor - Journal of the American Chemical Society, ACS Sustainable Chemistry and Engineering, ACS Omega, Chemical Communications, Chemistry - a European Journal, Crystal Engineering Communication, Catalysis science and Technology, RSC Advances, New Journal of Chemistry, Analytica Chimica Acta, Food Chemistry, Bioresources technology, Analytical Chemistry, Journal of Materials Chemistry A, Electrochimica Acta, Ceramics International, Tetrahedron Letters etc. with a h-index of 26.

## ▼ Research Facilities

- Shimadzu Gas Chromatography
- Shimadzu UV-Vis Spectrophotometer
- Jasco Spectrofluorometer
- Shimadzu IR Spectrometer
- CH 660 Electrochemical Workstation
- Grace Flash Chromatography System
- Shimadzu LC 20AD HPLC
- Agilent HPLC Mass Spectrophotometer
- Squidstat Plus Electrochemical Workstation
- Bruker NMR (300Mhz)

## ▼ Opportunities for Students

- Outcome Based Education
- Choice Based Credit System (CBCS)
- Experiential Learning
- Foreign internships through IAESTE
- Campus Placements
- CSIR (NET) & GATE Coaching
- Research Opportunities with Stipend

Contact:



**The Head of Department**  
Department of Applied Chemistry

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