Karunya
DEEMED UNIVERSITY
SOLVING HUMAN PROBLEMS

Admissions 2021

Department of APPLIED CHEMISTRY

B.Sc. (Hons.) Chemistry

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 14 competent faculty members committed to teaching and research, the growth of the Department has been phenomenal in terms of publications, projects and consultancy.

The rich postdoctoral research experience of several faculty members hasled 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 Highlights

- The three-year B.Sc. (Hons.) Chemistry Program provides a solid foundation in Chemical Sciences and Technology.
- Helps in building advanced professional (or) academic (or) research career.
- B.Sc (Hons.) Chemistry is an advanced undergraduate degree with specialized industry relevant Courses such as chemistry of materials, composites, polymers, batteries, sensors, analytical chemistry, spectroscopy, biochemistry, water chemistry, environmental chemistry and green chemistry.
- Taught by Faculty with rich research experience in Organic Chemistry, Medicinal Chemistry, Pharmaceutical Chemistry, Electrochemistry and Nanochemistry to name a few.
- Hands on training with various analytical instruments.
- Elective courses related to food, energy, healthcare and water are included in the curriculum.
- At the end of the Degree Program, the student will be able to identify and solve problems in chemistry and explore new areas of research.

Program offered

B.Sc. (Hons.) Chemistry (3 years / FT)

Eligibility

Pass in 10 + 2 or equivalent examination in Science stream with Chemistry, Physics and Mathematics / Biology / Computer Science or similar subjects from a recognized board with 50% of marks (overall percentage in HSc / +2).

Career Prospects

- Graduates can opt for careers in various fields of applied chemistry like pharmaceutical industries, chemical manufacturers, forensic science laboratories, plastic industries, agrochemical industries, paint manufacturing industries, electroplating industries, battery industries, etc.
- They can also pursue higher studies and research in India and abroad.

Research Areas

- Electrochemistry • Solid State Electrochemistry
- Nanomaterials Chemistry • Bio-organic Chemistry
- Flourescent 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

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)

Contact:

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APPLY NOW
Scan QR Code to Start the Admission Process

The Head of Department
Department of Applied Chemistry

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