

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

About the Department

The Department of Pharmaceutical Chemistry is dedicated to the study, design, synthesis, and analysis of bioactive compounds that support the discovery and development of safe, effective medicines.

It provides students with a strong foundation in medicinal chemistry, analytical techniques, drug design, and quality control, while fostering innovation, scientific integrity, and problem-solving skills for the pharmaceutical industry and academia.

Vision

To be a leading center of excellence in pharmaceutical chemistry education, research, and innovation, contributing to the discovery of high-quality medicines and the advancement of healthcare.

Mission

- To provide comprehensive education in pharmaceutical chemistry with a strong scientific and professional foundation.
- To develop analytical and research skills for solving challenges in drug discovery, development, and quality assurance.

- To promote innovation in the synthesis, characterization, and evaluation of therapeutic agents.
 - To encourage ethical practice, critical thinking, and a commitment to lifelong learning.
 - To prepare graduates for meaningful careers in industry, research, regulation, and higher education.
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Areas of Expertise

Medicinal Chemistry	Organic Synthesis
Analytical Chemistry	Drug Design
Pharmaceutical Analysis	Spectroscopic Methods
Chromatographic Techniques	Structure Elucidation
Quality Control	Computational Chemistry

Laboratories

- Medicinal Chemistry Laboratory
 - Analytical Chemistry Laboratory
 - Instrumental Analysis Laboratory
 - Research and Synthesis Laboratory
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Research Focus

Drug Discovery

Lead Optimization

Natural Product Chemistry

Analytical Method Development

Phytochemical Studies

Bioactive Compound Isolation

Quality Assessment of Medicines

Molecular Modeling

Student Learning Opportunities

- Hands-on laboratory training in synthesis and analysis
- Exposure to modern instrumentation and techniques
- Research participation with faculty mentors
- Project-based learning and scientific writing practice
- Industry-relevant problem-solving and case studies
- Seminars, workshops, and professional development activities
- Internship and collaborative research opportunities

Career Opportunities

Graduates can pursue careers as pharmaceutical chemists, medicinal chemists, analytical chemists, quality control analysts, research scientists, formulation support specialists, regulatory affairs professionals, and academic instructors in pharmaceutical and healthcare-related sectors.