

JNTUA OIL TECHNOLOGICAL PHARMACEUTICAL AND RESEARCH INSTITUTE , ANANTAPUR

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

About Pharmaceutical Chemistry:

The Department of Pharmaceutical Chemistry of JNTUA Oil Technological Pharmaceutical and Research institute was established in the year 2009 and committed for training and educating the students in the field of pharmaceutical chemistry. Pharmaceutical Chemistry emphasizes on the chemistry of drug design and development, drug action, drug transport, drug delivery and targeting. The discipline Medicinal Chemistry plays a vital role in design and synthesis of new molecules using synthetic organic chemistry, the creation of biological knowledge and medicinal applications makes a major contribution to the identification and development of small drug-like molecules in the discovery process.

Pharmaceutical Chemistry is the heart of pharmacy course which aims to provide the necessary theoretical concepts and practical exposure in design, synthesis and characterization of novel chemical entities (NCE's). A major in pharmaceutical chemistry will give hands on experience in synthetic route design and its implementation.

Progress in the field depends on the design and synthesis of new molecules using tools such as structure activity relationships, combinatorial chemistry, and computer-aided drug design. The course content is methodically structured and designed to prepare the students for a career in academia as well as the pharmaceutical industry.

The course work of the department covers the core areas of pharmacy like synthesis of new chemical entities, their analysis, and development of new analytical techniques for validation of organic compounds of natural and synthetic origin. The department provides computer aided drug design software facility for the identification of lead molecules.

Faculty:

Assistant Professor – 2

Job Prospects in Pharmaceutical Chemistry

Drug Discovery & Development (CADD)

Organic & Medicinal Chemistry Division

Pharmaceutical Manufacturing Division

Pharmaceutical Bulk Drug Division

Pharmaceutical Analytical R&D

Career Opportunities

Doctoral programmes

Synthetic chemists in basic and applied research in both research and contract research organizations

Medicinal chemists in drug design and discovery labs

Natural Product Chemist

Process Chemist

Associates in regulatory affairs

Medical Writers

Academics

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CLASSROOM

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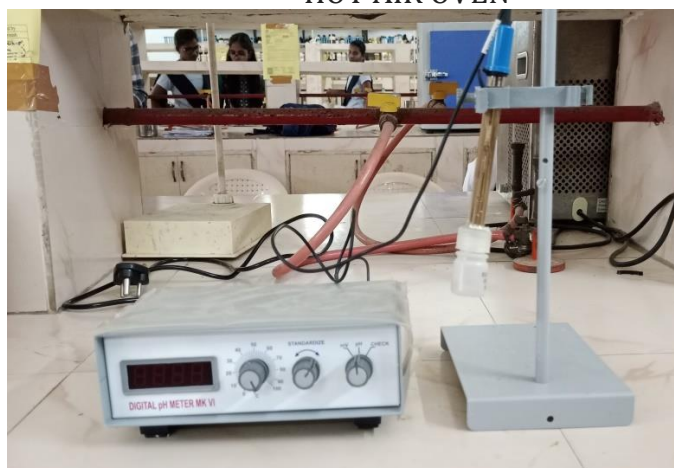
DEPARTMENT LABORATORY



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HOT AIR OVEN



DIGITAL PH METER APPARATUS



MELTING POINT APPARATUS



DESICATOR