

## B. Pharma in School of Pharmacy

### Program Educational Objectives (PEO)

#### PEO 1: Core Pharmaceutical Knowledge

Graduates will have a strong foundation in pharmaceutical sciences, including drug formulation, pharmacology, medicinal chemistry, and clinical pharmacy.

#### PEO 2: Professional Competency & Ethics

Graduates will apply ethical principles and regulatory guidelines in pharmaceutical practice, ensuring patient safety and compliance with industry standards.

#### PEO 3: Research & Innovation

Graduates will engage in research, innovation, and lifelong learning to contribute to advancements in pharmaceuticals and healthcare.

#### PEO 4: Patient-Centric Approach

Graduates will contribute to patient care through evidence-based pharmaceutical practice, ensuring safe and effective medication use.

#### PEO 5: Leadership & Entrepreneurship

Graduates will develop leadership skills and entrepreneurial capabilities to excel in various pharmaceutical sectors, including industry, academia, and healthcare.

### Program Outcomes (PO)

#### PO 1: Pharmacy Knowledge:

Possess knowledge of the core pharmacy subjects such as pharmaceuticals, pharmacology, pharmacognosy, pharmaceutical chemistry, and other allied subjects like pharmacy administration, cosmetics, marketing, etc.

#### PO 2: Planning Abilities:

Showcase effective planning abilities including time management, resource management, delegation skills, and organizational skills. Develop and implement plans and organize work to meet deadlines.

#### PO 3: Problem analysis:

Apply the scientific principles, analytical and critical thinking, while solving problems and making decisions during daily practice.

**PO 4: Modern tool usage:**

Select, and apply appropriate procedures, resources, and modern pharmacy-related computing and analytical tools with an understanding of their working principles.

**PO 5: Leadership skills:**

Inculcate leadership and team-building skills required for the fulfilment of professional and societal responsibilities. Undertake participatory roles as responsible citizens or leadership roles to facilitate improvement in health and wellbeing.

**PO 6: Professional Identity:**

Comprehend, evaluate, and communicate their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).

**PO 7: Pharmaceutical Ethics:**

Respect personal values and ethical principles in professional and social contexts. Apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.

**PO 8: Communication:**

Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.

**PO 9: The Pharmacist and society:**

Apply reasoning informed by the appropriate knowledge to assess health, safety and legal issues and following the responsibilities relevant to the professional pharmacy practice.

**PO 10: Environment and sustainability:**

Understand the impact of professional pharmacy practices in environmental contexts, and showcase the knowledge of, and need for sustainable development.

**PO 11: Life-long learning:**

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self- assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

## Program Specific Outcomes (PSO)

**PSO 1:** Understand the pharmacological and toxicological actions of synthetic and Phyto molecules in the diagnosis, prevention, and treatment of various diseases.

**PSO 2:** To emphasize the significance of quality control and assurance in drug design and formulation development.

**PSO 3:** Implementing expertise in medicinal chemistry, preparative pharmacy, analytical skills, and pharmaceutical engineering in coming up with novel dosage forms as well as drug delivery skills to cater to the needs of the industry.

**PSO 4:** Utilize the knowledge of drug laws for entrepreneurship development and marketing of drug distribution of all scheduled drugs and cosmetics.