



PEO's for M. Pharmacy (Pharmacology) Program

PROGRAM EDUCATIONAL OBJECTIVES

Commitment

Learning

Leadership

Expertise

Teamwork



Program Outcomes for M. Pharmacy (Pharmacology) Program

- PO.2.1** Postgraduates will acquire adequate scientific information regarding basic principles of Pharmaceutical and Medicinal chemistry, Pharmaceutics including Cosmetology, Pharmacology and Pharmacognosy. They will also have hands on training of practical aspects of Synthesis of APIs and its intermediates along with Formulation and Development, Analysis and Quality assurance of various pharmaceutical dosage forms including those of herbal origin as per standards of official books, WHO, and other regulatory agencies.
- PO.2.2** Postgraduates will develop an ability to plan, visualize and work on multidisciplinary tasks. They will be able to demonstrate necessary skills (eg. working independently, time management and organizational skills). They will demonstrate an adaptable, flexible and effective approach towards organizational development.
- PO.2.3** Postgraduates will be able to think logically and solve the problems, will develop an ability to conduct, analyze and interpret data of pharmaceutical experiments in various departments (Eg: Drug discovery, Formulation & Development, Production, Quality control & Quality assurance etc) as per the needs of pharmaceutical industries.
- PO.2.4** Postgraduates will master the key concepts in the discipline of their interest in pharmaceutical sciences. They will demonstrate these skills to use modern pharmaceutical tools, software, and equipments to analyze & solve problems.
- PO.2.5** Postgraduates will develop leadership and interpersonal skills such as influencing others, negotiating and working with others, conflict management and leading others through the problem-solving process. They will be able to lead and function both individually and as a member of a team.
- PO.2.6** Postgraduates will apply theoretical and practical skills developed through classroom, laboratories and team project experiences and thus will develop confidence and will be able to i) do specialized research in the core and applied areas of pharmaceutical sciences. ii) manufacture, analyse and assure the drug based formulations. iii) promote and market the pharmaceuticals and iv) train the budding pharmacist to become self-reliant pharmacist and a health care professional.



- PO.2.7** Postgraduates will demonstrate knowledge of professional and ethical responsibilities as per pharmaceutical jurisprudence. The graduates will swear by a code of ethics of Pharmacy Council of India in relation to community and shall act as integral part of a health care system. They will demonstrate honesty, integrity, ethical understanding, and respect for others and will carry out their professional responsibilities by adhering to high ethical standards.
- PO.2.8** Postgraduates will acquire excellent interpersonal oral communication and writing skills. They will be able to demonstrate knowledge and proficiency with current audio-visual presentation technologies and develop an ability to communicate scientific knowledge in non-expert/lay term by adopting various modes of scientific communications (e.g., abstract, manuscripts, project reports, oral and poster presentations etc). This will allow effective exchange of professional information.
- PO.2.9** Postgraduates will demonstrate the impact of pharmacy knowledge on the society and also will be aware of modern issues. They will create awareness of healthcare issues through interactions with others and will gain a sense of self-respect towards community and citizenship.
- PO.2.10** Postgraduates will be able to demonstrate a high-level of understanding of the key stages in drug discovery, development, and commercialization. This will lead to the manufacturing of drugs and pharmaceuticals considering its impact on the environment and surrounding.
- PO.2.11** Postgraduates will be able to demonstrate knowledge and skills in all disciplines of Pharmaceutical sciences and develop a sound pharmaceutical care plan to manage medication-related problems. They will retrieve, evaluate, and apply current drug information in the delivery of pharmaceutical care and assure safe and accurate preparation and dispensing of medications.



Program Specific Outcomes for M. Pharmacy (Pharmacology) Program

- PSO.2.1** Deal with various advanced instrumental techniques for identification, characterization and quantification of drugs.
- PSO.2.2** Demonstrate basic knowledge in the field of pharmacology and to impart recent advances in the drugs used for the treatment of various diseases. In addition, pharmacologist will understand the concepts of drug action and mechanisms involved.
- PSO.2.3** Knowledge on preclinical evaluation of drugs and recent experimental techniques in the drug discovery and development.
- PSO.2.4** Pharmacologist will appraise the regulations and ethical requirement for the usage of experimental animals.
- PSO.2.5** Pharmacologist will have fundamental knowledge on the structure and functions of cellular components and interaction of these components with drugs. This information will further help the student to apply the knowledge in drug discovery process.
- PSO.2.6** Pharmacologist will easily demonstrate the adverse effects, contraindications and clinical uses of drugs used in treatment of diseases to the society.
- PSO.2.7** Impart knowledge on the preclinical safety and toxicological evaluation of drug & new chemical entity.
- PSO.2.8** Pharmacologist will make the student competent in drug discovery process.
- PSO.2.9** A talent pool would be created by involving students in research projects and to make students undertake research projects under faculty guidance for publication.
- PSO.2.10** Promote ambitious desire to undertake higher studies and career growth