



PEO's for M. Pharmacy (Pharm. Chemistry) Program

PROGRAM EDUCATIONAL OBJECTIVES

Commitment

Learning

Leadership

Expertise

Teamwork



Program Outcomes for M. Pharmacy (Pharm. Chemistry) Program

- PO.3.1** 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.3.2** 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.3.3** 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.3.4** 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.3.5** 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.3.6** 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.3.7** 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.3.8** 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.3.9** 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.3.10** 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.3.11** 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 (Pharm. Chemistry) Program

- PSO.3.1** Deals with various advanced analytical instrumental techniques for identification, characterization and quantification of drugs.
- PSO.3.2** In-depth knowledge about advances in organic chemistry, different techniques of organic synthesis and their applications to process chemistry as well as drug discovery.
- PSO.3.3** Knowledge about recent advances in the field of medicinal chemistry at the molecular level including different techniques for the rational drug design.
- PSO.3.4** Detail knowledge about chemistry of medicinal compounds from natural origin and general methods of structural elucidation of such compounds.
- PSO.3.5** Ability of isolation, purification and characterization of medicinal compounds from natural origin.
- PSO.3.6** Knowledge on the current state of the art techniques involved in computer assisted drug design.
- PSO.3.7** Develop synthetic routes that are safe, cost-effective, environmentally friendly, and efficient.
- PSO.3.8** Knowledge with various hyphenated analytical instrumental techniques for identification, characterization, and quantification of drugs.
- PSO.3.9** 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.3.10** Promote ambitious desire to undertake higher studies and career growth.