M. PHARM - PHARMACEUTICS

Program Outcomes (POs)

Upon the completion of the program, the graduate is able to

PO 1	**In-Depth Knowledge: Acquire a deep understanding of the processes involved in pharmaceutical drug manufacturing and how to analyze their chemical composition**
PO 2	**Laboratory Expertise:** Ability to perform experiments and operate instruments in the laboratory, which is crucial for creating and testing pharmaceuticals in a safe and efficient manner.
PO 3	**Research and Innovation:** Develop Skill in conducting research in pharmaceutical sector and generating novel and improved methods for the development and evaluation of medicines.
PO 4	**Effective Problem-Solving:** Ability to solve difficult problems that arise during the manufacturing and testing of drugs and integrate the same for enhancing the quality applying statistics and computer software tools.
PO 5	**Collaborative Skills:** Collaborate effectively with other healthcare professionals and researchers to enhance both pharmaceutical products and research initiatives.
PO 6	**Clear Communication:** Effective in communicating research findings and testing results using precise scientific language that the peers in the field can understand.
PO 7	**Ethical Conduct:** Adhere to ethical standards in the work, taking responsibility for ensuring the safety of pharmaceutical products for patients.
PO 8	**Patient-Centered Approach:** Prioritize the safety, effectiveness, and well-being of patients, makes utmost concern in pharmaceutical practices.
PO 9	**Knowledge Sharing:** Disseminate their discoveries by publishing articles in respected scientific journals and presenting the research work at academic and professional gatherings to improve methodologies within the field.
PO 10	**Regulatory Adherence:** Understanding and compliance with the established rules and regulations and quality standards in the pharmaceutical and healthcare sectors, ensuring the safety and quality of medications.
PO 11	**Lifelong Learning:** Ongoing learning and self-improvement even after completing studies, staying updated with the latest scientific knowledge and industry practices.

Program Specific Outcomes (PSO)

PSO 1	**Advanced Formulation Expertise: Acquire an in-depth understanding of pharmaceutical drug manufacturing processes and formulation techniques, enable to design and create innovative drug delivery systems and dosage forms.**
PSO 2	**Research Pioneers:** Excel in research and innovation within the field, demonstrating the ability to develop novel and improved methodologies for drug development and evaluation, contributing to advancements in pharmaceutical science.
PSO 3	**Laboratory Proficiency:** Demonstrate exceptional skills in laboratory techniques, particularly in the context of pharmaceutical formulation and drug analysis, ensuring the safe and efficient production and testing of medications.
PSO 4	**Innovative Problem Solvers:** Competent at solving complex challenges that may arise during drug manufacturing and testing, utilizing knowledge and laboratory expertise to find practical solutions and optimize pharmaceutical processes.

Program Educational Objectives (PEOs)

PEO 1	**Comprehensive Expertise: Deep and comprehensive understanding of pharmaceutical drug manufacturing, chemical analysis, and formulation, equipping with the knowledge to excel in pharmaceutical research, production, and development.**
PEO 2	**Research and Innovation Leaders:** Emerge as leaders in pharmaceutical research and innovation, consistently generating novel and improved methods for drug development and evaluation. Able to contribute significantly to the advancement of pharmaceutical science and the development of safer and more effective medicines.
PEO 3	**Advanced Laboratory Proficiency:** Proficient in utilizing advanced laboratory techniques and instrumentation, particularly in the realm of pharmaceutical formulation and drug analysis. This expertise enables to contribute safe and efficient pharmaceutical production, ensuring the highest quality medications.
PEO 4	**Solutions-Oriented Problem Solvers:** Develops exceptional problem-solving skills, particularly in addressing complex challenges during drug manufacturing and testing. And leverages the knowledge and laboratory expertise to find practical and innovative solutions that optimize pharmaceutical processes and ensure product quality and safety.
PEO 5	**Effective Communicators and Collaborators:** Effective communicators who conveys their research findings and testing results clearly to their peers and the broader scientific community. Also excel in collaborating with healthcare professionals and researchers to enhance pharmaceutical products and research initiatives, fostering teamwork and interdisciplinary approaches in the field.