

M. PHARM - PHARMACEUTICAL ANALYSIS

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 Analytical Proficiency: Attains an in-depth understanding of sophisticated analytical instrumentation and techniques used in pharmaceutical analysis, allowing students to precisely determine the chemical composition of pharmaceutical products.
PSO 2	Innovative Research in Analytical Science: Excel in conducting research and innovation in the field of pharmaceutical analysis with a focus on advanced instrumentation. Develops novel and improved methods for the precise evaluation of medicines, contributing to the advancement of analytical sciences in pharmaceuticals.
PSO 3	Mastery of Advanced Laboratory Instruments: Demonstrates exceptional expertise in operating and leveraging advanced laboratory instruments and equipment, essential for conducting high-precision pharmaceutical analysis safely and efficiently.
PSO 4	Strategic Problem Solvers in Analytical Challenges: Skilled at addressing complex issues that may arise during pharmaceutical analysis, utilizing their knowledge of advanced instrumentation to identify solutions and optimize analytical processes.

Program Educational Objectives (PEOs)

PEO 1	Advanced Analytical Proficiency: Achieve a deep and advanced understanding of analytical instrumentation and techniques in pharmaceutical analysis, enabling them to conduct precise chemical analyses of pharmaceutical products and contribute to the advancement of analytical sciences.
PEO 2	Innovative Research Leaders in Analytical Science: Emerge as leaders in pharmaceutical analysis research, consistently developing novel and improved methodologies for evaluating medicines. Their work will significantly advance the field of analytical sciences in pharmaceuticals.
PEO 3	Expert Users of Advanced Laboratory Instruments: Demonstrates exceptional expertise in operating and leveraging advanced laboratory instruments and equipment. The mastery of instruments is crucial for conducting high-precision pharmaceutical analysis safely and efficiently.
PEO 4	Strategic Problem Solvers in Analytical Challenges: Proficient in addressing complex issues that may arise during pharmaceutical analysis. Also employs knowledge of advanced instrumentation to identify solutions and optimize analytical processes to ensure the quality and safety of pharmaceutical products.
PEO 5	Effective Communicators and Collaborators in Analytical Research: Graduates will excel in communication, conveying their research findings and analytical results effectively to their peers and the broader scientific community. They will also demonstrate strong collaborative skills, working effectively with healthcare professionals and researchers to enhance pharmaceutical analysis and research initiatives, fostering interdisciplinary teamwork