

PROGRAM SPECIFIC OUTCOMES

M. PHARM (PHARMACEUTICS)

After successful completion of the program the graduate will be able to

PSO1: Apply the principles of drug delivery system in the development of eco-friendly, efficacious dosage forms.

PSO2: Develop an ability to undertake multidisciplinary tasks in the pharmaceutical quality system.

PSO3: Analyze, criticize, organize, improvise and manage documents, data and information related to pharmaceutical production process.

PSO4: Imbibe ethical practices and moral values in personal and professional endeavours.

PSO5: Execute team based research to implement innovative solutions in the area of formulation, quality assurance and technology transfer.

PSO6: Apply problem-based learning approach and analytical thinking in academic and professional life.

PSO7: Validate the knowledge and skills gained through education to gain recognition in Pharmaceutical society and related field.

PSO8: Set-up pharmaceutical production unit to design and formulate pharmaceutical dosage forms.

M.PHARM (PHARMACEUTICAL CHEMISTRY)

After successful completion of the program the graduate will be able to:

PSO 01: Independently carry out research/ investigation and development work related to new chemical entities and develop the synthetic strategies and drug design proposals.

PSO 02: Write and present a substantial technical report/ documents and demonstrate a degree of mastery over the specialization of the program.

PSO03: Use software and technology in research analysis and product/ process design.

PSO04: Understand various named reactions, mechanisms and properties of various groups of chemicals and optimization of drug synthesis.

PSO05: Maintain the economic and eco-friendly mechanism, reducing number of steps, minimizing wastage and avoiding pollution of surroundings by obeying green chemistry principles.

PSO06: Gain knowledge of practical techniques and advanced techniques to solve the problems in isolation, separation, purification and confirmation of chemical entities.

M.PHARM (PHARMACEUTICAL ANALYSIS)

The following program specific outcomes for Master of Pharmacy Program at various specializations have been structured based on outputs and opinion from various stakeholders who are relevant to this program.

PSO1: To deal with various advanced instrumental techniques for identification, characterization, and quantification of drugs

PSO2: To know the science of detection of impurities, impurities in pharmaceutical formulations, impurity profiling, stability testing of phytopharmaceuticals, and their protocol development

PSO3: To understand validation and its application in industry, their methodologies and application in manufacturing processes

PSO4: To impart knowledge on analysis of food constituents and finished food products, food additives, the pesticides and the regulations of food and legislations of food products

PSO5: To know the Pharmacopieal assays by spectroscopical methods, calibration techniques, determination of preservatives, vitamin contents in drugs and foods

PSO6: To create a knowledge with various hyphenated analytical instrumental techniques for identification, characterization, and quantification of drugs

PSO7: To impart knowledge about extraction, separation of drugs from biological samples using different techniques and guidelines for analytical methods

PSO8: To know about quality assurance aspects of pharmaceutical industries such as CGMP, Documentations, certifications, GLP, and other regulatory affairs

PSO9: To create a talent pool by involving students in research projects and to make students undertake research projects under faculty guidance for publication

PSO10: To foster ambitious desire among students to undertake higher studies and career growth.

M.PHARM (PHARMACOLOGY)

After successful completion of the program the graduate will be able to :

PSO1: Relate the acquired scientific informations and principles of pharmacokinetics and pharmacodynamics in drug discovery process.

PSO2: Interpret data of pharmaceutical experiments in drug discovery as per the needs of pharmaceutical industries.

PSO3: Translate the high-level of understanding of drug action into key stages in preclinical and clinical research studies.

PSO4: Apply skills to do specialized research in the core and applied areas of pharmaceutical sciences.

PSO5: Evaluate current drug information in the delivery of pharmaceutical care and assure in regard to drug usage and their adverse effects

PSO6: Demonstrate knowledge of professional and ethical responsibilities in clinical and non-clinical laboratory as required by regulatory bodies.

PSO7: Develop an ability to visualize and work on multidisciplinary tasks in the area pharmaceutical and its allied field.

PSO8: Appraise pharmacological model for investigation through logics and problem to solving ability.

M.PHARM (PHARMA REGULATORY AFFAIRS)

After successful completion of the program the graduate will be able to:

PSO1: Assess current regulations that focus on drugs and medical devices and their impact on regulatory submissions such as New Drug Applications (NDA), Abbreviated NDAs, Investigational New Drug (IND) Applications, 510k, and Pre-Market Authorizations PMAs.

PSO2: Identify the differences between patents, trademarks, and trade secrets as they relate to regulatory and marketing strategy.

PSO3: Identify and utilize the laws and regulations that apply to the development, testing, and production of new medical products, including medical devices, In-Vitro Diagnostics (IVDs, pharmaceuticals, biotechnology-derived therapeutics, and biologics.

PSO4: Evaluate real and/or simulated regulatory submissions for appropriateness of the submission to the regulatory requirements of product design, manufacturing, testing, and post-market surveillance strategies.

PSO5: Strategically build sections for regulatory submission for various classes of medical devices.

PSO6: Identify a specific regulatory issue for either a drug or device and be able to justify an appropriate position or strategy through presentation and written skills.

PSO7: Demonstrate the ability to develop personal and professional skills in the field of regulatory affairs.

PSO8: Demonstrate the ability to investigate case studies related to various regulatory topics (e.g. regulatory submissions, product defect, clinical trials and quality assurance strategies etc.,).

PHARM.D

After successful completion of the program the graduate will be able to:

PSO1 : Provide pharmaceutical care including, but not limited to, Medication Therapy Management (MTM), vaccinations and drug therapy monitoring in all practice areas (e.g., inpatient, ambulatory and community practice).

PSO2 : Provide high quality, evidence-based, patient-centered care in cooperation with patients, prescribers and members of the inter-professional health care team.

PSO3 : Demonstrate mastery and application of core knowledge and skills in relation to the evolving biomedical, clinical, epidemiological and social-behavioral sciences. This includes competency in areas supporting high quality pharmacy practice (e.g., pharmaceuticals, medicinal chemistry, pharmacokinetics, pharmacodynamics, pharmacology, pathophysiology, pharmacotherapeutics, and pharmaceutical care)

PSO4 : Demonstrate the ability to use critical analysis and problem solving skills for the provision of high quality, evidence-based pharmacy services and patient care.

PSO5 : Locate, appraise and assimilate evidence from scientific studies to enhance the quality of care and services. Effectively utilize information, informatics and technology to optimize learning and patient care

PSO6: Effectively educate families, patients, caregivers and other HCPs

PSO7: Demonstrate exemplary professional, ethical and legal behaviors, complying with all state and local laws and regulations related to pharmacy practice. Contribute to the training of pharmacy students, future colleagues, and the growth and success of the profession

PSO8 : Demonstrate the respect for patient privacy and autonomy, as well as sensitivity and responsiveness to diverse patient populations and Demonstrate a high degree of integrity, truthfulness and fairness

PSO9 : Effectively manage medication use systems, Prioritize patient safety and public health, Participate in identifying system errors.