

Programme Outcomes of B. Pharmacy

POs describe what students are expected to know or able to do by the time of graduation from the programme. The aims and objectives of the B. Pharmacy course are “The Pharmacy graduates are required to learn and acquire adequate knowledge and necessary skills to practice the profession of pharmacy. They are required to acquire in-depth knowledge of synthesis, analysis, formulation, quality assurance and storage of various pharmaceutical dosage forms including herbal medicines. The graduates should understand the concept of community pharmacy, be able to participate in health care programmes and should also act as a bridge between the Physician and Patients for achieving better health of community”

The Programme Outcomes are established as per the process described in NAAC accreditation manual. The Program Outcomes of UG in Pharmacy are:

- Graduates 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.
- Graduate 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
- Graduates will develop an ability to 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.
- Graduates will develop 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.

- Graduates will demonstrate knowledge of professional and ethical responsibilities as per pharmaceutical jurisprudence. They 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.
- Graduates 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.
- Graduates 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.
- 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.
- The graduates 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
- Graduates 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.
- Graduates 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.

Program Outcomes of Pharm D

To achieve the mission of our Pharm D program, students must develop the knowledge, skills, and attitudes that enable them to competently perform these functions. The following outcomes reflect the terminal skills that all PharmD graduates should be able to demonstrate upon program completion.

Patient/Pharmaceutical Care

- Provide high quality, evidence-based, patient-centered care in cooperation with patients, prescribers and members of the interprofessional health care team
- Promote health and wellness and disease prevention
- 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)
- Provide culturally competent pharmaceutical care and demonstrate cultural competence in all interactions
- Appropriately address patient-specific and population-specific needs

Medical and Science Foundations

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

Practice Based Learning and Improvement

- Evaluate practice and care, and promote continuous improvement in one's own patient care and pharmacy services
- Demonstrate self-calibration skills and a commitment to the lifelong learning needed to provide high quality care
- 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

Interpersonal and Communication Skills

- Demonstrate effective interpersonal written and verbal skills, adapt to socioeconomic and cultural factors as well as situational applications
- Effectively educate families, patients, caregivers
- Function effectively in a team
- Act in a consultative position for other members of the health care team, regulatory agencies and policy makers

Professionalism

- Demonstrate exemplary professional, ethical and legal behaviors, complying with all federal, 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
- Demonstrate the respect for patient privacy and autonomy, as well as sensitivity and responsiveness to diverse patient populations
- Demonstrate a high degree of integrity, truthfulness and fairness
- Demonstrate initiative, reliability and follow-through in fulfilling commitments

Systems Based Practice and Management

- Demonstrate awareness and responsiveness to the system of health care, effectively utilizing systems of care to provide cost-effective, optimal care
- Incorporate cost awareness and risk-benefit analysis in patient and/or population-based care; this includes applying pharmacoeconomic principles to health outcomes and patient care
- Effectively manage medication use systems
- Prioritize patient safety and public health
- Advocate for quality patient care and optimal health care
- Work on interprofessional teams to enhance quality and safety
- Participate in identifying system errors