

B. Pharm Program Learning Outcomes

Knowledge and Understanding	
K1	Demonstrate knowledge and understanding of the theories, principles and concepts in biomedical, pharmaceutical, social, behavioral, administrative and clinical sciences associated with the development and use of pharmaceuticals for prevention and treatment of diseases.
K2	Demonstrate knowledge and in-depth understanding of different classes of drugs, their sources, isolation, purification, physicochemical properties, synthesis, structure activity relationship, pharmacokinetics, mechanisms of action, adverse effects, formulation, manufacturing, analysis and use.
K3	Demonstrate awareness of the pathophysiology and diagnosis of diseases, pharmacotherapy approaches as well as pharmacoeconomics, pharmaceutical marketing and management, biostatistics, pharmaceutical care and drug regulatory affairs required to practice the pharmacy profession in health care setups.
K4	Demonstrate knowledge of the methods, strategies and techniques required to independently conduct research in the fields of drug discovery, drug development, drug delivery and patient care.
Skills	
S1	Apply the concepts, principles and theories of biomedical, pharmaceutical, behavioral, administrative, clinical sciences, and pathophysiology to identify the causes of diseases, diagnose the diseases, identify sources of drugs, synthesize drugs, prepare pharmaceutical dosage forms, explain drug action & interactions, solve therapeutic problems, and advance patient-centered care.
S2	Investigate scientific literature to critically analyze and solve complex unpredictable problems in pharmaceutical and clinical sciences.
S3	Perform tasks related to selection of the appropriate biomedical, clinical, and pharmaceutical procedures, materials, equipment, and lab safety protocols.
S4	Perform tasks related to interpretation of clinical laboratory tests, patient care, and patient counseling along with training on self-care devices in various pharmacy practice settings.
S5	Communicate effectively verbally and nonverbally with colleagues, patients, health care professionals and supportive staff.
S6	Apply the principles of mathematics and statistics to perform pharmaceutical calculations, analyses relevant to pharmacokinetics, pharmaceutical analysis, dispensing, and pharmacy practice.
S7	Use state-of-the art information technology in academic, pharmaceutical research and patient care setups.



Values, Autonomy, and Responsibility

V1	Exhibit professional ethics, integrity, attitudes and behavior by respecting others, avoiding malpractices, and cooperating with his fellows to achieve the professional goals.
V2	Demonstrate abilities to work as a member or leader of a team through effective collaboration with patients or colleagues or other professionals.
V3	Engage in self-learning practices and inter-professional healthcare education activities.