

**PHARMACOLOGY PROGRAM SPECIFIC OUTCOMES**

Upon completion of the course the student will be able to:

1. Understand the basic concepts of Anatomy, Physiology, Pathophysiology and Clinical Biochemistry and Pharmacology including pharmacokinetics; pharmacodynamics; drug metabolism; and drug-drug interactions; and the interrelation of these pharmacological properties and pharmacological profile of a drug.
2. Understand the application of basic knowledge of Anatomy, Physiology and Pathophysiology in understanding the basic principles of Pharmacology
3. Understand the application of basic knowledge of Pharmacology in pharmacotherapeutics, Clinical Pharmacology and Toxicology.
4. Understand the approaches for drug discovery and development and the regulatory procedures.
5. Knowledge of Current clinical judgement and Pharmacological details of major drugs in clinical practice.
6. Knowledge of etiological factors; pathogenesis, pathophysiological changes that occur in the most common disease states, their clinical presentations and strategy of the therapy along with the choice of drug(s) can act to effectively treat, cure, or mitigate the underlying disease causes and/or symptoms along with the non-pharmacological approaches.
7. Understand the physiological, pharmacological, and psychological effects of acute and chronic exposure of individuals to drugs of abuse, and describe the consequences of sudden withdrawal of such a drug from a drug dependent individual.
8. Knowledge of the basic principles of toxicology