

B. Pharm. Semester-VI

COs	Statement
Medicinal Chemistry III (BP601TP)	
601.1	To acquire knowledge about classification, mechanism of action, degradation pathway, SAR, synthetic scheme and therapeutic use of chemotherapeutic agents like β lactam antibiotics, aminoglycoside and tetracyclines.
601.2	To understand classification, mechanism of action, SAR, synthetic scheme and therapeutic use of Macrolide, antimalarials and basic concept about prodrug.
601.3	To learn chemistry and therapeutic uses of different class like antifungal agents, antiprotozoal agents.
601.4	To learn chemistry and therapeutic uses of various class of medicinal drugs like Sulphonamide and Anthelmintics
601.5	To know mechanism of action, Synthesis, therapeutic importance from various class of drugs like anti tubercular agents, Anti-infective agents and antiviral agents,
601.6	To apply and demonstrate QSAR, De novo drug design and combinatorial chemistry technique for designing of new drug molecule
Pharmacology III (BP602TP)	
602.1	Gain the knowledge of pharmacology of drugs acting on respiratory system and gastrointestinal tract.
602.2	Know the basics and current updates of Antibiotics.
602.3	Understand drug classes and their pharmacological role in tuberculosis, leprosy, fungal, viral, protozoal and parasitic infections.
602.4	Acquire the knowledge of chemotherapy for urinary tract infections, sexually transmitted diseases and cancer.
602.5	Learn about theoretical aspects of immunopharmacology and chronopharmacology.
602.6	Comprehend the principles of toxicology and various poisonings.
Herbal Drug Technology (BP603TP)	
603.1	Able to perform Selection, identification and authentication of herbal raw material; Know about Good agricultural practices in cultivation of medicinal plants
603.2	Basic principles involved in different medicinal systems and Processing of Ayurvedic formulations
603.3	Able to understand Nutraceuticals and Pharmacovigilance of herbal drugs
603.4	Knowledge of Herbal cosmetics, Herbal excipients and Herbal formulations
603.5	Understand guidelines for the assessment of herbal drugs; Knowledge for Patenting and Regulatory requirements, Regulatory issues related to Herbals
603.6	Introduction of Herbal industry and Good Manufacturing Practice in Herbal Industry
Biopharmaceutics and Pharmacokinetics (BP604TT)	
604.1	Understand various Mechanisms, factors influencing, Non per oral extra-vascular routes of drug absorption and the concepts of drug distribution.
604.2	To understand the concepts of elimination of drug.
604.3	Bioavailability and bioequivalence of drug products and their significance.

604.4	Able to understand various pharmacokinetic parameters, their significance & applications.
604.5	Apply Multicompartment models like Two compartment and calculating loading and maintenance doses and their significance.
604.6	Explain various Nonlinear Pharmacokinetics, factors causing Nonlinearity and Michaelis-menton method.
Industrial Pharmacy I (BP605TP)	
605.1	Understand and apply the knowledge of physical and chemical properties of drug in formulation of dosage form
605.2	Able to formulate and evaluate different types of tablets, coating of tablets, liquid orals
605.3	Able to formulate and evaluate hard and soft gelatine capsule, pellets
605.4	Outline manufacturing requirement, formulation composition and QC test of sterile dosage forms
605.5	Ability to perform preparation and evaluation of cosmetic preparations
605.6	Know compositions selection and manufacturing of aerosolised dosage forms and its application and concept of packaging material science in dosage form design