

B. Pharm. Semester-IV

COs	Statement
Pharmaceutical Organic Chemistry III (BP401TT)	
401.1	Understand and able to explain stereochemical aspects and stereochemical reaction for stereoisomerism,
401.2	To Study nomenclature, properties, synthetic routes and chemical reaction of various heterocyclic compounds like pyrrole, furan and thiophene
401.3	Understand nomenclature, properties, synthetic routes and chemical reaction of various heterocyclic compounds like pyridine, Azepine, oxazole, Pyrazole
401.4	Explain nomenclature, properties, synthetic routes and chemical reaction of various heterocyclic compounds like Thiazole, Imidazole, Quinoline, Isoquinoline, Acridone, Indole, Pyrimidine, Purine and their derivatives
401.5	Understand and able to explain stereochemical aspects and stereochemical reaction for Geometrical isomerism,
401.6	To know the synthetic scheme and medicinal importance of various name reaction.
Medicinal Chemistry I (BP402TP)	
402.1	To understand history, basic concepts of Medicinal chemistry, physicochemical Parameter and metabolic pathways of drugs
402.2	To know classification, Mechanism of action, structural activity relationship, therapeutically uses of Sympathetic system
402.3	Summarize a category of Drugs used in treatment of CNS Disorder like psychosis, sedative & Hypnotics.
402.4	To know classification, Mechanism of action, structural activity relationship, therapeutically uses of Parasympathetic system
402.5	To Understand classification, Mechanism of action, structural activity relationship, medicinal use of Anticonvulsant.
402.6	Describe medicinal compounds of CNS class like general anesthetics, Narcotic and Non-narcotic analgesics, NSAIDs
Physical Pharmaceutics II (BP403TP)	
403.1	To understand about principal of colloids with its different properties.
403.2	To know about different types of rheological properties of different liquids and its measurement.
403.3	Know about formulation evaluation and stability aspects of suspension and emulsion.
403.4	To understand the concept of micromeritic like particle size, shape, density, flow property, porosity and its measurements.
403.5	To perform stability study of dosage form, and understand factors affecting stability and its preventions
403.6	To find order of reaction involved in pharmaceutical process and factor affecting it.
Pharmacology I (BP404TP)	
404.1	Understand the basic pharmacological knowledge about pharmacokinetics of drugs.
404.2	Acquire the knowledge about pharmacodynamics concerned with the effects and

	mechanism of drugs.
404.3	Learn the importance of adverse drug reactions and drug interactions along with examples as well as drug discovery by preclinical and clinical trials.
404.4	Describe the pharmacology of drugs acting on peripheral nervous system.
404.5	Gain the knowledge of transmission of neurotransmitters and its relevance with the pharmacology of drugs affecting central nervous system.
404.6	Explain the pharmacological aspects of opioid analgesics and alcohols with giving emphasis to drug addiction, abuse, tolerance and dependence.
Pharmaceutical Jurisprudence (BP405TT)	
405.1	Know the various parameters in drugs and cosmetics act and rules
405.2	Details study of Pharmacy Act, Medicinal and Toilet Preparation Act, Narcotic Drugs and Psychotropic substances
405.3	Understand the Various acts like Prevention of Cruelty to animals, Drugs and Magic Remedies Act, Medical Termination of Pregnancy Act
405.4	Able to Know various pricing authority like DPCO, NLEM
405.5	Concepts of Law regulating the introduction of new drugs, Right to information
405.6	Ability to practice the Professional ethics and pharmaceutical legislation in India