


CHOICE BASED CREDIT SYSTEM (CBCS) SEM III (2016 SYLLABUS)

Sr.No.	Code	Name of Subject	Course outcome
17	BPH C 301 T	ORGANIC CHEMISTRY I	1. The learner should be able to assign IUPAC and stereochemical nomenclature of compounds containing multiple functional groups
			2. The learner should be able to predict aromatic character, resonance and tautomerism of compounds
			3. The learner should be able to explain the reactivity of compounds based on physicochemical properties .
			4. The learner should be able to understand the factors affecting equilibria, rates and reaction mechanisms
			5. The learner should be able to explain the influence of structure on physicochemical properties and its application to various aspects of pharmaceuticals
18	BPH C 302 T	PHYSICAL PHARMACY I	1. The learner should be able to understand the various physical phenomena involved in designing of various formulations
			2. The learner should be able to determine various physical parameters of drugs and formulations
			3. The learner should be able to predict and anticipate in process problems based on raw materials and manufacturing methods
			4. The learner should be able to apply the knowledge of physical phenomena in selecting raw materials, including drug, inactive ingredients of appropriate quality leading to stable formulations.
19	BPH C 303 T	ANATOMY PHYSIOLOGY AND PATHOPHYSIOLOGY III	1. The learner should be able to explain the anatomy, and physiology of the reproductive system, cardiovascular system, urinary system and digestive system and know the concept, significance and application of ECG
			2. The learner should be able to comprehend the etiology, pathogenesis, signs and symptoms of common diseases of the reproductive system, cardiovascular system, urinary system and digestive system
			3. The learner should be able to state the relevance of various body fluid compartments, electrolyte distribution and acid-base balance.
20	BPH C 304 T	PHARMACEUTICAL ANALYSIS I	1. The learner should be able to explain the role of pharmaceutical analysis in the field of pharmacy and industry
			2. The learner should be able to describe volumetric, gravimetric, electrochemical and solvent extraction methods of analysis
			3. The learner should be able to solve numerical problems related to volumetric, gravimetric and solvent extraction methods
			1. The learner should be able to understand mechanics of fluid, fluid flow, and its measurements
			2. The learner should be able to classify and describe pumps, heat measuring devices and conveyors .

21	BPH C 305 T	PHARMACEUTICAL ENGINEERING	3. The learner should be able to understand basic principles involved in unit operations such as crystallization, evaporation, distillation and refrigeration and will be able to describe the equipment and accessories involved therein.
			4. The learner should be able to summarize construction material, discuss corrosion of equipment from pharmaceutical industry point.
			5. The learner should be able to define and categorize the different industrial hazards.
22	BPH C 306 L	ORGANIC CHEMISTRY LAB I	1. The learner should be able to practice and follow safety rules and precautionary measures in laboratory
			2. The learner should be able to explain theoretical aspects of physical constant determination, detection of functional groups and log P.
			3. The learner should be able to characterize/ Identify/spot monofunctional or bifunctional organic compounds by physical constant, elemental analysis and functional group analysis
23	BPH C 307 L	PHYSICAL PHARMACY LAB I	1. The learner should be able to understand the principle and methods for determination of various physical parameters of drugs and formulations
			2. The learner should be able to carry out various physical tests involved in characterization of drugs
			3. The learner should be able to demonstrate testing of various physical parameters involved in preformulation and formulation evaluations
24	BPH C 308 L	PHARMACEUTICAL ANALYSIS LAB I	1. The learner should be able to employ practice of calibration and proper handling of volumetric apparatus, electronic analytical balance and safety measures in the laboratory
			2. The learner should be able to demonstrate eye hand coordination required for titrimetric analysis
			3. The learner should be able to perform and record, calculate and interpret data obtained for experiments related to volumetric, gravimetric and solvent extraction methods of analysis
			4. The learner should be able to conduct and evaluate various tests mentioned in a pharmacopoeial monograph