

B. Pharm. Semester-I

COs	Statement
Human Anatomy and Physiology – I (BP101TP)	
101.1	Understand homeostasis and basic life processes along with cellular and tissue level of organization.
101.2	Explain anatomy and physiology of Integumentary and Skeletal system with joints in human body.
101.3	Know about different body fluids with detailed study about blood.
101.4	Acquire knowledge about structure and functions of lymphatic and peripheral nervous system including spinal and cranial nerves.
101.5	Understand about anatomical and physiological role of sense organs in the human body.
101.6	Describe anatomy and physiology of heart and associated blood vessels.
Pharmaceutical analysis (BP102TP)	
102.1	To understand <ul style="list-style-type: none"> ● basic concept of pharmaceutical analysis, ● preparation and standardization of different reagents and ● Source of Impurity and its qualitative and semi quantitative analysis. ● different p' copieas, source of impurities & limit test as per p' copia Able to predict errors, their cause and minimization.
102.2	Will be able to explain acid base and non-aqueous titrations
102.3	To know about the basic, principle and application of precipitation, complexometric, diazotization titration and gravimetric analysis.
102.4	To develop the understanding of different redox titrations
102.5	Able to describe different types electrochemical analytical techniques in detail
102.6	To develop skill for analyzing different compounds by different volumetric analysis and to operate analytical instruments used for finding normality by electrochemical methods
Pharmaceutics I (BP103TP)	
103.1	Explain the history of profession of pharmacy
103.2	Define, explain and classify different dosage forms with their advantages and disadvantages.
103.3	Identify and explain different types of pharmaceutical incompatibilities.
103.4	Analyse prescription and describe its parts, handling and error
103.5	Able to prepare and dispense different dosage forms like solid, liquid and semisolid
103.6	Understand posology with factors affecting it & compute the drug dose based on different factors and pharmaceutical calculation.
Pharmaceutical Inorganic Chemistry (BP104TP)	
104.1	Classify and describe sources of impurities and method to determine impurities by

	limit test.
104.2	Explain electrolyte and reagents for pharmaceutical preparation
104.3	To know importance of various Gastrointestinal agents like antacids, Cathartics, Antimicrobials and acidifiers
104.4	Know importance of buffers and dental Products in pharmacy, their preparation and measurement
104.5	To know importance of various Pharmaceutical inorganic compounds of different categories like Expectorants, Emetics, Haematinics, Antidotes and Astringent
104.6	Employ the use of radiopharmaceuticals in medicine preparation and diagnostics.
Communication Skills (BP105TP)	
105.1	Understand basics of communication.
105.2	Able to understand verbal and non verbal communication effectively.
105.3	Explain different techniques related to listening skills, becoming an active listener, listening in difficult situation.
105.4	Explain different interview methods, dealing with fears while giving the presentation.
105.5	Able to explain role of a group member in the group discussion.
105.6	Able to write effectively.
Remedial Biology (BP106TP)	
106.1	Know about living organisms and its binomial nomenclature; study of different parts of plant
106.2	General Morphology and Microscopy of plant
106.3	Describe body fluids with circulation, digestion and absorption of food, breathing and respiration.
106.4	Explain Anatomy and Physiology of Excretory, Nervous, Endocrine and Reproductive system of human body
106.5	Understand Plant and Mineral nutrition along with photosynthesis process.
106.6	Gain the knowledge of plant cells and tissue with their respiration, growth and development
Remedial Mathematics (BP107TT)	
107.1	Able to understand polynomials, type of fractions, logarithms and applications of logarithms, functions, limits and continuity.
107.2	Introduce to matrices, types of matrices, operations on matrices, matrix multiplication, determinants, properties of determinants, product of determinant, minors and cofactors.
107.3	Explain singular and non - singular matrices, determine ad-joint matrices, inverse of matrices Cramer's rule Cayley - Hamilton's theorem and applications of matrices for solving pharmacokinetic equations.
107.4	Introduce to differentiations derivative of functions, successive differentiations, conditions for functions to be a maximum or a minimum at a point, applications.
107.5	Develop Basic Knowledge about signs of the coordinates, distance formula slope or

	gradients of straight line slope - intercept from of a straight line, integration standard formulae, integration by part and applications
107.6	To Explain : 1. Differential equations, exact equations, homogeneous equations applications in solving pharmacokinetic equations. 2. Properties of Laplace transform, Laplace transform, Elementary functions, Inverse Laplace transform of derivatives, applications