



**COURSE: HUMAN ANATOMY AND PHYSIOLOGY - II THEORY (BP201T)**

<b>CO No.</b>	<b>CO Statement</b>	<b>Bloom's Level</b>
BP201T.1	Demonstrate competency in identifying the major structures and function of the gross anatomy of the central nervous system and plexuses	Remember, Understand
BP201T.2	Recognize and describe the anatomical structures, the physiological functions of digestive system & explain the principles of energetics, mechanism with role of ATP, creatinine phosphate & BMR	Remember, Understand, Apply
BP201T.3	Analyze and describe the structures and functions of human anatomy and physiology from a regional perspective for the respiratory systems and urinary systems	Remember, Understand, Apply
BP201T.4	From a regional viewpoint, demonstrate competency in identifying the major glands of human body, their origins, and hormones with functions	Remember, Understand, Apply
BP201T.5	Discuss in depth the anatomy, physiology of respiratory system. use the knowledge of genetics to predict the structure & mechanism of chromosomes, genes & DNA and analyze the process of protein synthesis & genetic pattern of inheritance.	Remember, Understand, Apply



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**COURSE: PHARMACEUTICAL ORGANIC CHEMISTRY - I THEORY (BP202T)**

CO No.	CO Statement	Bloom's Level
BP202T.1	Identify class of organic compound and name them as per IUPAC nomenclature.	Understand
BP202T.2	Classify, draw structure of and identify isomerism of organic compounds.	Remember, Understand
BP202T.3	Describe the physical properties, reaction, reaction mechanism, orientation, reactivity, stability and chemical tests of alkane, alkenes, conjugated dienes, alkyl halide, alcohols, aldehyde, ketones, carboxylic acid and aliphatic amines.	Understand, Apply
BP202T.4	Describe preparation methods of alkane, alkenes, conjugated dienes, alkyl halide, alcohols, aldehyde, ketones, carboxylic acid and aliphatic amines.	Understand, Apply
BP202T.5	Review the applications of alkane, alkenes, conjugated dienes, alkyl halide, alcohols, aldehyde, ketones, carboxylic acid and aliphatic amines.	Remember, Understand

**COURSE: BIOCHEMISTRY – THEORY (BP203T)**

CO No.	CO Statement	Bloom's Level
BP203T.1	Classify, discuss chemical nature and role of bio-molecules like carbohydrates, lipids, nucleic acids, amino acids, enzymes, isoenzymes, coenzymes, proteins as well as state and describe concepts of bioenergetics, energy rich compounds.	Remember, Understand, Apply, Create
BP203T.2	Discuss enzyme kinetics, inhibition and regulation, along with importance of co-enzymes; outline therapeutic and diagnostic applications of enzymes, isoenzymes.	Remember, Understand, Apply, Analyze, Create
BP203T.3	Describe carbohydrate metabolism, anabolic and catabolic pathways, related disorders, hormonal regulation of glucose, as well as review processes of biological oxidation.	Remember, Understand, Apply, Analyze
BP203T.4	Review lipid metabolism, synthesis and oxidation of fatty acids, significance of cholesterol, related disorders as well as summarize amino acid metabolism and related disorders.	Remember, Understand, Apply, Analyze
BP203T.5	Illustrate nucleic acid synthesis and metabolism; describe the process of transcription, translation, genetic information transfer.	Remember, Understand, Apply, Analyze



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**COURSE: PATHOPHYSIOLOGY - THEORY (BP204T)**

CO No.	CO Statement	Bloom's Level
BP204T.1	Gain in-depth knowledge of human pathological processes and their effects on homeostasis. Emphasize interrelationship among organ systems in deviations from homeostasis.	Remember, Understand, Apply, Analyze
BP204T.2	Understand fundamental concepts and processes of human pathophysiology such as alterations in cellular function, infection; mechanism of inflammation and diseases of the immune systems.	Remember, Understand, Apply, Analyze
BP204T.3	Analyze factors that contribute to the occurrence of various diseases of cardiovascular, respiratory, renal, endocrine, nervous, gastrointestinal and skeletal system etc. Recognize the signs and symptoms of diseases that may be found in a health record.	Remember, Understand, Apply, Analyze
BP204T.4	Describe broadly the different stages of infection due to infectious disease and host response; outline agent biology, pathogenesis, pathology of the disease and the manner in.	Remember, Understand, Apply, Analyze
BP204T.5	Apply contextual knowledge of pathophysiology to maintain health and to prevent the occurrence and spread of diseases in living matter making related awareness in the society.	Remember, Understand, Apply, Analyze

**COURSE: HUMAN ANATOMY AND PHYSIOLOGY - II PRACTICAL (BP207P)**

CO No.	CO Statement	Bloom's Level
BP207P.1	Develop the knowledge of anatomical structures and physiological functions of organs for the nervous, integumentary, digestive, respiratory, CVS, urinary and reproductive systems by studying models, charts, specimens & permanent slides.	Remember, Understand, Apply
BP207P.2	Demonstrate the general neurological examinations, positive-negative feedback mechanism, functions of olfactory nerves, and analyze the functions of special senses. Demonstrate the working of cell analyzer for total blood count.	Remember, Understand, Apply
BP207P.3	Understand the use of recording the body temperature, BMI, TIDAL volume and vital capacity, visual acuity, reflex activity, types of taste and of family planning devices to facilitate improvement in health and well-being.	Remember, Understand, Apply



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**COURSE: PHARMACEUTICAL ORGANIC CHEMISTRY - I PRACTICAL (BP208P)**

CO No.	CO Statement	Bloom's Level
BP208P.1	Analyze and identify qualitatively the alcohols, aldehyde ketones, carboxylic acid, phenols, hydrocarbons, esters, anilides and amines.	Apply, Analyze, Evaluate
BP208P.2	Relate the chemical structure and chemical properties of drug molecule and construct the molecular models of organic compounds.	Understand, Evaluate, Create
BP208P.3	Synthesize suitable derivatives of organic compound and identify the organic compound.	Analyze, Evaluate, Create

**COURSE: BIOCHEMISTRY - PRACTICAL (BP209P)**

CO No.	CO Statement	Bloom's Level
BP209P.1	Identify, quantify carbohydrate, protein, creatinine, cholesterol from a given sample.	Apply, Analyze, Evaluate
BP209P.2	Identify abnormal constituents of urine, estimate blood sugar level and study salivary amylase activity.	Apply, Analyze, Evaluate
BP209P.3	Answer oral questions; write assignments and answers.	Apply, Analyze, Evaluate, Create

**COURSE : COMMUNICATION SKILLS –THEORY (BP105T)**

CO No.	CO Statement	Bloom's Level
BP105T.1	List and identify verbs and the passive voice	Apply, Analyze, Remember, Understand
BP105T.2	Apply the skills learnt to confidently stand in a group discussion.	Apply, Analyze, Evaluate
BP105T.3	Exercise the skills learnt to communicate effectively technically/businesswise	Apply, Analyze, Evaluate, Create
BP105T.4	Appreciate and imbibe the importance of ethics, human values, honesty and integrity	Remember, Understand



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**COURSE : COMMUNICATION SKILLS – PRACTICAL (BP111P)**

CO No.	CO Statement	Bloom's Level
BP111P.1	Practice the Basic Communication attributes required during meeting people, making friends, asking questions using Wordsworth® English language lab software.	Apply, Analyze, , Evaluate, Create
BP111P.2	Learn the Advanced techniques involved in effective communication, writing skills, interview handling skills, presentation skills, E-mail writing using Wordsworth® English language lab software.	Apply, Analyze, Evaluate
BP111P.3	Plan, execute and conclude the tasks using various methodologies (defined protocol or qualitative or quantitative techniques).	Apply, Analyze, Evaluate, Create

**COURSE : COMPUTER APPLICATIONS IN PHARMACY– THEORY (BP205T)**

CO No.	CO Statement	Bloom's Level
BP205T.1	Recognise the number systems and information systems and software	Apply, Analyze, Remember, Understand
BP205T.2	Understand the application of computers in pharmacy and preclinical development	Apply, Analyze, Evaluate
BP205T.3	Discuss the concept of Bioinformatics and its application	Apply, Analyze, Evaluate, Create

**COURSE : COMPUTER APPLICATIONS IN PHARMACY– PRACTICAL (BP210P)**

CO No.	CO Statement	Bloom's Level
BP210P.1	Describe the components of a PC	Apply, Analyze, Remember, Understand
BP210P.2	Compare the different operating systems	Apply, Analyze, Evaluate
BP210P.3	Record simple programs using BASIC and C programming languages	Apply, Analyze, Evaluate, Create
BP210P.4	Apply knowledge gained for use of computers in the pharmacy	Apply, Analyze, Remember, Understand