



### COURSE OUTCOMES

<b>First Year B. Pharmacy - Semester – I</b>	
<b>CO ID</b>	<b>COURSE OUTCOMES:</b> After successful completion of course students will be able to...
<b>BP101T</b>	<b>Human Anatomy and Physiology I – Theory</b>
BP101T.1	Recall the basic anatomical terms, levels of organization, and physiological concepts.
BP101T.2	Explain the structure and functions of integumentary, skeletal, and muscular systems, including joints.
BP101T.3	Describe the composition and functions of body fluids, blood, hemopoiesis, coagulation, and lymphatic system.
BP101T.4	Explain the peripheral and autonomic nervous systems and special sense organs.
BP101T.5	Apply knowledge of the cardiovascular system to interpret cardiac cycle, blood pressure, and ECG basics.
<b>BP102T</b>	<b>Pharmaceutical Analysis I – Theory</b>
BP102T.1	Understand basic concept of pharmaceutical analysis.
BP102T.2	Illustrate preparation and standardization of solutions, as well as estimation of substances.
BP102T.3	Explain the various volumetric titrations.
BP102T.4	Discuss the principles involved in gravimetric and redox titrations.
BP102T.5	Describe the principle, instrumentation, working and applications of electrochemical methods of analysis.
<b>BP103T</b>	<b>Pharmaceutics I – Theory</b>
BP103T.1	Understand and describe the history and scope of the pharmacy profession and pharmacopoeias.
BP103T.2	Explain different dosage forms, parts of a prescription and the basic principles of posology.
BP103T.3	Apply basic pharmaceutical calculations related to weights, measures, and solutions.
BP103T.4	Identify and describe various solid, liquid, monophasic, and biphasic dosage forms.
BP103T.5	Understand the basic concepts of pharmacy, dosage forms, pharmaceutical calculations, and incompatibilities.



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<b>BP104T</b>	<b>Pharmaceutical Inorganic Chemistry - Theory</b>
BP104T.1	Impart knowledge of inorganic pharmaceutical substances and their medicinal importance.
BP104T.2	Understand the sources, types, and control of impurities in pharmaceutical substances.
BP104T.3	Study and apply limit tests and assays of inorganic compounds as per pharmacopoeial standards.
BP104T.4	Develop analytical and problem-solving skills related to inorganic drugs.
BP104T.5	Understand the principles, applications, safety aspects, and pharmaceutical importance of radiopharmaceuticals and radioactive substances.
<b>BP105T</b>	<b>Communication skills – Theory</b>
BP105T.1	Identify and explain key behavioral skills for professional pharmacy practice.
BP105T.2	Understand and demonstrate effective verbal and non-verbal communication.
BP105T.3	Interpret and apply suitable communication styles and listening skills.
BP105T.4	Apply writing principles to develop clear professional documents.
BP105T.5	Develop teamwork and leadership skills for successful interviews and professional practice.
<b>BP106RBT</b>	<b>Remedial Biology – Theory</b>
BP106RBT.1	Identify the classification and main features of the five kingdoms of life.
BP106RBT.2	Describe the morphology and anatomy of flowering plants.
BP106RBT.3	Explain basic plant physiological processes like nutrition, photosynthesis and respiration.
BP106RBT.4	Describe the structure and functions of major human organ systems.
BP106RBT.5	Understand cell structure, tissues, reproduction and growth in living organisms.
<b>BP106RMT</b>	<b>Remedial Mathematics – Theory</b>
BP106RBT.1	Understand basic concepts of partial fractions, logarithms, functions and limits.
BP106RBT.2	Apply matrices and determinants to solve pharmaceutical problems.
BP106RBT.3	Use differentiation methods for solving calculus-based problems.
BP106RBT.4	Apply analytical geometry and integration in mathematical problem solving.
BP106RBT.5	Solve differential equations and Laplace transforms for pharmacokinetic applications.



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<b>First Year B. Pharmacy - Semester – II</b>	
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	After successful completion of course students will be able to...
<b>BP201T</b>	<b>Human Anatomy and Physiology II – Theory</b>
BP201T.1	Explain the structure and functions of the nervous system and its components.
BP201T.2	Describe digestion, respiration, excretion and energy metabolism in the human body.
BP201T.3	Explain the structure and functions of respiratory and urinary systems with their regulation.
BP201T.4	Describe endocrine glands, hormones and their role in body regulation.
BP201T.5	Explain the reproductive system, basic genetics and mechanisms involved in human reproduction.
<b>BP202T</b>	<b>Pharmaceutical Organic Chemistry I – Theory</b>
BP202T.1	Identify and write classification, nomenclature, and isomerism of organic compounds.
BP202T.2	Explain reaction mechanisms, orientation and types of reactions in organic compounds.
BP202T.3	Understand factors affecting stability and reactivity of organic molecules.
BP202T.4	Identify and confirm organic compounds using reactions and qualitative tests.
BP202T.5	Describe structure, preparation, reactions, and uses of important organic compounds.
<b>BP203T</b>	<b>Biochemistry – Theory</b>
BP203T.1	Understand the structure, classification and biological role of biomolecules and bioenergetics.
BP203T.2	Explain carbohydrate metabolism, biological oxidation and their regulation in normal and disease conditions.
BP203T.3	Describe lipid and amino acid metabolism and related metabolic disorders.
BP203T.4	Understand nucleotide metabolism and disorders related to purine and pyrimidine metabolism.
BP203T.5	Explain the structure, replication and expression of genetic material in protein synthesis.
<b>BP204T</b>	<b>Pathophysiology – Theory</b>
BP204T.1	Describe the causes, mechanisms and cellular changes involved in disease processes.
BP204T.2	Explain the pathophysiology of cardiovascular, respiratory and renal disorders.
BP204T.3	Describe hematological, endocrine, nervous and gastrointestinal diseases with their signs and symptoms.
BP204T.4	Explain inflammatory, metabolic, bone, joint and cancer-related disorders.
BP204T.5	Describe infectious and sexually transmitted diseases with their basic pathogenesis.

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<b>BP205T</b>	<b>Computer Applications in Pharmacy – Theory</b>
BP205T.1	Identify different applications of computers used in pharmacy practice.
BP205T.2	Understand number systems, software concepts and database fundamentals.
BP205T.3	Explain the use of databases and web technologies in pharmaceutical applications.
BP205T.4	Describe computer applications in drug design, hospital, clinical and diagnostic systems.
BP205T.5	Understand the role of computers in bioinformatics and data analysis during preclinical development.
<b>BP206T</b>	<b>Environmental sciences</b>
BP206T.1	Understand the multidisciplinary nature of environmental studies and natural resources.
BP206T.2	Explain different ecosystems and their structure and functions.
BP206T.3	Describe types, causes and effects of environmental pollution.
BP206T.4	Develop awareness and responsibility toward environmental protection and conservation.
BP206T.5	Apply basic knowledge to identify and help solve environmental problems for sustainable living.



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