

## B. Pharm. Semester-V

COs	Statement
<b>Medicinal Chemistry II (BP501TT)</b>	
501.1	Describe classification, Mechanism of action, structural activity relationship, therapeutic uses of Antihistaminic drugs and antineoplastic agents
501.2	Describe classification, Mechanism of action, structural activity relationship and therapeutic uses of Anti-anginal, Diuretics and Anti-hypertensive agents.
501.3	Describe classification, Mechanism of action, structural activity relationship and therapeutic uses of Anti-arrhythmic agents, Drugs used in Congestive heart failure and Coagulants and anti-coagulants.
501.4	Describe classification, mechanism of action, structural activity relationship, therapeutic uses of Antihyperlipidemic agents and anti-thyroid drugs.
501.5	Describe classification, mechanism of action, structural activity relationship, therapeutic uses of Steroid and endocrine drugs.
501.6	Describe classification, mechanism of action, structural activity relationship, therapeutic uses of Anti-diabetic and local anaesthetic category of drugs.
<b>Pharmacology II (BP502TP)</b>	
502.1	Understand the pharmacology of drugs acting on cardiovascular system.
502.2	Know and understand the pharmacology of drugs used in shock, haemopoietic system and urinary system.
502.3	Gain the knowledge of autocoids, their related drugs and drugs used in arthritis
502.4	Describe the basic concepts and pharmacology of hormones and related drugs of endocrine glands (Pituitary gland, Thyroid gland, Parathyroid gland and Pancreas)
502.5	Explain pharmacology of hormones and their related drugs acting on adrenal gland and reproductive system.
502.6	Determine the concentration of unknown substance by using bioassay methods with their importance and applications.
<b>Pharmacognosy and Phytochemistry II (BP503TP)</b>	
503.1	Able to explain metabolic pathways in higher plants and their determination.
503.2	Know and identify the crude drugs, their chemistry and application for secondary metabolites.
503.3	To carry out isolation, identification and analysis of phytoconstituents.
503.4	To understand identification, production, estimation and utilization of phytoconstituents.
503.5	Know the modern extraction techniques,
503.6	Know about characterization and identification of herbal drugs & phytoconstituents.
<b>Pharmaceutical Microbiology (BP504TP)</b>	
504.1	Explain and demonstrate various methods of identification, cultivation, preservation

	and staining technique of microorganisms.
504.2	Able to apply various methods sterilization.
504.3	Able to apply various techniques of disinfection for maintain aseptic conditions.
504.4	Understand and apply principles and method of different microbiological assay of antibiotics, vitamins and Amino acid.
504.5	Able to discuss about spoilage and its types, factors affecting sources and types of microbial contaminants and preservation of pharmaceuticals.
504.6	Understand and perform sterility testing of various dosage form.
<b>Pharmaceutical Biotechnology (BP505TT)</b>	
505.1	Apply the concept of various enzyme production, enzyme immobilization and biosensors with pharmaceutical industries
505.2	Understand the application of DNA technology and genetic engineering in medicine
505.3	Apply the concept of immunity, vaccine
505.4	Apply the concept of Hybridoma technology,, Blood products and Plasma Substituties
505.5	Understand the concept of microbial genetics
505.6	Apply the concept of fermentation and production of various biological products
<b>Contributor Personality Development Program (BP506TP)</b>	
506.1	Students will be able to recognize & appreciate two alternative ideals of work – ideal of a “worker” and ideal of a “contributor”. And why organizations of today expect people they employ to be contributors and not just workers.
506.2	Students will be able to recognize & appreciate alternative ways in which they could define themselves or “who am I” (their identity) – and which are positive identities that will lead to building intrinsic self-esteem and confidence in oneself; in contrast to identities that will lead to extrinsic self-esteem that makes them more dependent on their environment.
506.3	Students will be able to recognize & appreciate a “victim” stance as distinct from a “creator of destiny” stance in the way people approach challenges and situations; and how the latter frees individuals to take on challenges and open up opportunities.
506.4	Students will be able to differentiate between two alternative approaches to success - ‘building one’s engine of success’ and ‘chasing the fruits of success’; they also appreciate the payoffs/ consequences of both and which is more likely to lead to sustainable or lasting success in the long run.
506.5	Students will be able to recognize & appreciate different career models and their value; to help them make more informed career-related choices.
506.6	Students will be able to recognize & appreciate how one can expand the contribution possible in any role, thereby opening up an alternative way of career growth to them.
<b>Integrated Personality Development Course (BP507TP)</b>	
507.1	To teach self-analysis, facing failures and self-improvement exercises to enhance the potential of the participants.
507.2	To provide students with a value-based education which will enable them to be successful in their life through examples of legends.

507.3	To provide students with hard and soft skills, making them more marketable in mass management along with broader sense of self-confidence and development of leadership skills.
507.4	To educate students on their social responsibilities as citizens of India and to make them aware of glorious history of our country.
507.5	To provide students with a holistic education – focused on increasing their intelligence quotient, physical quotient, emotional quotient and spiritual quotient to be successful in their family, professional, and social relationships by improving their moral and ethical values.
507.6	To educate them about importance of financial planning and money management for good life