



Shri Balaji Shikshan Prasarak Mandal's
B. PHARMACY COLLEGE
Modi learning Centre, Ring Road, Ambajogai, Beed.



COURSE: MEDICINAL CHEMISTRY II THEORY (BP501T)

CO No.	CO Statement	Bloom's Level
BP501T.1	Explain the chemistry of drugs with respect to their pharmacological activity and mode of action.	Remember, Understand
BP501T.2	Explain the drug metabolic pathways, adverse effects, therapeutic values and causes & treatment of diseases mentioned.	Remember, Understand, Apply
BP501T.3	Know the structural activity relationship of different classes of drugs.	Remember, Understand, Apply, Analyze
BP501T.4	Explain and outline the reaction for the synthesis of selected drugs.	Remember, Understand, Apply
BP501T.5	Define and classify the different classes of drugs with suitable example and structure.	Remember, Understand, Apply



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COURSE: INDUSTRIAL PHARMACY I (BP502T)



CO No.	CO Statement	Bloom's Level
BP502T.1	Know the goals, objectives and methods of preformulation studies which are utilized for the development of solid, liquid oral and parenteral dosage forms.	Remember, Understand, Apply
BP502T.2	Know the concepts of formulation, manufacturing techniques, evaluation and packaging for various pharmaceutical dosage forms like tablets, capsules, pellets and liquid orals.	Remember, Understand, Apply, Analyze, Evaluate
BP502T.3	Know the concepts of formulation, manufacturing techniques, evaluation and packaging for various pharmaceutical dosage forms like parenteral products and ophthalmic preparations.	Remember, Understand, Apply, Analyze, Evaluate
BP502T.4	Know the concepts of formulation, manufacturing techniques, quality control and packaging for cosmetics and pharmaceutical aerosols.	Remember, Understand, Apply, Analyze, Evaluate
BP502T.5	Use the effective packaging principles and techniques to classify the packaging material to be used in pharma industry along with its stability aspects and quality control tests.	Remember, Understand, Apply, Analyze, Evaluate

COURSE: PHARMACOLOGY II-THEORY (BP503T)

CO No.	CO Statement	Bloom's Level
BP503T.1	Explain the pharmacology of different drugs acting on cardiovascular system and gain the knowledge regarding hemodynamic and electrophysiology of heart.	Remember, Understand, Apply
BP503T.2	Reacquire the knowledge of haematinic, coagulants, anticoagulants, fibrinolysis, antiplatelet and drugs used in shock and have glimpse on diuretics, anti-diuretics and plasma volume expanders.	Remember, Understand, Apply
BP503T.3	Elucidate the term autacoids with their classification and define terms rheumatism, gout, inflammation along with drugs acting on it and give an account on different inflammatory mediators.	Remember, Understand, Apply
BP503T.4	Explain the concept of endocrine system including anterior pituitary hormone, oral hypoglycemic agents, thyroid hormones, hormone regulating, plasma calcium level and autacoids.	Remember, Understand, Apply
BP503T.5	Develop coherent knowledge of anabolic steroids, sex hormones, oral contraceptives along with drugs acting on uterus, elsewhere discuss and understand term bioassay with their types, principal and applications.	Remember, Understand, Apply



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COURSE: PHARMACOGNOSY AND PHYTOCHEMISTRY II THEORY (BP504T)

CO No.	CO Statement	Bloom's Level
BP504T.1	Explain the basic metabolic pathways and formation of different secondary metabolites through these pathways and also utilization of radioactive isotopes in the investigation of biogenetic studies	Remember, Understand
BP504T.2	Apply the knowledge of bio-sources, chemistry, therapeutic uses and commercial applications of different secondary metabolites to facilitate improvement in health, well-being and to assess societal, safety issues	Apply
BP504T.3	Utilize the information regarding isolation of different phytoconstituents from crude drugs and think analytically, critically to identify and analyze these phytoconstituents present in different extracts	Apply, Analyze
BP504T.4	Analyze the impact of phytoconstituents in improving health and accordingly utilize the knowledge of phytoconstituents to assess their industrial production, estimation and utilization in facilitating improvement in health and well-being.	Analyze
BP504T.5	Communicate effectively modern methods of extraction with the pharmacy community and with society at large also apply latest techniques like spectroscopy, chromatography, electrophoresis in the isolation, purification and identification of specific phytoconstituents.	Apply

COURSE: PHARMACEUTICAL JURISPRUDENCE- THEORY (BP505T)

CO No.	CO Statement	Bloom's Level
BP505T.1	Describe the various schedules and their applications in pharmacy, role of pharmacy council of India	Remember, Understand, Apply
BP505T.2	Explain the significance and relevance of pharmaceutical laws in India and role of ethics in pharmacy profession.	Remember, Apply
BP505T.3	Explain how drug and cosmetics act 1940 was executed & legal requirement related to import and export.	Remember, Understand, Apply
BP505T.4	Analyze requirements of manufacturing, labelling and packaging of formulation, fixing the prize of bulk drugs & its advertisements.	Remember, Understand, Apply
BP505T.5	To consolidate and amend the law related to narcotic drugs for the control and regulation of operations related to narcotic drugs and psychotropic substances.	Remember, Understand, Analyze



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COURSE: INDUSTRIAL PHARMACY I - PRACTICAL (BP506P)

CO No.	CO Statement	Bloom's Level
BP506P.1	Ability to design and evaluation of dosage forms like tablets, capsules, parenteral products and cosmetics.	Remember, Understand, Apply, Evaluate, Create
BP506P.2	Critically use the acquired knowledge with skills to work in the pharma formulation and development.	Remember, Understand, Apply, Analyze
BP506P.3	Apply the knowledge of industrial pharmacy for the production of tablets, capsules, parenteral products and cosmetics with good manufacturing practices.	Remember, Understand, Apply, Evaluate, Create

COURSE: PHARMACOLOGY- II PRACTICAL (BP507P)

CO No.	CO Statement	Bloom's Level
BP507P.1	Gain the knowledge of different bioassay method used to study effect of drugs on isolated tissue preparation on experimental animal and explain their use in pharmacology.	Remember, Understand, Apply
BP507P.2	Perform or demonstrate the effects of drugs on isolated tissue preparation on experimental animal.	Remember, Understand, Apply
BP507P.3	Analyze the term pa_2 value and pd_2 value to maintain relationship between two drugs competing for effect on same receptor.	Remember, Understand, Apply

COURSE: PHARMACOGNOSY AND PHYTOCHEMISTRY- II PRACTICAL (BP508P)

CO No.	CO Statement	Bloom's Level
BP508P.1	Apply the skill of sectioning, staining, mounting and focusing to study macroscopic, microscopic structures and powder characteristics of different plant material	Apply
BP508P.2	Apply appropriate procedures and methods systematically for isolation and detection of phytoconstituents from crude drugs and also screening of these constituents by using chromatographic techniques.	Apply, Analyze
BP508P.3	Gain the depth in writing effective assignments, making effective orals, presentations and documentation in pharmacognosy.	Understand, Apply