

Course code/ Course name		Course Outcome
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BP301T Pharmaceutical Organic Chemistry II	BP301T.1	Understand the basic concept, principle of pharmaceutical organic c
	BP301T.2	Remember the nomenclature, chemistry, properties of pharmaceutic
	BP301T.3	Describe the method of preparations of pharmaceutical organic com
	BP301T.4	Apply the knowledge of the organic chemistry in reference to reactio
	Average	
BP302T PhysicalPharmaceuticsI –Theory	BP302T.1	Understand basic concepts related to physico-chemical principles
	BP302T.2	Learn and memorize solubility parameter, properties and types of
	BP302T.3	Describe various methods determination of Refractive index,
	BP302T.4	Apply physicochemical principles in formulation and development
	Average	
BP303T Pharmaceutical Microbiology –Theo	BP303T.1	Understand basic concepts related to pharmaceutical microbiology,
	BP303T.2	Learn & memorize classification of microbes , Historical
	BP303T.3	Describe various methods of Identification, isolation & counting of
	BP303T.4	Apply knowledge of various microorganism, Staining technique,
	Average	
BP304T Pharmaceutical Engineering – Theory	BP304T.1	To understand basic concepts of mass & heat transfer, drying,
	BP304T.2	To remember theories of mass & heat transfer, drying, evaporation,
	BP304T.3	To describe various methods, principles, construction, working,
	BP304T.4	To apply knowledge of various unit operation and processes in

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	Average	
BP305P Pharmaceutical Organic Chemistry II	BP305P.1	Understand the handling of various instruments and chemicals with
	BP305P.2	Remember the basic concept and principle of laboratory technique and
	BP305P.3	Perform the experiments regarding the estimation of saponification
	BP305P.4	Prepare the lab record book related to experimental procedure,
	Average	
BP306P Physical Pharmaceutics I –Practical	BP306P.1	Perform experiments to determine the solubility, pKa, partition
	BP306P.2	Explain basic concepts, principles and application of solubility,
	BP306P.3	Documentation and record results of experiments on CST, solubility,
	BP306P.4	Understand the handling of various instruments, glassware and
	Average	
BP307P Pharmaceutical Microbiology – Practical	BP307P.1	Understand the safety aspects and handling of various
	BP307P.2	Understand basic concept of different techniques of pharmaceutical
	BP307P.3	Ability to organize basic setup and perform experiments on
	BP307P.4	Maintain the records related to procedural methods of culture
	Average	
BP308P Pharmaceutical Engineering – Practical	BP308P.1	To understand about various unit operations that can be used in
	BP308P.2	To learn about operation and application of various equipments /
	BP308P.3	To determine environmental parameters and its importance in
	BP308P.4	To identify and apply skill of knowledge about various factors
	Average	
BP401T Pharmaceutical Organic Chemistry	BP401T.1	Understand the basic concept, principle of pharmaceutical organic
	BP401T.2	Remember the nomenclature, chemistry, properties of

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BP401T Pharmaceutical Organic Chemistry III– Theory	BP401T.3	Describe the method of preparations of pharmaceutical organic
	BP401T.4	Apply the knowledge of the organic chemistry in reference to
	Average	
BP402T Medicinal Chemistry I – Theory	BP402T.1	Understand the physicochemical properties in relation to biological action, Drug Metabolism and the chemistry of drugs belongs to ANS, CNS and Analgesic with respect to their pharmacological
	BP402T.2	Understand the drug metabolic pathways, adverse effect and therapeutic value of Drugs belongs to ANS, CNS and Analgesic
	BP402T.3	Know the Structural Activity Relationship (SAR) of different class of drugs belongs to ANS, CNS and Analgesic agents
	BP402T.4	Write the chemical synthesis of some drugs belongs to ANS, CNS and Analgesic agents
	Average	
BP403T Physical Pharmaceutics II – Theory	BP403T.1	Understand basic concepts related to physico-chemical principles
	BP403T.2	Learn and memorize classification of dispersed systems, Newtonian
	BP403T.3	Describe various methods for the determination of properties of
	BP403T.4	Apply physicochemical principles in formulation and development
	Average	
BP404T Pharmacology I – Theory	BP404T.1	Understand basics of pharmacodynamics and pharmacokinetics
	BP404T.2	Remember nature, source of drug, classification of drug acting on
	BP404T.3	Describe mechanism of action, drug interaction and Adverse drug
	BP404T.4	Learn clinical management of diseases related to CNS and PNS
	Average	

Course code/ Course name		Course Outcome
BP405T Pharmacognosy and Phytochemistry I – Theory	BP405T.1	To study and recall the fundamental of Pharmacognosy like scope, Definitions, Classifications, Cultivation collection of natural drugs including plant tissue culture, identification, evaluation, phytochemicals of natural origin with their medicinal properties.
	BP405T.2	To memorize and explain basic aspects of classifications, Cultivation collection of natural drugs including plant tissue culture, identification, evaluation, phytochemicals of natural origin with their medicinal properties.
	BP405T.3	To understand & describe methods involved in quality control of natural drugs, cultivation and collection including Plant tissue culture, qualitative analysis of crude drug as mentioned in subject
	BP405T.4	To apply the subject knowledge of crude drugs broadly from their source to Pharmaceutical & Industrial applications.
	Average	
BP406P Medicinal Chemistry I – Practical	BP406P.1	Understand the safety aspects and handling of various equipments, instruments and chemicals MSDS according to HMIS and NFPA for synthesis of organic compounds .
	BP406P.2	Remember principle of thin layer & column chromatography and Determine the Partition coefficient and Ionization constants
	BP406P.3	Perform the Synthesis and Recrystallization of compound and monitoring reactions with TLC
	BP406P.4	Prepare the lab record book related to experimental procedure, observation, calculation, IR spectra and result of experiment
	Average	

Course code/ Course name		Course Outcome
BP407P Physical Pharmaceutics II – Practical	BP407P.1	Perform experiments to determine the particle size, bulk density,
	BP407P.2	Explain basic concepts, principles and application of micromeritics,
	BP407P.3	Documentation and record results of experiments on determination
	BP407P.4	Understand the handling of various instruments, glassware and
	Average	
BP408P Pharmacology I – Practical	BP408P.1	Understand the basic instruments used in experimental
	BP408P.2	Remember the basic guidelines (CPCSEA) for animal
	BP408P.3	Learn various routes of drug administration, methods for blood
	BP408P.4	Report result of preclinical screening of drugs using isolated
	Average	
BP409P Pharmacognosy and Phytochemistry 1 – Practical	BP409P.1	To understand handling of various chemicals and instruments such as Microscope, Micrometers, muffle furnace, Abbe's Refractometer as per SOPs with respect to safety aspects.
	BP409P.2	To learn the concepts associated with qualitative/quantitative evaluation of the crude drug of natural origin by applying experimental knowledge.
	BP409P.3	To perform experiments related to Qualitative chemical test/ quantitative microscopy/ preparation of slides/ quality control standardization parameters which involve ash value, extractive value, swelling index, moisture content as mentioned in the subject.
	BP409P.4	To record findings associated with qualitative/quantitative evaluation of the crude drug of natural origin as mentioned in subject
	Average	