

KONKAN GYANPEETH RAHUL DHARKAR COLLEGE OF PHARMACY AND RESEARCH INSTITUTE, KARJAT

(Approved by AICTE & P.C.I. (New Delhi), D.T.E. (Govt. of MS) & Affiliated to University of Mumbai & MSBTE)

CHOICE BASED CREDIT SYSTEM (CBCS) SEM IV (2016 SYLLABUS)

Sr.No.	Code	Name of Subject	Course outcome
.52.12.100	врн С 401 Т	Name of Subject	The leaner should be able to Outline few methods of preparation for
25			various functional groups
			2. The leaner should be able to understand how and why the C=O group
			reacts with nucleophiles (using molecular orbitals and curly arrows) to give
		ORGANIC CHEMISTRY II	varied products
			3. The leaner should be able to predict the molecules that can be
			synthesized by reaction of C=C groups with electrophiles
			4. The leaner should be able to understand reactivity of aromatic systems
			towards electrophiles and nucleophiles
	ВРН С 402 Т	PHYSICAL PHARMACY II	1. The leaner should be able to identify order of reactions, pathways of
26			drug degradation and types of drug complexes
			2. The leaner should be able to describe Fick's laws of diffusion,
			mechanism of drug dissolution and absorption.
			3. The leaner should be able to acquire understanding of drug complexes,
26			protein binding and their applications
			4. The leaner should be able to gain knowledge of the basic principles of
			coarse and colloidal dispersions
			5. The leaner should be able to apply basic principles of drug
			characterization to biopharmaceutical aspects of drug delivery
	врн С 403 Т	PHARMACEUTICS I	1. The leaner should be able to describe the status of Pharma Industry in
			India & elaborate on the different official compendia.recall the various
			types of dosage forms,routes of administration & describe the alternate
			system of medicine.
			2. The leaner should be able to explain the concepts & need for GMP &
			QA preformulation
27			3. The leaner should be able to summarize the packing of pharmaceutics.
			4. The leaner should be able to explain formulation
			consideration,unitvoperation,QA aspects of monophasic system & powders
			5. The leaner should be able to classify describe various biological
			products viz suures & ligatures,blood products &plasma volume expanders.
			Products of Indiana September 1
	врн С 404 Т	PHARMACOLOGY I	1. The leaner should be able to define the scope, general principles and
			applications of Pharmacology. Comprehend pharmacokinetic and
			pharmacodynamic principles along with ability to compare and contrast
			various routes of administration with advantages and disadvantages.
28			Understand the factors modifying drug action.
			2. The leaner should be able to classify receptors and elucidate their role
			in drug/neurotransmitter/hormone action. Understand the mechanisms of
			drug action.
			3. The leaner should be able to explain autonomic transmission and
			discuss the pharmacology of drugs acting on ANS and rationalize their
			therapeutic applications.
			4. The leaner should be able to explain the pharmacology of drugs acting
			on cardiovascular system and as diuretics and discuss their use in associated

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29	врн С 405 Т	MICROBIOLOGY	The leaner should be able to describe the classification of microorganism and list some of common diseases caused by them. The leaner should be able to use different microscopic techniques, stnning technique and differential media for identification of common diseases causing micriorganisms. The leaner should be able to describe different methods fr contro of growth of microorganism and method of preservation /sterilizaton of
			pharmaceutical products. 4. The leaner should be able to describe the importance of microbial testing and microbial limit tests for some pharmaceutical products
30	ВРН С 406 Т	MATHEMATICS AND STATISTICS	 The leaner should be able to know therotical concepts of topics and their application in pharmacy. The leaner should be able to solve the different types of problems by applying therotical concepts. The leaner should be able to appreciate the important application of mathematics and statistics in pharmacy
31	BPH C 407 L	PHYSICAL PHARMACY II LAB	The leaner should be able to determine reaction rate constant, order of reaction for different reaction The leaner should be able to predict shelf life by carrying out accelerated stability studies. The leaner should be able to calculate physical parameter uch as stability constant, moleular weight and critical micellar concentration.
32	BPH C 408 L	PHARMACEUTICS I LAB	The leaner should be able to prepare monophasic liquid system & powder system, justify the components and method preparation. The leaner should be able todemonstrate the properties of developes dosage form & biological products, comment on quality. 3. The leaner should be able to perform experiment as per GLP & record in journals.
33	BPH C 409 L	PHARMACOLOGY I LAB	1.The leaner should be able to perform in vitro experiment on cock ileum (tissue) to evaluate effect of drug (Ach)and dose on response (contraction) to comprehend and infer drug effects on receptor and its outcomes. 2. The leaner should be able to state the principles behind plotting dose-reponse of drug/agonist/antagonist and its application .Define pA2 value of antagonist. 3.The leaner should be able to oberve and explain the mechanism of action of neurotransmitter,drugs and ions on isolated frog heart. 4.The leaner should be able to knowledge of animal handling techniques and understanding of ethical guidelines governing animal experimentation.