



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

## REVISED CHOICE BASED CREDIT SYSTEM (R-CBCS) SEM III

Sr.No.	Code	Name of Subject	Course outcome
24	BP301T	PHARMACEUTICAL ORGANIC CHEMISTRY-II	1. Student shall be able to write the structure, name and the type of isomerism of the organic compound, 4. prepare organic compounds 2. Student shall be able to write the reaction, name the reaction and orientation of reactions 3. Student shall be able to account for reactivity/stability of compounds 4. Student shall be able to prepare organic compounds.
25	BP302T	PHYSICAL PHARMACEUTICS-I	1. Student shall be able to Understand various physicochemical properties of drug molecules in the designing the dosage forms 2. Student shall be able to know the principles of chemical kinetics & to use them for stability testing and determination of expiry date of formulations 3. Student shall be able to Demonstrate use of physicochemical properties in the formulation development and evaluation of dosage forms.
26	BP303T	PHARMACEUTICAL MICROBIOLOGY	1. Student shall be able to understand methods of identification, cultivation and preservation of various microorganisms. 2. Student shall be able to understand the importance and implementation of sterilization in pharmaceutical processing and industry 3. Student shall be able to learn sterility testing of pharmaceutical products 4. Student shall be able to carry out microbiological standardization of Pharmaceuticals. 5. Student shall be able to understand the cell culture technology and its applications in pharmaceutical industries.
27	BP304T	PHARMACEUTICAL ENGINEERING	1. Student shall be able to know various unit operations used in Pharmaceutical industries. 2. Student shall be able to understand the material handling techniques. 3. Student shall be able to perform various processes involved in pharmaceutical manufacturing process 4. Student shall be able to carry out various test to prevent environmental pollution 5. Student shall be able to appreciate and comprehend significance of plant lay out design for optimum use of resources. 6. Student shall be able to appreciate the various preventive methods used for corrosion control in Pharmaceutical industries
28	BP305P	PHARMACEUTICAL ORGANIC CHEMISTRY -II	1. Student shall be able to laboratory techniques like Recrystallization and Steam distillation 2. Student shall be able to determine Acid value, Saponification value and Iodine value 3. Student shall be able to Prepare of compounds like Benzanilide/Phenyl benzoate/Acetanilide from Aniline/ Phenol.
29	BP306P	PHYSICAL PHARMACEUTICS – I	1. Student shall be able to determine the solubility of drug at room temperature and pKa value by Half Neutralization/ Henderson Hasselbalch equation. 2. Student shall be able to determine of Partition co- efficient 3. Student shall be able to determine of surface tension of given liquids by drop count and drop weight method 4. Student shall be able to determine of critical micellar concentration of surfactants
30	BP307P	PHARMACEUTICAL MICROBIOLOGY	1. Student shall be able to study of different equipments and processing, e.g., B.O.D. incubator, laminar flow, aseptic hood, autoclave, hot air sterilizer, deep freezer 2. Student shall be able to Sterilize of glassware, preparation and sterilization of media. 3. Student shall be able to understand Microbiological assay of antibiotics by cup plate method and other methods 4. Student shall be able to understand Motility determination by Hanging drop method and Sterility testing of pharmaceuticals.
31	BP308P	PHARMACEUTICAL ENGINEERING	1. Student shall be able to determine of radiation constant of brass, iron, unpainted and painted glass and the overall heat transfer coefficient by heat exchanger 2. Student shall be able to understand concept of Steam distillation 3. Student shall be able to Determine of moisture content and loss on drying and humidity of air 4. Student shall be able to understand Size analysis by sieving and size reduction. 5. Student shall be able to understand Factors affecting Rate of Filtration and Evaporation