



Shri. Yashwantrao Bhonsale Education Society's

**YASHWANTRAO BHONSALE COLLEGE OF PHARMACY**

Bldg. No. 02, BKC, A/ P: Charathe - Vazarwadi, Tal: Sawantwadi, Dist.: Sindhudurg, Maharashtra- 416 510  
Approved by AICTE, PCI, New Delhi, Govt. of Maharashtra, DTE. Affiliated to Mumbai University (B. Pharm, M. Pharm) and MSBTE (D. Pharm) DTE Code: 3480; University Code: 1027; MSBTE Code: 1878

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**Mr. Achyut K. Sawantbhonsale**  
Executive Chairman

**Dr. Vijay A. Jagtap**  
Principal

**COURSE OUTCOMES**  
**ACADEMIC YEAR-2021-2022(TERM-I)**

<b>YEAR- FIRST YEAR B. PHARMACY</b>
<b>(TERM-I) SEMESTER-I</b>
<b>PCI SYLLABUS</b>

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Pharmaceutical Inorganic chemistry	BP104T	<b>CO1</b> -Describe the sources of impurities and methods of determination of the impurities in inorganic drugs and pharmaceuticals.
			<b>CO2</b> -Understand the pharmaceutical application of inorganic compounds.
			<b>CO3</b> -State the source, properties and medical significance of inorganic compounds.
			<b>CO4</b> -Identify Get an insight of medicinally important inorganic compounds.
			<b>CO5</b> -Understand pharmaceutically important radioactive substances.
2.	Pharmaceutical Analysis -I	BP102T	<b>CO1</b> -Estimate the basic concepts of pharmaceutical analysis, different analytical techniques, preparation and standardization of different solutions and errors.
			<b>CO2</b> - Illustrate the theories of acid-base indicators, neutralization curves and non-aqueous titration.
			<b>CO3</b> -Generalize the basic principles of precipitation titration, complexometric titration and gravimetric analysis.
			<b>CO4</b> -Understand the concept of oxidation reduction titration also principles and application of different types of redox titration.
			<b>CO5</b> -Describe the principles and concept of conductometry potentiometry and polarography.



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3.	Human Anatomy and Physiology -I	BP101T	<b>CO1</b> -Define the anatomy & physiology of cells, various tissues, organs, and systems with basic terminologies.
			<b>CO2</b> -Illustrate the structure and underline function of Integumentary system, skeletal system, joints, Cardiovascular system, Peripheral nervous system, Special senses and Lymphatic system.
			<b>CO3</b> -Enlist the composition, functions of blood & describe the process of hemopoiesis, haemoglobin formation and blood coagulation.
			<b>CO4</b> - Express the regulation of cardiac cycle, blood pressure, ECG.
4.	Pharmaceutics-I	BP103T	<b>CO1</b> -Understand the historical background of the profession of pharmacy.
			<b>CO2</b> -Explain the professional way of handling the prescription.
			<b>CO3</b> -Understand the posology & pharmaceutical calculations.
			<b>CO4</b> - Explain the different types of dosage forms.
			<b>CO5</b> -Understand the manufacturing process of different dosage forms.
5.	Communication Skills	BP105T	<b>CO1</b> -Recognize verbs and passive voice in communication.
			<b>CO2</b> -Expertise in skills to confidently stand in group discussion.
			<b>CO3</b> - Confidence to communicate effectively.
			<b>CO4</b> - Recognize the importance of ethics, human values, honesty and integrity.
			<b>CO5</b> - Understand Ethical practice in pharmaceutical profession.
6.	Pharmaceutical Inorganic Chemistry lab-I		CO1- Identify impurities present in inorganic medicinal compounds by standard pharmacopoeia test



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			<b>CO2</b> - Identify inorganic compound by qualitative analysis. <b>CO3</b> - Analyze purity of inorganic pharmaceuticals <b>CO4</b> -Understand preparation of inorganic pharmaceuticals.
7.	Human Anatomy and Physiology -I	BP107P	<b>CO1</b> - Handle the instruments used in laboratory <b>CO2</b> -Describes the body tissues based on the structure and organization cells. <b>CO3</b> -Identify the positions of human bone the skeleton with their importance <b>CO4</b> -Calculate RBCs sedimentation rate, RBC count, WBC hemoglobin count, bleeding and clotting time by using different methods <b>CO5</b> -Record pulse rate, heart rate & blood pressure
8.	Pharmaceutical Analysis lab-I	BP108P	<b>CO1</b> -Prepare solutions of specific Normality and Molarity. <b>CO2</b> - Standardize solutions with respect to Normality and Molarity. <b>CO3</b> - Analyze the purity of pharmaceutical compounds using assay procedures. <b>CO4</b> - Determine Normality by Electro-analytical method.
8.	Pharmaceutics Lab-I	BP 109 P	<b>CO1</b> -Formulate monophasic liquids like syrup, elixir, linctus and solution <b>CO2</b> - Understand the method of preparation for biphasic liquids like suspensions and emulsions <b>CO3</b> - Prepare powders and granules <b>CO4</b> - Understand the method of manufacturing for suppositories and semisolid dosage forms <b>CO5</b> - Formulate mouthwashes and gargles



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**YEAR- SECOND YEAR B. PHARMACY**

**(TERM-I) SEMESTER-III**

**PCI SYLLABUS**

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Physical Pharmaceutics-I	BP302T	<b>CO1-</b> Understand the concept of Solubility, Dissolution & Distribution Phenomenon influencing drug release & action. <b>CO2-</b> Recall the states of matter and estimate the physicochemical properties of drugs affecting quality of drug product. <b>CO3-</b> Illustrate the concept of surface and interfacial tension in biphasic system. <b>CO4-</b> Apply the pharmaceutical knowledge of Drug Complexation & Protein binding. <b>CO5-</b> Demonstrate concept of pH & application of buffers in the formulation of dosage forms.
2.	Pharmaceutical organic chemistry-II	BP301T	<b>CO1-</b> Describe general methods of preparation of organic compounds. <b>CO2-</b> Understand the stability and reactions of organic compounds. <b>CO3-</b> Understand the chemistry, chemical reactions and analytical constants of fats and oils. <b>CO4-</b> Emphasize mechanisms of chemical reactions. <b>CO5-</b> Explain the structure and uses of organic compounds.
3.	Pharmaceutical engineering	BP304T	<b>CO1-</b> Illustrate the mechanics of fluid, fluid flow & its measurement in accordance with statics & movement of fluids. <b>CO2-</b> Apply basic principles including description of equipment & accessories involved in unit operations of size reduction, size separation, evaporation & distillation <b>CO3-</b> Understand the operations involved in heat measuring devices, heat interchangers & heat exchangers. <b>CO4-</b> Explain objective, application, principles, construction, working, uses, merits & demerits of instruments involved in drying, mixing, filtration & centrifugation.



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			<b>CO5</b> -Discuss the materials of pharmaceutical plant construction, corrosion & its prevention & also basics of material handling system with respect to pharmaceutical industry.
4.	Pharmaceutical microbiology	BP303T	<b>CO1</b> - Understand the methods of identification, cultivation & preservation of various microorganisms.
			<b>CO2</b> - Explain the different staining techniques and biochemical tests.
			<b>CO3</b> -Understand the morphology, classification & reproduction of fungi and viruses.
			<b>CO4</b> -Explain the process of microbiological assay.
			<b>CO5</b> -Understand the types of microbial spoilage & animal cell culture techniques.
5	Physical Pharmaceutics lab-I	BP306P	<b>CO1</b> -Estimate Solubility and Distribution Phenomenon of drug.
			<b>CO2</b> -Illustrate Surface & interfacial phenomenon including adsorption in stability of biphasic dosage form.
			<b>CO3</b> -Apply the Concept of Hydrophilic Lipophilic Balance & Critical Micellar Concentration in practical Aspects.
			<b>CO4</b> -Analyze the complex formation by solubility & pH titration method.
6	Pharmaceutical organic chemistry lab-II	BP305P	<b>CO1</b> -Determine analytical constants of fats and oils
			<b>CO2</b> -Carry out preparation of organic compound and purify by recrystallization, steam distillation
			<b>CO3</b> - Explain principle, mechanism and procedure of synthesis of given organic compound
			<b>CO4</b> - Calculate theoretical yield, practical yield and percentage yield.
7	Pharmaceutical microbiology lab	BP307P	<b>CO1</b> - To demonstrate the use of various equipment's and their processing used in experimental microbiology.
			<b>CO2</b> - To describe the process of sterilization and sub culturing.
			<b>CO3</b> - To illustrate different staining techniques and motility determination by hang drop method.
			<b>CO4</b> -To prepare media, nutritional stabs & slants and pure culture of micro-organisms.



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			<b>CO5-</b> To perform sterility and biochemical test, microbiological assay and Bacteriological analysis.
8.	Pharmaceutical engineering lab	BP308P	<b>CO1-</b> Determine radiation constant, heat transfer coefficient, moisture content, loss of drying & humidity of air.
			<b>CO2-</b> Calculate efficiency of steam distillation & uniformity of index.
			<b>CO3-</b> Construct drying curves & study the effect of time on the rate of crystallization.
			<b>CO4-</b> Evaluate size distribution & verify the laws of size reduction by determining various parameters related to Ball mill.
			<b>CO5-</b> Demonstrate major equipment's used in pharmaceutical industry.
			<b>CO6-</b> Discuss construction working & applications of pharmaceutical machinery & factors affecting rate of filtration & evaporation.

**YEAR- THIRD YEAR B. PHARMACY**

**(TERM-I) SEMESTER-V**

**PCI SYLLABUS**

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Medicinal Chemistry- II	BP501T	<b>CO1-</b> Understand the chemistry of drugs with respect to their pharmacological activity. <b>CO2-</b> Understand the drug metabolic pathways, adverse effect and therapeutic value of drugs. <b>CO3-</b> Know the Structural Activity Relationship of different class of drugs. <b>CO4-</b> Study the chemical synthesis of selected drugs
2.	Industrial Pharmacy-I	BP502T	<b>CO1-</b> Discuss preformulation considerations in the development of solid, liquid oral and parenteral dosage forms and its impact on stability of dosage forms. <b>CO2-</b> Understand the concept of solid oral dosage form design and formulation strategies, processing problems and remedies, evaluation, packaging and storage of tablets and capsules. <b>CO3-</b> Apply the knowledge of sterile technology in designing safe and effective injectables and ophthalmic products.



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			<b>CO4-</b> Understand the formulation and evaluation of liquid orals, pharmaceutical aerosol and cosmetics.
			<b>CO5-</b> Discuss the packaging materials used for packaging of pharmaceutical products along with evaluation and stability aspects
3.	Pharmacology II	BP503T	<b>CO1-</b> Understand the mechanism of drug action and its relevance in the treatment of different diseases. <b>CO2-</b> Demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments <b>CO3-</b> Demonstrate the various receptor actions using isolated tissue preparation <b>CO4-</b> Appreciate correlation of pharmacology with related medical science
4.	Pharmacognosy II	BP504T	<b>CO1-</b> To understand the basic metabolic pathways and production of secondary metabolites along with utilization of radioactive isotopes. <b>CO2-</b> To study and understand the composition, chemistry, biosources, therapeutic uses and commercial applications of secondary metabolites. <b>CO3-</b> Explain the isolation, identification and analysis of certain phytoconstituents. <b>CO4-</b> Explain the industrial production, estimation and utilization of phytoconstituents.
5.	Pharmaceutical Jurisprudence	BP505T	<b>CO1-</b> Understood the history behind the development of pharmaceutical legislation in India. <b>CO2-</b> Present the concepts and formulae for the pricing of drugs & pharmaceuticals. <b>CO3-</b> Summarize offences & penalties concerned with laws for drugs and pharmaceuticals. <b>CO4-</b> Write the insights of Drug Regulatory Affairs.
6.	Industrial Pharmacy-I Practical	BP506P	<b>CO1-</b> Perform preformulation study of active pharmaceutical ingredient. <b>CO2-</b> Formulate tablets, Capsules, Parenteral, ophthalmic products and cosmetics. <b>CO3-</b> Evaluate tablets, capsules and packaging material for their quality. <b>CO4-</b> Identify categories or uses of ingredients Used in manufacturing of tablets, capsules, parenteral, ophthalmic products and cosmetics. <b>CO5-</b> Construct experiments as per good



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			laboratory practices and record in the journals
7.	Pharmacology- II Practical	BP507P	<b>C01-</b> Understand basic concept of bioassay methods.
			<b>C02-</b> Determine concentration of acetylcholine & atropine by bioassay methods.
			<b>C03-</b> Demonstrate effects of drugs acting on central nervous system through different models.
			<b>C04-</b> Compare methods of toxicity studies with respect to OECD guidelines
8.	Pharmacognosy- II Practical	BP508P	<b>C01-</b> To identify Crude drugs based on morphological, histological and microscopic powder evaluation.
			<b>C02-</b> To ascertain genuinity of the powdered crude drug formulation based on microscopical characteristics of crude drug powder.
			<b>C03-</b> To carry out extraction and distillation methods of extraction.
			<b>C04-</b> To perform TLC analysis for active constituents and understand isolation/separation of constituents.
			<b>C05-</b> To carry out analysis of drug by chemical tests.





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<b>YEAR- FINAL YEAR B. PHARMACY</b>
<b>(TERM-I) SEMESTER-VII</b>
<b>CBCS SYLLABUS</b>

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Pharmaceutical Chemistry-II	BPH_C_701_T	<b>CO1</b> -Recognize Chemical Class of drugs depending upon chemical, target based and therapeutic classification of drugs belonging to from cancer therapy, antiviral agents, CVS diseases and disorder and Diabetic therapy.
			<b>CO2</b> -Draw structure and allocate Chemical nomenclature along with stereochemistry of structures of the drug from cancer therapy, antiviral agents, CVS diseases and disorder and Diabetic therapy.
			<b>CO3</b> -Correlate Structural activity relationship of the drug from cancer therapy, antiviral agents, CVS diseases and disorder and Diabetic therapy.
			<b>CO4</b> - Illustrate mechanism of action of the drug from cancer therapy, antiviral agents, CVS diseases and disorder and Diabetic therapy.
			<b>CO5</b> - Describe synthesis with help of reactions involved for selected drugs in from cancer therapy, antiviral agents, CVS diseases and disorder and Diabetic therapy.
			<b>CO6</b> -Predict different metabolite of selected drug and its correlation to MAO from cancer therapy, antiviral agents, CVS diseases and disorder and Diabetic therapy.
2.	Pharmaceutical analysis-III	BPH_C_703_T	<b>CO1</b> -Describe the concepts of terminology related to chromatographic techniques like HPLC/HPTLC/TLC/Ion Exchange/size Exclusion/Paper chromatography.
			<b>CO2</b> -Discuss in detail instrumentation and application of chromatography and spectroscopy methods in pharmaceutical industry.
			<b>CO3</b> - Adopt the analytical validation methods.



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			<b>CO4</b> -Understand the structural elucidation in the spectroscopy techniques.
			<b>CO5</b> -Illustrate the sampling procedure and results for the chromatography and spectroscopy techniques.
3.	Preformulation studies	BPH_E_711_T	<b>CO1</b> -Explain physicochemical principles relevant to pharmaceutical dosage
			<b>CO2</b> -Comprehend the importance of solubility, stability and compatibility of drug substances with different excipients
			<b>CO3</b> -Understand the role of pre formulation studies in drug discovery, drug and product development.
4.	Pharmacognosy-III	BPH_C_702_T	<b>CO1</b> -Understand the source, composition, general methods of extraction, evaluation, chemical tests, therapeutic uses of crude drugs containing steroidal, triterpenoidal, anthraquinone, flavonoidal glycosides, alkaloids and glycoproteins.
			<b>CO2</b> -Describe the biosynthetic pathways of alkaloids obtained from different amino acids and of anthraquinone glycosides.
			<b>CO3</b> -Understand the concept of Ayurveda and Herbal drug technology and regulatory requirements for Ayurvedic, Siddha, Unani (ASU) Medicines and Phytopharmaceuticals.
			<b>CO4</b> -Apply the concept of formulation, herbal drug standardization and relate the knowledge of drug and food interactions with the drugs obtained from natural origin.
			<b>CO5</b> -Apply the knowledge of extraction, quantitative, chromatographic & spectroscopic analysis for the characterization to herbal phytochemicals.
5.	Pharmacology-III	BPH_C_704_T	<b>CO1</b> -Categorize local anaesthetic, General anaesthetic, sedatives & hypnotics.
			<b>CO2</b> -Elaborate pharmacology of anti-epileptic & antiparkinsonian drugs.



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			<b>CO3-</b> Classify & explain drugs for psychosis, depression, mania, opioid analgesics & CNS stimulants. <b>CO4-</b> Correlate autacoids like histamine, serotonin, Eicosanoids, NSAID & drugs related to it. <b>CO5-</b> Classify & explain pharmacology of drugs related to peptic ulcer, antiemetics, laxative, purgatives & ORS Solution.
6.	Pharmaceutical Jurisprudence	BPH_C_705_T	<b>CO1-</b> Understood the history behind the development of pharmaceutical legislation in India. <b>CO2-</b> Present the concepts and formulae for the pricing of drugs & pharmaceuticals. <b>CO3-</b> Summarize offences & penalties concerned with laws for drugs and pharmaceuticals. <b>CO4-</b> Write the insights of Drug Regulatory Affairs.
7.	Pharmaceutical Analysis-III lab		<b>CO1:</b> Estimate pka of benzoic acid. <b>CO2:</b> Determine the validation parameters by UV spectroscopy <b>CO3:</b> Perform the Assay of Pharmaceutical formulations using instrumental techniques like UV Spectroscopy <b>CO4:</b> Analyze the caffeine and sodium benzoate injection by simultaneous equation method and absorbance ratio method. <b>CO5:</b> Demonstrate Qualitative analysis of sample by Column chromatography/IR/ HPLC/ HPTLC/TLC/ GC techniques
8.	Pharmacognosy Lab-III		<b>CO1:</b> Distinguish the Crude drugs based on morphological characters. <b>CO2:</b> Identify Crude drugs based on morphological, microscopical section evaluation. <b>CO3:</b> Authenticate powdered crude drugs based on microscopical characteristics. <b>CO4:</b> Analyze herbal drugs for presence of phytochemicals using phytochemical tests. <b>CO5:</b> Compare extraction methods and TLC analysis for phytoconstituents.