



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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Email: ybpharmacy@gmail.com

Mr. Achyut K. Sawantbhonsale
Executive Chairman

Dr. Vijay A. Jagtap
Principal

COURSE OUTCOMES
ACADEMIC YEAR-2020-2021

YEAR- FIRST YEAR B. PHARMACY
(TERM-I) SEMESTER-I
PCI SYLLABUS

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



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3.	Human Anatomy and Physiology -I	BP101T	CO1 -Define the anatomy & physiology of cells, various tissues, organs, and systems with basic terminologies.
			CO2 -Illustrate the structure and underline function of Integumentary system, skeletal system, joints, Cardiovascular system, Peripheral nervous system, Special senses and Lymphatic system.
			CO3 -Enlist the composition, functions of blood & describe the process of hemopoiesis, haemoglobin formation and blood coagulation.
			CO4 - Express the regulation of cardiac cycle, blood pressure, ECG.
4.	Pharmaceutics-I	BP103T	CO1 -Understand the historical background of the profession of pharmacy.
			CO2 -Explain the professional way of handling the prescription.
			CO3 -Understand the posology & pharmaceutical calculations.
			CO4 - Explain the different types of dosage forms.
			CO5 -Understand the manufacturing process of different dosage forms.
5.	Communication Skills	BP105T	CO1 -Recognize verbs and passive voice in communication.
			CO2 -Expertise in skills to confidently stand in group discussion.
			CO3 - Confidence to communicate effectively.
			CO4 - Recognize the importance of ethics, human values, honesty and integrity.
			CO5 - 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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			CO2 - Identify inorganic compound by qualitative analysis.
			CO3- Analyse purity of inorganic pharmaceuticals
			CO4-Understand preparation of inorganic pharmaceuticals.
7.	Human Anatomy and Physiology -I	BP107P	CO1- Handle the instruments used in laboratory
			CO2-Describes the body tissues based on the structure and organisation cells.
			CO3-Identify the positions of human bone the skeleton with their importance
			CO4-Calculate RBCs sedimentation rate, RBC count, WBC hemoglobin count, bleeding and clotting time by using different methods
			CO5-Record pulse rate, heart rate & blood pressure
8.	Pharmaceutical Analysis lab-I	BP108P	CO1-Prepare solutions of specific Normality and Molarity.
			CO2- Standardize solutions with respect to Normality and Molarity.
			CO3- Analyse the purity of pharmaceutical compounds using assay procedures.
			CO4- Determine Normality by Electro-analytical method.
8.	Pharmaceutics Lab-I	BP 109 P	CO1-To formulate monophasic liquids like syrup, elixir, linctus and solution
			CO2 - To understand the method of preparation for biphasic liquids like suspensions and emulsions
			CO3 - To prepare powders and granules
			CO4 - To understand the method of manufacturing for suppositories and semisolid dosage forms
			CO5 - To formulate mouthwashes and gargles

YEAR- FIRST YEAR B. PHARMACY

(TERM-II) SEMESTER-II

PCI SYLLABUS



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SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Pharmaceutical organic chemistry-I	BP_202_T	CO1 -Assign IUPAC and stereochemical nomenclature of compounds containing multiple functional groups.
			CO2 -Understand stability, reactions, hybridization of Alkanes, Alkenes and Conjugated dienes.
			CO3 -Explain method of preparation, reactions, reactivity, structure and uses of alkyl halide and alcohol compounds.
			CO4 -Interpret method of preparation, reactions, structures and uses of carbonyl compounds.
			CO5 -Describe method of preparation, reactions, structure, uses, acidity of carboxylic acids.
2.	Human Anatomy and Physiology II	BP201T	CO1- Recall organization of nervous system with structure & functions of central nervous system
			CO2- Identify the role of different GIT secretions & nervous system in anatomy & physiology of digestive system
			CO3- Outline mechanism of respiration & urine formation through respiratory & urinary system
			CO4-Correlate endocrine glands & their hormonal secretions in maintenance of homeostasis
			CO5- Compare male & female reproductive system anatomy & physiology
			CO6- Understand role of genetics in human body
3.	Biochemistry	BP203T	CO1 - Identify the commonly occurring carbohydrates, amino acids and fatty acids.
			CO2 -Understand order and structure of oligo-saccharides, poly- saccharides/ peptides and membrane lipids.
			CO3 -Recall the classification of vitamins and the biochemical role involved in their deficiency disorder.



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			CO4- Review the biological oxidation, bioenergetics, electron transport chain. CO5- Understand the process of digestion, absorption, storage and retrieval of cellular nutrients.
4.	Pathophysiology	BP204T	CO1- To understand the basic principles of cell injury and adaptations. CO2-To learn the detailed mechanism involved in the process of inflammation and repair. CO3-To explain the diseases related to cardiovascular, respiratory, renal, endocrine, nervous & gastrointestinal system. CO4-To explain the hematological diseases, inflammatory bowel diseases, alcoholic liver diseases, diseases of bones and joints, infectious diseases & sexually transmitted diseases. CO5-To understand in detail the basic principles of cancer.
5.	Pharmaceutical organic chemistry lab-I	BP208P	CO1-Explain the structure, name and the type of isomerism of the organic compound. CO2- Understand the reaction, name the reaction and orientation of reactions CO3-Account for reactivity/stability of compounds. CO4-Identify & confirm the identification of organic compound.
6.	Human Anatomy and Physiology lab II	BP207P	CO1-Identify the gross morphology, structure and functions of various organs of the human body. CO2-Identify the various tissues and organs of different systems of human body. CO3-Appreciate coordinated working pattern of different organs of each system. CO4-Appreciate the interlinked mechanisms in the maintenance of normal functioning of human body



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7.	Biochemistry lab	BP209P	CO1-Perform identification test for proteins, carbohydrates and reducing sugars
			CO2-Determine the unknown samples for the presence of blood creatinine, blood Sugar, serum total cholesterol
			CO3-Study the effect of temperature and effect of receptors on salivary amylase activity and determine its activity
			CO4-Perform qualitative analysis on urine for its abnormal constituents, proteins and reducing sugars.
8.	Environmental sciences	BP206T	CO1-Create awareness about environmental problems among learners.
			CO2-Impart basic knowledge about the environment and its allied problems.
			CO3-Develop an attitude of concern for the environment.
			CO4-Motivate learner to participate in environment protection and environment improvement.
			CO5-Strive to attain harmony in nature

YEAR- SECOND YEAR B. PHARMACY

(TERM-I) SEMESTER-III

PCI SYLLABUS

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Physical Pharmaceutics-I	BP302T	CO1-Understand the concept of Solubility, Dissolution & Distribution Phenomenon influencing drug release & action.
			CO2- Recall the states of matter and estimate the physicochemical properties of drugs affecting quality of drug product.
			CO3- Illustrate the concept of surface and interfacial tension in biphasic system.
			CO4- Apply the pharmaceutical knowledge of Drug Complexation & Protein binding.
			CO5-Demonstrate concept of pH & application of buffers in the formulation of dosage forms.



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2.	Pharmaceutical organic chemistry-II	BP301T	CO1- Describe general methods of preparation of organic compounds.
			CO2- Understand the stability and reactions of organic compounds.
			CO3- Understand the chemistry, chemical reactions and analytical constants of fats and oils.
			CO4- Emphasize mechanisms of chemical reactions.
			CO5- Explain the structure and uses of organic compounds.
3.	Pharmaceutical engineering	BP304T	CO1- Illustrate the mechanics of fluid, fluid flow & its measurement in accordance with statics & movement of fluids.
			CO2- Apply basic principles including description of equipment & accessories involved in unit operations of size reduction, size separation, evaporation & distillation
			CO3- Understand the operations involved in heat measuring devices, heat interchangers & heat exchangers.
			CO4- Explain objective, application, principles, construction, working, uses, merits & demerits of instruments involved in drying, mixing, filtration & centrifugation.
			CO5- 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	CO1- Understand the methods of identification, cultivation & preservation of various microorganisms.
			CO2- Explain the different staining techniques and biochemical tests.
			CO3- Understand the morphology, classification & reproduction of fungi and viruses.
			CO4- Explain the process of microbiological assay.
			CO5- Understand the types of microbial spoilage & animal cell culture techniques.



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5	Physical Pharmaceutics lab-I	BP306P	CO1-Estimate Solubility and Distribution Phenomenon of drug.
			CO2-Illustrate Surface & interfacial phenomenon including adsorption in stability of biphasic dosage form.
			CO3-Apply the Concept of Hydrophilic Lipophilic Balance & Critical Micellar Concentration in practical Aspects.
			CO4-Analyze the complex formation by solubility & pH titration method.
6	Pharmaceutical organic chemistry lab-II	BP305P	CO1- Determine analytical constants of fats and oils
			CO2- Carry out preparation of organic compound and purify by recrystallization, steam distillation
			CO3- Explain principle, mechanism and procedure of synthesis of given organic compound
			CO4- Calculate theoretical yield, practical yield and percentage yield.
7	Pharmaceutical microbiology lab	BP307P	CO1- To demonstrate the use of various equipment's and their processing used in experimental microbiology.
			CO2- To describe the process of sterilization and sub culturing.
			CO3- To illustrate different staining techniques and motility determination by hang drop method.
			CO4-To prepare media, nutritional stabs & slants and pure culture of micro-organisms.
			CO5-To perform sterility and biochemical test, microbiological assay and Bacteriological analysis.
8.	Pharmaceutical engineering lab	BP308P	CO1-Determine radiation constant, heat transfer coefficient, moisture content, loss of drying & humidity of air.
			CO2-Calculate efficiency of steam distillation & uniformity of index.
			CO3-Construct drying curves & study the effect of time on the rate of crystallization.



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			CO4-Evaluate size distribution & verify the laws of size reduction by determining various parameters related to Ball mill.
			CO5-Demonstrate major equipment's used in pharmaceutical industry.
			CO6-Discuss construction working & applications of pharmaceutical machinery & factors affecting rate of filtration & evaporation.

YEAR- SECOND YEAR B. PHARMACY

(TERM-II) SEMESTER-IV

PCI SYLLABUS

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Medicinal Chemistry I	BP402T	CO1 -Understand the chemistry of drugs with respect to their pharmacological activity. CO2 -Understand the drug metabolic pathways, adverse effect and therapeutic value of drugs. CO3 -Know the Structural Activity Relationship (SAR) of different class of drugs. CO4 - Write the chemical synthesis of some drug. CO5 - Describe MoA, synthesis, resistance, metabolism of drug.
2.	Physical Pharmaceutics-II	BP403T	CO1 - Understand types & properties of colloidal dispersion. CO2 - Illustrate Flow properties of liquids with respect to newton's law. CO3 - Summarize principle behind preparation of stable coarse dispersion with respect to Emulsion & Suspension. CO4 - Discuss Micromeritics concept with respect to fundamental & derived properties of powders. CO5 - Apply principles of chemical kinetics to ascertain stability of pharmaceuticals.



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3.	Pharmacology -I	BP404T	CO1- Understand drug, pharmacology, pharmacokinetics, pharmacokinetics and routes of drug administration.
			CO2- Explain Pharmacodynamics- Principles and mechanisms of drug action through G-protein couples, ion channel, enzyme linked, JAK STAT and nuclear receptors.
			CO3- Illustrate classification, pharmacology & therapeutic uses of Pharmacology of drugs acting on peripheral nervous system e.g. Sympathomimetics, Para sympathomimetics, Sympatholytic, Para-sympatholytic, Neuromuscular blocking agents and skeletal muscle relaxants (peripheral), local anaesthetics.
			CO4- Extend pharmacology of drugs acting on central nervous system & their uses in CNS disorders e.g., general anaesthetics, sedative hypnotics, antiepileptic, Alcohol etc.
			CO5- Summarize the pharmacology of drugs acting on central nervous system & their uses in CNS disorders e.g. psychosis, mental illness, Parkinson's disease and Alzheimer's disease, CNS stimulants.
4.	Pharmaceutical Organic Chemistry-III	BP401T	CO1- Understand the methods of preparation and properties of organic compounds.
			CO2- Explain the stereo chemical aspects of organic compounds and stereo chemical reactions.
			CO3- Know the medicinal uses and other applications of organic compounds.
5.	Pharmacognosy and Phytochemistry-I	BP405T	CO1- Give an insight to the introduction to pharmacognosy and classification of crude drugs.
			CO2- Evaluate the quality control parameters of drugs obtained from natural origin.
			CO3- Explain the aspects of cultivation and factors affecting cultivation of medical plants.
			CO4- Illustrate the methods and applications of Plant Tissue Culture.



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			CO5 -Understand the pharmacognosy in different systems of medicine and secondary metabolites. CO6 -Cite the examples and significance of plant products, secondary metabolites and marine drugs.
6.	Physical Pharmaceutics Lab-II	BP407P	CO1 - Estimate particle size, Particle size distribution & Flow rate of powder by using micromeritics principles. CO2 - Analyse flow properties of liquid by rheological measurements. CO3 -Evaluate properties of coarse dispersion using various parameters. CO4 - Analyse the drug stability by applying principles of chemical kinetics.
7.	Medicinal Chemistry Lab-I	BP406P	CO1 -Synthesize drugs CO2 -Carry out assay of drugs CO3 -Determine partition coefficient of drug
8.	Pharmacology lab-I	BP408P	CO1-Understand the pharmacological actions of different categories of drugs CO2-Explain the mechanism of drug action at organ system/sub cellular/ macromolecular levels. CO3-Apply the basic pharmacological knowledge in the prevention and treatment of various diseases. CO4-Observe the effect of drugs on animals by simulated experiments CO5-Appreciate correlation of pharmacology with other bio medical sciences
9.	Pharmacognosy and Phytochemistry lab-I	BP408P	CO1-Introduce the students to carry out chemical evaluation of natural drugs used in complimentary system of medicine CO2-Highlights the microscopic qualitative and quantitative evaluation of powdered crude drugs of natural origin. CO3-Understand principles involved and carry out physical evaluation of natural crude drug powders.



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YEAR- THIRD YEAR B. PHARMACY
(TERM-I) SEMESTER-V
CBCS SYLLABUS

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Organic chemistry-III	BPH_C_501_T	CO1- Name the basic heterocyclic rings of 5 membered and 6 membered.
			CO2- Understand the synthesis mechanism for 5 membered and 6 membered rings.
			CO3- Compare the basicity and write the resonance structures of the 5 membered and 6 membered rings.
			CO4- Understand the stereochemistry of steroids.
			CO5- Understand the stereochemistry of peptides and polymers.
2.	Pharmaceutics-II	BPH_C_502_T	CO1- Understand physicochemical principles of disperse system.
			CO2- Describe theoretical aspects of suspension, emulsion, semi-solids, suppositories, pharmaceutical aerosol and cosmetics including their formulation.
			CO3- Categorize advantages, disadvantages, desirable features and pharmaceutical applications of suspension, emulsion, semisolids, suppositories and pharmaceutical aerosols with definition.
			CO4- Elaborate large scale manufacturing and packaging of suspension, emulsion, semi-solids, suppositories and pharmaceutical aerosol including their evaluation
			CO5- State raw materials, formulation and evaluation (including BIS) of cosmetic products.
			CO6- Understand regulatory aspects, microbiological aspects and toxicology of cosmetics.
3.	Pharmaceutical Biotechnology	BPH_C_503_T	CO1- Discuss basics of modern Biotechnology and its scope.
			CO2- Discuss about the tools, techniques, ethics and environmental safety involved in



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			gene cloning, and the applications of Recombinant DNA technology.
			C03- Remember different tools of molecular biotechnology.
			C04- Explain different techniques and applications of microbiological assays, enzyme immobilization and cell culture.
			C05- Discuss about basics concepts of fermentation technology and immunology.
			C06- Elaborate on concepts used for production of vaccines, antibiotics and monoclonal antibodies for treating the human disease.
4.	Pharmacology-II	BPH_C_504_T	C01- Differentiate mechanism of action, kinetics, ADR & uses for different antimicrobial agents like sulphonamide's, quinolones, penicillin's, tetracycline, aminoglycosides, chloramphenicol.
			C02- Classify anti TB, Antileprotic, antifungal, anticancer & antiviral drugs.
			C03- Classify & explain drugs used in malaria, amoebiasis, helminthiasis.
			C04- Recall the drugs act as immunomodulators/immuno-suppressor along with its mechanism of action.
			C05- Recall drugs for different endocrine related disorders.
			C06- Explain pharmacology of drugs for anaemia, coagulants, anticoagulants, thrombolytic & antiplatelet drugs.
5.	Cosmeticology	BPH_E_512_T	C01- Understand the physiological, regulatory and marketing aspects of cosmetics.
			C02- Describe the toxicological aspects and toxicity testing protocol for cosmetics.
			C03- Explain the requirements for large scale manufacturing of various cosmetics products along with its functional and physicochemical evaluation.
			C04- Describe the regulatory guidelines and sensorial assessment for cosmetics.



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6.	Packaging of Pharmaceutical	BPH_E_513_T	CO1 -Classify Packaging materials and explain the functions and design aspects.
			CO2 -Discuss the different primary and ancillary packaging materials, their functions and evaluation.
			CO3 -Elaborate on labelling aspects of pharmaceuticals.
			CO4 -Discuss sterilization and stability of packaging materials.
7.	Organic chemistry lab-III	BPH_C_505_L	CO1- Separation of simple compound mixtures.
			CO2-Identify organic compounds based on simple tests
			CO3-Recrystallize compounds use single solvent and binary solvent mixtures.
8.	Pharmaceutics lab-II	BPH_C_506_L	CO1-Understand the formulation aspects of biphasic, semisolid dosage forms, suppository and cosmetic products.
			CO2 - Illustrate calculations involved in formulations.
			CO3- Apply the importance of quality evaluation of biphasic liquid dosage forms, semisolids, suppositories, aerosols and cosmetic products.
			CO4- Identify categories or uses of ingredients used in manufacturing of biphasic, semisolid dosage forms, suppository and cosmetic products.
9.	Experimental techniques in microbiology and biotechnology lab	BPH_C_507_L	CO1- Recall the principle of common laboratory equipment along with concept of sterilization
			CO2-Develop pure cultures along with its characterization
			CO3-Identify different bacteria using various staining techniques (morphological study) and characterization of same
			CO4-Analyze quality of raw material, and water and assessment of extent of microbial contamination using counting technique



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Executive Chairman

Dr. Vijay A. Jagtap
Principal

YEAR- THIRD YEAR B. PHARMACY
(TERM-II) SEMESTER-VI
CBCS SYLLABUS

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Pharmaceutics -III	BPH_C_602_T	CO1 -Able to categorize advantages, disadvantages, desirable features, types and pre-formulation aspects of tablets and capsules with definition.
			CO2 - Illustrate the concepts of solid oral dosage form design & formulation strategies including selection of excipients, methods, layout of manufacturing area, processing problems, defects & remedies in tablets and capsules.
			CO3 - Discuss large scale manufacturing equipment's, evaluation of tablets and capsules as per official standards, packaging and labelling.
			CO4 -Describe stability studies and introduction to ICH guidelines.
			CO5 -Understand the concept of responsibilities of quality assurance & quality control departments.
			CO6 -Interpret the importance and study of documentation.
2.	Pharmacognosy II	BPH_C_604_T	CO1 -Describe the concept of evaluation of crude drugs, principles and methods of extraction of Phyto-constituents.
			CO2 -Relate the source, composition, chemistry, extraction methods, evaluation, chemical tests, therapeutic uses, biosynthetic pathways of crude drugs containing Volatile oil.
			CO3 -Discuss the classification, occurrence, composition, extraction, preparation, uses, tests of Resins and Tannins.
			CO4 -Recall the source chemistry and therapeutic uses of Iridoids, Quinones, Sesquiterpenes, Diterpenes, Tetraterpenoids and Organo-sulphur compounds.



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			CO5 -Illustrate the methods and applications of Plant Tissue Culture.
			CO6 -Cite the examples and significance of Excipients of natural origin.
3.	Pharmaceutical Chemistry- I	BPH_C_601_T	CO1 - Identify and study the suitable drug targets for treatment of disorders.
			CO2 -Identify the relationship between the physicochemical properties of the chemical entity and biological response.
			CO3 - Draw a schematic metabolic pathway for any given drug.
			CO4 -Identify the SAR of all the classes of antimalarial, antitubercular, anti-infective, antibiotic, anti-parasitic disorders.
4.	Pharmaceutical Analysis- II	BPH_C_603_T	CO1 - Understand the Principle, instrumentation, application and limitations in instrumental techniques involving molecular as well as atomic absorption and emission techniques.
			CO2 -Explain the basic concepts, working, principle and applications of X-ray diffraction technique, potentiometric titrations and thermal methods of analysis like TG, DSC and DTA.
			CO3 -Explain the concepts and quality control aspects related to radiopharmaceuticals.
			CO4 -Calculate and interpret the results for spectral analysis and statistical data analysis.
5.	Pharmaceutical Excipients	BPH_E_613_T	CO1 - Define, classify and elaborate on regulatory aspects of pharmaceutical excipients.
			CO2 -Understand the characterization and interactions of excipients with APIs and packaging materials.
			CO3 - Elaborate on common and novel excipients in Pharmaceuticals.
			CO4 - Explain the role of polymers as excipients.
6.	Pharmaceutical Management	BPH_E_608_T	CO1 -Explain components of Company's financial statements and interpret.
			CO2 -Elaborate importance of marketing in the pharmaceutical industry.
			CO3 -Explain basic principles of management.



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			CO4 -Explain the importance of management in quality control and government regulations.
7.	Pharmaceutical Analysis Lab-II	BPH_C_607_L	CO1: Record the absorbance and calculate concentration of analyte in formulation or as an API by use of A (1%, 1cm), single point and double point standardisation by UV spectrophotometer. CO2: Relate and construct linear regression analysis data for colorimetric assays and operate a colorimeter instrument. CO3: Record and calculate the concentration of an analyte by measure of fluorescence of an analyte in absence and presence of quenching agent. CO4: Operate a Ph meter, measure equivalence point by potentiometric titration, calculate pKa and normality for a given acid or mixture of acids. CO5: Understand the sample preparation technique for FTIR spectroscopy, interpret the IR spectra to identify the functional groups of an analyte , and understand the working of a flame photometer
8.	Pharmaceutics lab -III	BPH_C_606_L	CO1 -Formulate solid dosage forms like tablets and capsule. CO2 -Evaluate excipients, tablets and capsule for their quality. CO3 -Understand the tablet coating process. CO4 -Learn the concepts of accelerated stability testing and shelf life calculations. CO5 -Construct experiments as per Good Laboratory Practices and record in the journals.
9.	Pharmaceutical Chemistry lab- I	BPH_C_605_L	CO1 -Understand the synthesis of drugs. CO2 -Know the difference between conventional synthesis and green chemistry approach. CO3 - To know the medicinal uses and applications of drugs synthesized.



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YEAR- FINAL YEAR B. PHARMACY
(TERM-I) SEMESTER-VII
CBCS SYLLABUS

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Pharmaceutical Chemistry-II	BPH_C_701_T	CO1 -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.
			CO2 -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.
			CO3 -Correlate Structural activity relationship of the drug from cancer therapy, antiviral agents, CVS diseases and disorder and Diabetic therapy.
			CO4 - Illustrate mechanism of action of the drug from cancer therapy, antiviral agents, CVS diseases and disorder and Diabetic therapy.
			CO5 - Describe synthesis with help of reactions involved for selected drugs in from cancer therapy, antiviral agents, CVS diseases and disorder and Diabetic therapy.
			CO6 -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	CO1 -Describe the concepts of terminology related to chromatographic techniques like HPLC/HPTLC/TLC/Ion Exchange/size Exclusion/Paper chromatography.
			CO2 -Discuss in detail instrumentation and application of chromatography and spectroscopy methods in pharmaceutical industry.
			CO3 - Adopt the analytical validation methods.



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			CO4 -Understand the structural elucidation in the spectroscopy techniques.
			CO5 -Illustrate the sampling procedure and results for the chromatography and spectroscopy techniques.
3.	Intellectual property rights	BPH_E_709_T	CO1 -Gain an insight into the types of Intellectual Property rights and its benefits.
			CO2 -Understand the provisions of Patent Act and its International regulations.
			CO3 -Describe the procedures for filing of Intellectual properties.
			CO4 -Explain the grounds of opposition and infringement of Intellectual property rights.
			CO5 -Apply the knowledge of Intellectual property rights in the field of pharmaceutical development.
4.	Pharmacognosy-III	BPH_C_702_T	CO1 -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.
			CO2 -Describe the biosynthetic pathways of alkaloids obtained from different amino acids and of anthraquinone glycosides.
			CO3 -Understand the concept of Ayurveda and Herbal drug technology and regulatory requirements for Ayurvedic, Siddha, Unani (ASU) Medicines and Phytopharmaceuticals.
			CO4 -Apply the concept of formulation, herbal drug standardization and relate the knowledge of drug and food interactions with the drugs obtained from natural origin.
			CO5 -Apply the knowledge of extraction, quantitative, chromatographic & spectroscopic analysis for the characterization to herbal phytochemicals.
5.	Pharmacology-III	BPH_C_704_T	CO1 -Categorize local anaesthetic, General anaesthetic, sedatives & hypnotics.
			CO2 -Elaborate pharmacology of anti-epileptic & antiparkinsonian drugs.



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			CO3- Classify & explain drugs for psychosis, depression, mania, opioid analgesics & CNS stimulants. CO4- Correlate autacoids like histamine, serotonin, Eicosanoids, NSAID & drugs related to it. CO5- Classify & explain pharmacology of drugs related to peptic ulcer, antiemetics, laxative, purgatives & ORS Solution.
6.	Pharmaceutical Jurisprudence	BPH_C_705_T	CO1- Understood the history behind the development of pharmaceutical legislation in India. CO2- Present the concepts and formulae for the pricing of drugs & pharmaceuticals. CO3- Summarize offences & penalties concerned with laws for drugs and pharmaceuticals. CO4- Write the insights of Drug Regulatory Affairs.
7.	Pharmaceutical Analysis-III lab	BPH_C_707_L	CO1: Estimate pka of benzoic acid. CO2: Determine the validation parameters by UV spectroscopy CO3: Perform the Assay of Pharmaceutical formulations using instrumental techniques like UV Spectroscopy CO4: Analyze the caffeine and sodium benzoate injection by simultaneous equation method and absorbance ratio method. CO5: Demonstrate Qualitative analysis of sample by Column chromatography/IR/ HPLC/ HPTLC/TLC/ GC techniques
8.	Pharmacognosy Lab-III	BPH_C_706_L	CO1: Distinguish the Crude drugs based on morphological characters. CO2: Identify Crude drugs based on morphological, microscopical section evaluation. CO3: Authenticate powdered crude drugs based on microscopical characteristics. CO4: Analyze herbal drugs for presence of phytochemicals using phytochemical tests. CO5: Compare extraction methods and TLC analysis for phytoconstituents.



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YEAR- FINAL YEAR B. PHARMACY
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CBCS SYLLABUS

SR.NO	COURSE	COURSE CODE	COURSE OUTCOMES
1.	Pharmaceutical chemistry-III	BPH_C_801_T	CO1 -Draw structure and allocate Chemical nomenclature along with stereochemistry of structures of the drug from CNS, ANS, Analgesics, NSAIDS as stated .
			CO2 -Relate Structural activity relationship of the drug from CNS, ANS, Analgesics, NSAIDS as stated.
			CO3 - Illustrate mechanism of action of the drug from CNS, ANS, Analgesics, NSAIDS and Steroidal agents as stated .
			CO4 -Describe synthesis with help of reactions involved for selected drugs in CNS ,ANS, Analgesics , NSAIDS.
			CO5 -Predict different metabolite of drug and its structure and ultimate effect on drug profile.
			CO6 - Recognize Chemical Class of drugs depending upon chemical, target based and therapeutic classification of drugs belonging to CNS ,ANS, Analgesics , NSAIDS stated in syllabus.
2.	Pharmaceutics-IV	BPH_C_802_T	CO1 -Knowledge of sterile technology in designing safe and effective injectables and ophthalmic products.
			CO2 -Describe the rationale for oral SR/CR products, principle of design, development and evaluation of SR formulations.
			CO3 -Remember the concept of Microencapsulation and NDDS.
			CO4 - Discuss the concept of validation and pilot plant scale up for large scale manufacturing operations.
			CO5 - Describe the concept of biopharmaceutics and significance of various pharmacokinetic operations.
3.	Clinical Pharmacy	BPH_E_807_T	CO1 -Relate the role of pharmacist in different setups like clinics, pharmacies and in the community.



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			CO2 -Identify the crucial role of pharmacists in patient counselling, drug adherence and compliance to therapy. CO3 -Discuss Adverse drug reactions types, monitoring, reporting, drug interactions & therapeutic drug monitoring. CO4 -Discuss the drugs used in Geriatrics, Paediatrics & pregnancy. CO5 - Outline the process of drug discovery and development with related Ethical Guidelines/Schedules, essential documents in clinical trials/research. CO6 -Identify and analyse the trends in drug use to optimize health outcomes through pharmacoepidemiology & Pharmacoeconomics
4.	Novel drug delivery system	BPH_E_811_T	CO1 -Enlist NDDS for different routes such as oral, transdermal, ocular, transmucosal and implantable. CO2 -Explain the need and concepts of targeting and active & passive targeting. CO3 - Elaborate the principles behind the targeting systems for brain, colon, lymphatics and tumours. CO4 -Discuss the methods for preparation, evaluation test of multiarticulate systems for targeting. CO5 - Apply your knowledge for the formulation of NDDS dosage forms
5.	Pharmaceutical chemistry lab-II	BPH_C_803_L	CO1- Design and perform unit operations like weighing , filtration, drying ,reflux etc. CO2-Examine reaction intermediate and final product formation by IR and TLC. CO3- Understand basic principle and reaction mechanism behind organic synthesis. CO4-Apply concept of green chemistry and techniques of waste management CO5-Remove unwanted impurities by recrystallization technique
6.	Pharmaceutics lab-IV	BPH_C_804_L	CO1-Demonstrate the intricacies of formulation and development of parenteral and ophthalmic products. CO2-Perform quality control test for the manufactured products



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			CO3-Prepare documents for the manufacturing process
			CO4-Perform the pharmacopeial tests for these products and their packaging materials.
			CO5-Explain the concept of dissolution testing as an important quality control tool and relate to its importance from regulatory point of view.
			CO6-Apply pharmacokinetic principles of oral routes of administration
			CO7-Demonstrate oral and written communication skills and ability to plan the experimentation with proper time management