



ROFEL SHRI G.M. BILAKHIA COLLEGE OF PHARMACY

APPROVED BY ALL INDIA FOR COUNCIL FOR TECHNICAL EDUCATION (AICTE) AND PHARMACY COUNCIL OF INDIA (PCI)
AFFILIATED TO GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD

Run by Rotary Foundation for Education and Learning (ROFEL) Trust

Estd. In 1999

ROFEL NAMDHA CAMPUS, Vapi-Namdha Road, P.B. No. 11, Vapi (West) - 396191, Dist.- Valsad (Gujarat)
Tel: 9727723722 | 42 | 62; Email: rofelpharm@gmail.com; website: www.rofelpharma.org

COURSE OUTCOME (COs)

BP101TP Human Anatomy and Physiology I	
Code	Course Outcome
CO1	Basic understanding of homeostatic mechanisms, structural organisation of human body systems at cellular and tissue levels
CO2	Knowledge of structure and functions of selected organ systems of human body
CO3	Understanding of coordinated working pattern of organs of selected systems
CO4	Knowledge of various disorders of selected organ systems.
CO5	Ability to perform common haematological tests, measure BP, heart rate, pulse rate, and to identify various type of tissues and common bones
BP102TP Pharmaceutical Analysis-I	
Code	Course Outcome
CO1	Understanding the basic concepts of analytical techniques; Knowledge of limit tests & its application; and errors in pharmaceutical analysis
CO2	Knowledge of principles, theory, methods and applications of various titrimetric methods of analysis.
CO3	Knowledge of principles, theory, methods and applications of gravimetry.
CO4	Knowledge of principles, theory, methods and applications of various electrochemical methods of analysis.
CO5	Ability to carry out assay of various compounds by using various titrimetric and electrochemical methods of analysis.
BP103TP PHARMACEUTICS-I	
Code	Course Outcome
CO1	Basic knowledge of dispensing pharmacy: its history, various dosage forms, prescription handling, posology, pharmaceutical calculations & incompatibilities
CO2	Knowledge and application of pharmaceutical calculations & pharmaceutical incompatibilities in dispensing of conventional dosage forms
CO3	Knowledge on liquid dosage forms: merits & demerits, methods of preparation, aspects of stability and excipients
CO4	Knowledge of powders, suppositories and semisolid dosage forms: merits & demerits, various types, methods of preparation, excipients and evaluation
CO5	Ability to prepare and dispense prescriptions of various liquid formulations, semisolid dosage forms, powder and suppositories.
BP104TP Pharmaceutical inorganic Chemistry	
Code	Course Outcome
CO1	Knowledge of various pharmacopoeias, its history and monographs,
CO2	Knowledge of various impurities in pharmaceutical substance and their limit tests.
CO3	Knowledge of general methods of preparation and assay of various selected inorganic compounds.
CO4	Knowledge of properties and medicinal uses of selected inorganic compounds
CO5	Ability to perform limit test of impurities, test of purity and identification of inorganic substances
BP105TP Communication Skills	
Code	Course Outcome
CO1	Knowledge and understanding of communication process.
CO2	Knowledge and understanding of various communication barriers and perspectives of communication.
CO3	Basic understanding elements of communication and communication system matrix with examples.
CO4	Understanding and to develop skills like active listening and other skills of effective communication such as speech, writing, interview, presentation, discussions.
CO5	To interact effectively with other health workers by improving and doing basic communication, pronunciation and listening skills.



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COURSE OUTCOME (COs)

BP106TP Remedial Biology	
Code	Course Outcome
CO1	Knowledge and basic understanding of living world and its classification.
CO2	Basic knowledge of plant anatomy & physiology.
CO3	Basic knowledge of anatomy and physiological process of human body: Body fluids and circulation; digestion and absorption; breathing and respiration
CO4	Basic knowledge of anatomy and physiological process of human body: Excretory products and their elimination; neural control and coordination; chemical coordination and regulation; reproduction
CO5	Ability to perform microscopical study and identification of plant parts; identify bones, measure BP and tidal volume
BP107TT Remedial Mathematics	
Code	Course Outcome
CO1	Understanding basic formulas to be used for calculations in pharmacy.
CO2	Ability to perform mathematical operations with confidence, speed and accuracy.
CO3	Application of mathematics in pharmacy calculations
CO4	Ability to evaluate raw data and compilation
BP201TP Human Anatomy and Physiology II	
Code	Course Outcome
CO1	Ability to learn about anatomy and physiology of nervous system and digestive system
CO2	Ability to learn about anatomy and physiology of respiratory and urinary system
CO3	Ability to learn about anatomy and physiology of endocrine system
CO4	Ability to learn about anatomy and physiology of reproductive system and genetics
CO5	Ability to perform experiments related to various body systems
BP202TP Pharmaceutical Organic Chemistry I	
Code	Course Outcome
CO1	Knowledge of classification, IUPAC nomenclature of organic compounds and structural Isomerism.
CO2	Knowledge and applications of general reactions, orientation of reactions, reactivity/ stability of organic compounds and analytical constant
CO3	Knowledge and basic understanding of methods of preparation, reactions, physical & chemical properties, tests, uses of organic compounds
CO4	Knowledge and ability to perform synthesis of selected organic compounds
CO5	Ability to perform different qualitative tests for organic compounds
BP203TP Pharmaceutical Engineering	
Code	Course Outcome
CO1	Knowledge of various unit operations and materials handled in pharmaceutical industries
CO2	Knowledge and ability to perform various processes involved in pharmaceutical manufacturing process.
CO3	Knowledge and ability to perform on various machineries used in pharmaceutical manufacturing process.
CO4	Knowledge of various preventive methods used for corrosion control in Pharmaceutical industries
CO5	Ability to perform various unit operations and their optimization
BP204TP Computer Applications in Pharmacy	
Code	Course Outcome
CO1	Basic knowledge of computer number system and information management system.
CO2	Knowledge and ability to work with currently used web technologies and pharmacy drug database.
CO3	Knowledge of various computerised systems in pharmacy & bioinformatics.
CO4	Knowledge of computer data analysis tools in preclinical development.
CO5	Ability to perform applications of databases in pharmacy



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COURSE OUTCOME (COs)

BP205TT ENVIRONMENTAL SCIENCES	
Code	Course Outcome
CO1	To create the awareness and impart knowledge about environment and its systems
CO2	To develop an attitude of concern for the environment
CO3	Motivation to participate in environment protection and environment improvement
CO4	Acquiring skills to help the concerned individuals in identifying and solving environmental problems and strive to attain harmony in nature
BP301TP PHARMACEUTICAL ORGANIC CHEMISTRY-II	
Code	Course Outcome
CO1	Knowledge and ability to write structure, name and the type of isomerism of organic compounds.
CO2	Knowledge and applications of general reactions, orientation of reactions, reactivity/ stability of organic compounds and analytical constant
CO3	Knowledge and basic understanding of basic methods of preparation, reactions, synthesis, physical & chemical properties, tests, uses of organic compounds
CO4	To know chemistry of fats and oils
CO5	Ability to determine oil values and perform synthesis of specified compounds.
BP302TP PHYSICAL PHARMACEUTICS-I	
Code	Course Outcome
CO1	Knowledge about various physical and physicochemical properties in the formulation development.
CO2	Knowledge and applications of basic principles and concepts of solubility
CO3	Knowledge and applications of basic principles and concepts of surface and interfacial phenomena.
CO4	Knowledge and application of basic principles and concepts of complexation, buffers and isotonicity in drug product design.
CO5	Ability to use physicochemical properties in the formulation development and evaluation of dosage forms.
BP303TP BIOCHEMISTRY	
Code	Course Outcome
CO1	Knowledge and understanding of the molecular levels of the chemical process associated with living cells
CO2	Knowledge and understanding of biochemical facts and metabolism of nutrient molecules in physiological and pathological conditions.
CO3	Understanding the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.
CO4	Understanding the genetic organisation of mammalian genome and functions of DNA in the synthesis of RNAs and proteins
CO5	Ability to perform quantitative and qualitative analysis of various nutrient and biochemical substances in biological fluids.
BP304TT PATHOPHYSIOLOGY	
Code	Course Outcome
CO1	Knowledge of relevant aspects of pathology of various conditions with reference to its application and understanding of basic pathophysiological mechanisms
CO2	Understanding and knowledge of etiology and pathogenesis of the selected diseases
CO3	Knowledge and ability to identify signs, symptoms, diagnosis and complications of various selected disease conditions
CO4	Understanding the basic concept and mechanisms of inflammation including chemical mediators involved in it and wound healing.
BP305TP Pharmacognosy and Phytochemistry I	
Code	Course Outcome
CO1	Understanding of techniques in cultivation and production of crude drugs
CO2	Knowledge and skills on various quality control parameter for evaluation of crude drugs
CO3	Understanding of alternative medicinal system and role of secondary plant metabolites
CO4	Knowledge and understanding of primary plant metabolites
CO5	Knowledge and skills to evaluate various crude drug by physical and microscopical techniques.



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COURSE OUTCOME (COs)

BP401TT Pharmaceutical Organic Chemistry III	
Code	Course Outcome
CO1	Understanding the methods of preparation and properties of heterocyclic organic compounds
CO2	Knowledge and understanding of the stereochemical aspects of organic compounds and stereochemical reactions
CO3	Knowledge about the medicinal uses and other applications of heterocyclic organic compounds
CO4	Knowledge and applications about the reactions of synthetic importance
BP402TP MEDICINAL CHEMISTRY - I	
Code	Course Outcome
CO1	Fundamental knowledge of Medicinal Chemistry and its history and development.
CO2	Understanding about the various physicochemical properties of drug molecules its importance in Biological activity.
CO3	Knowledge and applications about drug metabolism and its factors and synthesis of different class of drugs
CO4	Understanding and application about chemistry of drugs with respect to their pharmacological activity and its SAR in drug designing
CO5	Ability to perform synthesis and assay of specified drugs.
BP403TP PHYSICAL PHARMACEUTICS II	
Code	Course Outcome
CO1	Understanding about the properties, stability and applications of dispersed systems.
CO2	Knowledge and skills of applying basic principles of rheology in formulation development.
CO3	Knowledge and skills of applying principles of micromeritics in dosage form development.
CO4	Knowledge about the principles of chemical kinetics & skills to use them for stability testing and determination of expiry date of formulations.
CO5	Ability to use physicochemical properties in formulation development and to carry out evaluation of selected dosage forms.
BP404TP PHARMACOLOGY- I	
Code	Course Outcome
CO1	Basic knowledge of various terms used in pharmacology and understanding of drug pharmacokinetics and its relevance in drug responses
CO2	Knowledge about drug pharmacodynamics and understanding of drug interactions, adverse drug reactions and new drug discovery
CO3	Ability to learn pharmacology of various drugs acting on peripheral nervous system with knowledge of receptors involved in and their role in drug action.
CO4	Pharmacology of various drugs acting on central nervous system with knowledge of receptors involved in and their role in drug action.
CO5	Understanding of various aspects of experimental pharmacology and ability of various selected in-vivo pharmacological studies in animals
BP405TT Pharmaceutical Jurisprudence	
Code	Course Outcome
CO1	Knowledge about Pharmaceutical legislations and their implications in drug development and marketing
CO2	Understanding and implementation of code of Ethics in Pharmacy Practice
CO3	Knowing about regulatory authorities and agencies governing the manufacturing and sale of pharmaceuticals
CO4	Knowledge about various Indian Pharmaceutical Act and Laws including Schedules of drugs and its implications in pharmacy practice
BP501TT Medicinal Chemistry II	
Code	Course Outcome
CO1	Understanding the relation of chemistry of drugs with respect to their pharmacological activities.
CO2	Understanding drug metabolic pathways, adverse effects and therapeutic value of medicinal compounds
CO3	Understanding structural activity relationship of different class of drugs and its application in drug design
CO4	Application of knowledge of various reactions in chemical synthesis of selected drugs



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COURSE OUTCOME (COs)

BP502TP PHARMACOLOGY - II	
Code	Course Outcome
CO1	Fundamental knowledge on various pharmacological aspects of selected drugs acting in different systems of body
CO2	Understanding the mechanism of drug action and its relevance in the treatment of different diseases
CO3	Knowledge of various autocids and their role
CO4	Fundamental knowledge about principles and applications of bioassay
CO5	Understanding the concept and ability to perform bioassays
BP503TP Pharmacognosy and Phytochemistry II	
Code	Course Outcome
CO1	Knowledge and Ability to carry out modern extraction techniques, characterization and identification of the herbal drugs and phytoconstituents
CO2	Knowledge and ability to evaluate phytoconstituents in crude drugs by qualitative and quantitative methods
CO3	Knowledge about methods of isolation and identification of phytoconstituents from crude drugs.
CO4	Knowledge about biosynthesis of natural molecules and its pathway and its relevance.
CO5	Ability to perform identification, isolation and evaluation of crude drugs from natural resources in laboratory scale.
BP504TP Pharmaceutical Microbiology	
Code	Course Outcome
CO1	Understanding of methods of identification, cultivation and preservation of various microorganisms
CO2	Understanding the importance and implementation of sterilization process in pharmaceutical processing
CO3	To know and apply sterility testing of pharmaceutical products
CO4	Understanding cell culture technology and its applications in pharmaceutical industries.
CO5	To carry out microbiological standardisation in pharmaceuticals
BP505TT Pharmaceutical Biotechnology	
Code	Course Outcome
CO1	Understanding the importance of immobilised enzymes in pharmaceutical industries and knowledge of fermentation methods and products.
CO2	Understanding about genetic engineering and its applications in pharmaceutical production
CO3	Knowledge about human immunity, blotting techniques, monoclonal bodies and immunization products.
CO4	knowledge about genetic organization of eukaryotes, prokaryotes and Microbial genetics
BP601TP Medicinal Chemistry III	
Code	Course Outcome
CO1	Understanding the importance of drug design and different techniques of drug design
CO2	Knowledge about chemistry of drugs with respect to their biological activity and its application in drug design
CO3	Knowledge about metabolism, adverse effects and therapeutic value of drugs and its use in drug design.
CO4	Understanding the importance of structural activity relationship of different class of drugs and its application in drug design
CO5	Ability to carry out synthesis and assay of specific medicinal compounds.
BP602TP Pharmacology III	
Code	Course Outcome
CO1	Fundamental knowledge on various pharmacological aspects of selected drugs acting in different systems of body
CO2	Understanding the mechanism of drug action and its relevance in the treatment of different diseases and infections
CO3	Knowledge of immunopharmacology- immunostimulants and immunosuppressants
CO4	Fundamental knowledge about principles of toxicology and treatment of poisoning
CO5	Understanding the concept and ability to perform bioassays



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COURSE OUTCOME (COs)

BP603TP Herbal Drug Technology	
Code	Course Outcome
CO1	Knowledge of raw material as source of herbal drugs from cultivation to herbal drug products
CO2	Understanding and use of WHO and ICH guidelines for evaluation of herbal drugs
CO3	Knowledge and ability to prepare herbal cosmetics, natural sweeteners, nutraceuticals
CO4	To appreciate patenting of herbal drugs, GMP and to know its importance
CO5	Ability to prepare, standardise and evaluate as per WHO guidelines/ pharmacopoeial requirements
BP604TT Biopharmaceutics and Pharmacokinetics	
Code	Course Outcome
CO1	To know basic concepts in biopharmaceutics and pharmacokinetics and their significance.
CO2	Knowledge and use of plasma drug concentration time data to calculate the pharmacokinetic parameters to describe pharmacokinetic properties of drug.
CO3	Understanding the concepts of bioavailability and bioequivalence of drug products and their significance.
CO4	Understanding various pharmacokinetic parameters, their significance and its applications.
BP605TP Industrial Pharmacy I	
Code	Course Outcome
CO1	Understanding the concept of preformulation studies and its application
CO2	Knowledge and applications of various considerations in development and manufacturing of pharmaceutical dosage forms
CO3	Knowledge and skills about various manufacturing methods and evaluation parameters for various types of dosage forms.
CO4	Knowledge about packaging materials for pharmaceutical products and factors affecting its choice.
CO5	Ability to formulate and evaluate different dosage forms.
2270001 Dosage Form Design I	
Code	Course Outcome
CO1	Understanding the concepts of preformulation studies and various characterization methods
CO2	Knowledge about the pharmaceutical aids and its application in preparation of various dosage forms
CO3	To know and apply the concept of pharmaceutical drug stability
CO4	To know basics of biopharmaceutics and its importance in drug delivery systems
CO5	Ability to formulate and evaluate of different dosage forms.
2270002 Pharmaceutical Technology I	
Code	Course Outcome
CO1	To know and apply various requirements, manufacturing techniques and machineries in manufacturing of selected dosage forms
CO2	To know and apply the knowledge of evaluation methods on manufactured pharmaceutical products
CO3	Knowledge of packaging of manufactured pharmaceutical products
CO4	Understanding basics of cosmeticology & various cosmetic products.
CO5	To know about Good Manufacturing Practice and its importance in pharmaceutical industry & validation of some selected unit operations
CO6	Ability to carry out formulation and evaluation of different dosage forms.
2270003 PHARMACEUTICAL CHEMISTRY-IX	
Code	Course Outcome
CO1	Fundamental knowledge and chemical aspects of various categorized drugs.
CO2	To know and apply synthetic procedures of selected drugs along with its recent developments
CO3	Knowledge of various computational and advanced methods for drug designing and development
CO4	To know about structure activity relationship of drugs and importance of physicochemical properties of drugs.
CO5	Ability to perform chemical synthesis of various organic compounds and characterization with the help of UV-spectroscopy.



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COURSE OUTCOME (COs)

2270004 Pharmacology III	
Code	Course Outcome
CO1	Basic pharmacology of various classes of drugs
CO2	Understanding of epidemiology, etiology, sign and symptoms of various diseases
CO3	Understanding about pathophysiology, diagnosis, and complications of various diseases
CO4	To know and ability to evaluate various treatment and management of various diseases
CO5	Ability to interpretate laboratory data, therapeutic drug monitoring, patient counseling, drug interactions, dose adjustment and prescription audit
2270005 Pharmacognosy-V	
Code	Course Outcome
CO1	Knowledge about biogenesis of some pharmaceutically important compounds.
CO2	Fundamental knowledge of toxic plants, herbal cosmetics, nutraceuticals and plant sweeteners
CO3	To know principles of alternative systems of medicine and holistic concepts of ayurveda
CO4	Knowledge of some selected ayurvedic formulations and their evaluation
CO5	Morphological, chemical, use and names of few marketed formulations of selected indigenous drugs.
CO6	Ability to perform practicals related to preparation and standardisation of ayurvedic and herbal formulations
2270011 Herbal Cosmetics	
Code	Course Outcome
CO1	To understand objectives, current trends and to know about raw materials used for preparation of herbal cosmetics.
CO2	Basic knowledge of herbs having selected pharmacological activities
CO3	Knowledge about various herbal cosmetics and formulations available for hair and skin care.
CO4	To know about regulatory guidelines, permitted colors and flavors and packaging and labeling requirements.
2270014 Instrumental and Process Validation	
Code	Course Outcome
CO1	To know about basic Principles, Instrumentation and applicability of different analytical Techniques (Chromatographic, methods).
CO2	To know and apply the separation techniques like GC, HPLC and HPTLC in drug analysis.
CO3	Understanding basic concepts & types of validation along with qualification.
CO4	To know about bioanalytical HPLC method development & validation technique and its application
CO5	To know about applicability of Automation in Laboratory
2280001 Dosage Form Design II	
Code	Course Outcome
CO1	To know and apply the concept of sustained and controlled release formulations
CO2	To know about various novel drug delivery systems with their design, formulation and development
CO3	To know about various pharmacokinetic parameters, significance and factors affecting it
CO4	To know about clinical pharmacokinetics
CO5	Ability to formulate and evaluate various novel drug delivery systems
2280002 Pharmaceutical Technology II	
Code	Course Outcome
CO1	To know and apply various requirements, manufacturing techniques and machineries in manufacturing of tablets and capsules
CO2	To know and apply the knowledge of evaluation methods for tablets and capsules
CO3	To know concepts and applications of extrusion-pelletization and supercritical fluid technology in field of Pharmacy.
CO4	Knowledge of packaging of manufactured pharmaceutical products
CO5	Ability to formulate different dosage forms and evaluate them for their quality.



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COURSE OUTCOME (COs)

2280003 PHARMACEUTICAL CHEMISTRY-X	
Code	Course Outcome
CO1	Fundamental knowledge about chemical aspects of drugs and its application.
CO2	To know and ability to carry out schematic synthesis of some specified drugs.
CO3	To know chemistry of drugs in relation to their biological activity.
CO4	Understanding of structure activity relationship of drugs, importance of physicochemical properties and metabolism of drugs.
CO5	Ability to perform the chemical synthesis of some drugs and understand the mechanism and type of reactions
2280004 Pharmacology and Pharmacotherapeutics-IV	
Code	Course Outcome
CO1	Understanding of epidemiology, etiology, sign and symptoms of various diseases
CO2	Understanding about signs and symptoms and diagnosis of various of diseases
CO3	To know about various aspects like classification, mechanism of action, clinical uses, side effects and contraindications
CO4	To know about the therapeutic approach to management of diseases.
CO5	Ability to perform experiments on isolated preparations and to perform bioassays.
2280005 Pharmacognosy-VI	
Code	Course Outcome
CO1	To know about preparation of herbal extracts and its standardisation.
CO2	To know and apply separation and evaluation methods of medicinally active constituents
CO3	To know about recent development for the treatment and management of various class of diseases by herbal drugs.
CO4	To know regulatory guidelines and importance of pharmacovigilance in herbal drug industry
CO5	Ability to perform identification tests and analysis of medicinally active constituents by qualitative and quantitative methods
2280012 Intellectual Property Rights and Patents	
Code	Course Outcome
CO1	Understanding the importance of IPR and Patents for Pharmacy profession.
CO2	Knowledge about legislation related to IPR and their implications in the development & marketing on national and international trade.
CO3	To know about all types of IPR and Patent filing steps.
CO4	Ability to identify patentable and non-patentable inventions as per Indian patent act with patentability requirements.
CO5	To know about regulatory agencies governing the manufacture, sale and usage of pharmaceuticals.