

SEM1	
вріоіт н	uman Anatomy and Physiology I (BP101T) [Theory   Regular]
CO ID.	Course Outcome
BP101T.1	Understand the gross morphology, structure and functions of various tissues, organs of the human body and know about cellular level of organisation in body.
BP101T.2	Know about structure and functions of skin and know about in detailed information of skeletal system and joints.
BP101T.3	Know about Blood and various body fluids with their significance and disorders. Understand about Lymphatic system and its functions.
BP101T.4	Understand classification and functions of Peripheral nervous system and different sense organs of body.
BP101T.5	Understand the anatomy and physiology of circulatory system and disorders of heart.
BP102T PI	narmaceutical Analysis I (BP102T) [Theory   Regular]
COID.	Course Outcome
BP102T.1	Understands the concept of pharmaceutical analysis, its scope and methods of expressing concentration
BP102T.2	Develop analytical skills through lab exercises to minimize errors in qualitative and quantitative analysis. Apply concept accuracy, precision, significant figures with examples.
BP102T.3	Discuss significance of quality control in pharmaceutical analysis and Employ different theories(acid base theories, Neutralization curves, indicator theory, law of mass action, Henderson Hassalbach equation).
BP102T.4	Explain basic concepts and principles of aqueous acid base titrations and clarify need of non-aqueous acid base titrations as well as acknowledge the basic principle of redox titration, precipitation titration, Complexometric titration, Gravimetric analysis.
BP1021.5	Understands the electrochemical methods of analysis including conductomertry, potentiometry and polarography.
BP102T.6	Acquire the knowledge of principle and theory of refractometry, refractive index, and instruments used in determination of refractometry.
3P103T Ph	armaceutics I (BP103T) [Theory   Regular]
CO ID.	Course Outcome
5-103T.1	Know the history of profession of Pharmacy
3P103T.2	Understand the various dosage form, pharmaceutical calculation
3P103T.3	Gain knowledge about various pharmaceutical incompatibility
3P103T.4	Preparation of various dosage form
3P104T Pha	rmaceutical Inorganic Chemistry (BP104T) [Theory   Regular]
:O ID.	Course Outcome
P104T.1	Recite the history of Pharmacopoeia.
P104T.2	Understand different sources of impurities & method for determining the impurities in inorganic drugs & pharmaceuticals.
P104T.3	Recognize types of water and methods for reducing hardness of water.
P104T.4	Understand the basic concepts of acidity & basicity, buffers and tonicity applicable in pharmaceuticals& also explain the methods of adjusting isotonicity.
	Acquire knowledge of various major intra and extra cellular electrolytes and their physiological role along with gharmac utical compounds.
P104T.6	Recall the medicinal and pharmaceutical importance of inorganic compounds.
P104T.7	Explain various aspects of radiopharmaceuticals

BP105T (	Communication Skills (BP105T) [Theory   Regular]
CO ID.	Course Outcome
BP105T.1	Knowledge of basic aspects & soft skills for effective communication.
BP105T.2	Distinguish the elements of communication & communication style & its application for effectively manage the team as a team player.
BP105T.3	Understand the basic listening skills & its importance in pharmacy practice.
BP105T.4	Acquire the knowledge of technical writing skill
BP105T.5	Develop the interview skills & group discussior skills.
BP107P F	luman Anatomy and Physiology (BP107P) [ Practical   Regular ]
CO ID.	Course Outcome
BP107P.1	Explain the gross morphology, structure and functions of various organs of the human body.
BP107P.2	Identify the various tissues and organs of different systems of human body
BP107P.3	Understand the parts of compound microscope and its function
BP107P.4	Determine the heart rate, pulse rate and parameteres of blood such as bleeding time, clotting time, erythrocyte sedimentation rate and Internoglobin content
E-107P.5	Know the basic knowledge of haemocytometry
BP107P.6	Record the blood pressure.
BP108P P	harmaceutical Analysis I (BP108P) [ Practical   Regular ]
CO ID.	Course Outcome
BP108P.1	Understand the apparatus and glasswares used in analytical chemistry
BP108P.2	Know the importance of calibration process during analysis of any compound.
BP108P.3	Understand the principles, reaction condition, factor calculations for various methods of volumetric and electrochemical methods of analysis.
BP108P.4	Study different errors during analysis
BP108P.5	Demonstrate and explain different titrimetric methods as well as preparation and standardization of solutions with different strength
BP108P.6	Study concept of refractometry.
09P Ph	armaceutics I (BP109P) [ Practical   Regular ]
CO ID.	Course Outcome
BP109P.1	Explain formulation ,evaluation, and labeling of syrup, elixir powder, ointments
BP109P.2	Describe use of ingredients in formulation and category of formulation
BP109P.3	Compare various monophasic and biphasic liquid dosage form
BP109P.4	Compare various semisolid dosage forms
BP110P Pha	armaceutical Inorganic Chemistry (BP110P) [ Practical   Regular ]
CO ID.	Course Outcome
BP110P.1	Understand & perform the limit test of chloride, sulfate , Iron, arsenic ,lead and heavy metals
BP110P.2	Know about identification test for the sodium bicarbonate, magnesium hydroxide, copper sulfate , calcium gluconate &ferrous sulphate.
BP110P.3	Understand and perform the test of purification of Bentonite by measuring swelling power/index
BP110P.4	Understand and perform the test for purification of neutralizing capacity of Aluminium hydroxide gel
BP110P.5	Understand and perform the test of purification of Bentonite by measuring swelling power/index  Understand and perform the test for purification of neutralizing capacity of Aluminium hydroxide gel  Determination of potassium iodate and iodine ir potassium iodide
BP110P.6	Preparation of inorganic pharmaceuticals such as boric acid, potash alum and ferrous sulphate

BPIIIP Co	P111P Communication skills (BP111P) [ Practical   Regular	
CO ID.	Course Outcome	
ВРППР.1	Understand basic communication skills to interact effectively.	
BPIIIP.2	Knowledge of soft skills set to work cohesively with team as a team player.	

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SEM 2	
Human A	natomy and Physiology-II (BP207P) [ Practical   Regular ]
CO ID.	Course Outcome
BP207P.1	Understand various systems using specimen, models, etc.,
BP207P.2	Demonstrate the neurological examination, function of olfactory nerve, visual acuity, reflex activity and positive and negative feedback mechanism
BP207P.3	Record the body temperature and and basal mass index
BP207P.4	Determine different types of taste as well as tidal volume and vital capacity
BP207P.5	Study the family planning devices and pregnancy diagnosis test
BP207P.6	Study of different systems present in our body.
0.07P.7	Practice and understand the procedure for calculating Platelet count and differential leukocyte count.
BP207P.8	Study of some changes in our metabolism and reflex activity.
BP201T Hu	man Anatomy and Physiology II (BP201T) [Theory   Regular]
CO ID.	Course Outcome
BP201T.1	Understand the organization of nervous system.
BP201T.2	Know the structure and functions of parts of Digestive system
BP201T.3	Understand the functions, structure and anatomy of respiratory system.
BP201T.4	Know the classification of hormones and details of Endocrine system.
BP201T.5	Understand the functions and structure of male and female reproductive system and basics of genetics.
BP202T Pha	armaceutical Organic Chemistry I (BP202T) [Theory   Regular]
CO ID.	Course Outcome
0.02T.1	Study the basic principles of organic chemistry like hybridization, bond fission, intermolecular forces, structural effects, concept of isomerism and tautomerism etc.
BP202T.2	Describe the classification of organic compounds and Practice the IUPAC nomenclature system
BP202T.3	Understand stabilities of alkenes, conjugated dienes, mechanism, orientation of elimination, Electrophilic, free radical and Nucleophilic addition reaction and mechanism, kinetics, stereochemistry and factors affecting SN1 & SN2 reaction.
BP202T.4	Discuss the acidity of carboxylic acids and basicity of amines and Know different qualitative test for the different functional group.
BP202T.5	Discuss the mechanism of some named reaction.
BP202T.6	Study structures, qualitative tests and uses of different functional groups and related organic compounds.
BP203T BIO	CHEMISTRY THEORY (*BP203T) [Theory   Regular]
CO ID.	Course Outcome
3P203T.1	Understand the catalytic role of enzyme and importance of enzymes in biochemical process.
3P203T.2	Understand the metabolism of nutrient molecules in physiological and pathological conditions.
BP203T.3	Understand the genetic organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins.
BP204T PATI	HOPHYSIOLOGY (BP204T) [Theory   Regular]
CO ID.	Course Outcome

BP204T.3	Know the etiology of the selected disease states
BP204T.4	
BP2041.5	
BP204T.6	
BP204T.1	
BP204T.2	The process of innatination and repair
BP205T C	COMPUTER APPLICATION IN PHARMACY (BP205T) [Theory   Regular]
CO ID.	Course Outcome
BP205T.1	Know various types of application of computers in pharmacy
BP205T.2	Know the various types of databases.
BP205T.3	.Know the various applications of databases in pharmacy.
BP205T.4	Know the number system used in computer
RP205T5	know the concepts of information system and software
BP205T.6	know the various bioinformatics and its impact on vaccines
₽-206T E	NVIRONMENTAL SCIENCES (BP206T) [Theory   Regular]
CO ID.	Course Outcome
BP206T.1	Create the awareness about environmental problems among learners.
BP206T.2	Impart basic knowledge about the environment and its allied problems.
BP206T.3	Develop an attitude of concern for the environment.
BP206T.4	Motivate learner to participate in environment protection and environment improvement.
BP206T.5	Acquire skills to help the concerned individuals in identifying and solving environmental problems.
BP206T.6	Strive to attain harmony with Nature.
BP208P PI	HARMACEUTICAL ORGANIC CHEMISTRY I (BP208P) [ Practical   Regular ]
CO ID.	Course Outcome
BP208P.1	Explain and understand the principle and application of each experiment performed in laboratory.
ь. 202P.5	Discuss principle behind various qualitative tests and analyse the given unknown organic compounds having different functional groups.
BP202P.3	Understand the basic organic chemistry laboratory techniques, including calibration of thermometer, distillation, recrystallization, melting point and boiling determination.
BP202P.2	Understand and apply safe laboratory practices through the use of appropriate personal protective equipment and appropriate handling of all chemicals, including proper disposal of waste.
BP202P.6	Construct molecular models of compounds using atomic models sets.
BP202P.4	Know the Preparation methods of suitable solid derivatives from organic compounds with their reaction mechanism.
BP209P BIG	OCHEMISTRY (BP209P) [ Practical   Regular ]
CO ID.	Course Outcome
BP209P.1	Know about the qualitative analysis of carbohydrates (glucose,fructose,lactose,maltose,sucrose,and starch)
BP209P.2	Know about the identification test for proteins
BP209P.3	Know about the qualitative analysis of reducing sugars (DNSA method) and proteins (Biuret method)  Understand the qualitative analysis of urine for abnormal constituents
BP209P.4	Understand the qualitative analysis of urine for abnormal constituents
BP209P.5	Study about the determination of blood creatinine, blood sugars

BP209P.7	Study of the enzymatic hydrolysis of starch.
BP209P.8	Determination of salivary amylase activity.
BP210P CC	MPUTER APPLICATION IN PHARMACY (BP210P) [ Practical   Regular ]
CO ID.	Course Outcome
BP210P.1	make a list of questionaries and label wizard using MS Word
BP210P.2	Understand and create HTML web page
BP210P.3	Retrieve information about drugs
BP210P.4	Creating (a database, working with queries, mailing labels with labeling wizard, invoice table) IN MS Access
BP210P.5	know how to export data and reports to and HTML and XML
DEG DEG (	TH) [Theory   Regular]
CO ID.	Course Outcome
DEG1	Introduce the students meaning of democracy and its different models
DEG2	Know the role of the governance
DEG3	Understand the various approaches to the study of democracy and governance
DEG4	Understand and classify different parts of the constitution of india
DEG5	Understand and describe different amendments and provisions in the constitution of India

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SEM 3	
BP301T PI	narmaceutical Organic Chemistry II (BP301T) [Theory   Regular]
CO ID.	Course Outcome
BP301T.1	Write the structure, name and the type of isomerism of the organic compound
BP301T.2	Write the reaction, name the reaction, and orientation of the reactions
BP301T.3	Account for reactivity/stability of compounds
BP301T.4	Understand the preparation of various organic compounds.
BP301T.5	Differentiate the polynuclear organic compounds with respect to their chemistry
BP302T P	nysical Pharmaceutics I (BP302T) [Theory   Regular]
CO ID.	Course Outcome
BP302T.1	Investigate and apply various theories, laws and equations related to different states of matter
BP302T.2	Distinguish the principles of complexation/ protein binding & to use them for calculations of drug release and stability constant
BP302T.3	Demonstrate use of physicochemical properties of drugs in the formulation development and evaluation of dosage forms
BP302T.4	Compare and contrast between one, two & three component system
BP302T.5	Know about crystallization as well as various parameters of crystal like crystal forms, habits, lattice angle, methods of crystal analysis, polymorphism
BP302T.6	Adapt knowledge of Non-electrolytic and Electrolytic solutions regarding their types and properties mostly colligative properties
BP302T.7	Explain and apply the key physical pharmacy concepts of solubility and dissolution, partitioning phenomena, surface phenomena, etc.
BP302T.8	Acquire sufficient knowledge of surface and interfacial tension between the surfaces
BP303T Ph	armaceutical Microbiology (BP303T) [Theory   Regular]
CO ID.	Course Outcome
BP303T.1	Study historical development of microbiology, it's scope, branches and classification of microbes
BP303T.2	Compare and contrast the various structural features, biology & characteristics of microbes
BP303T.3	Describe the classification, methods of identification, isolation, microbial growth/reproduction, cultivation, quantification, preservation and staining of microorganisms
BP303T.4	Understand microbial control techniques such as sterilization, sterility tests, disinfection and preservation of pharmaceutical products
BP303T.5	Enumerate microbial spoilage, microbial contamination and it's assessment
BP303T.6	Describe the cell culture technology and its applications in pharmaceutical industries
BP303T.7	Understand the concept of sterility and laminar air flow pattern
BP303T.8	understand the different techniques of sterilization  armaceutical Engineering (BP304T) [Theory   Regular]  Course Outcome
BP304T Pha	rmaceutical Engineering (BP304T) [Theory   Regular]
CO ID.	Course Outcome
BP304T.1	Gain knowledge about various unit operations used in Pharmaceutical industries
BP304T.2	Procure knowledge about the basics of various material handling techniques in pharmaceutical industry

BP304T.3	Understand the significance of plant lay out design for optimum use of resources and gain the knowledge of various materials used for pharmaceutical plant construction.
BP304T.4	Understand the various types of corrosion and the preventive methods that can be adopted for corrosion control in Pharmaceutical industries.
BP304T.5	Appreciate various preventive methods used for corrosion control in pharmaceutical industry.
BP304T.6	Analyze fundamentals of centrifuge for partice separation as well as mixer for particle mixing in pharmacy practice
BP305P P	HARMACEUTICAL ORGANIC CHEMISTRY II (BP305P) [ Practical   Regular ]
CO ID.	Course Outcome
BP305P.1	Learn different techniques like recrystallization and steam distillation
BP305P.2	Separate the given organic binary mixture
BP305P.3	Understand saponification value and its determination of different oil samples.
BP305P.4	Understand how to prepare small organic compound.
BP306P PI	HYSICAL PHARMACEUTICS - I (BP306P) [ Practical   Regular ]
CO ID.	Course Outcome
BP306P.1	Analyze the physicochemical properties such as solubility, pH, refractive index, partition coefficient, PKa values etc. experimentally.
БР306Р.2	Study the effect of electrolyte on upper consulate temperature in phase diagram.
BP306P.3	Demonstrate the various adsorption isotherms by experimentally.
BP306P.4	Determine the surface tension, critical mi-cellar concentration, HLB value of various surfactants.
BP306P.5	Complexation, Stability Constant, Donor-Acceptor ratio
BP307P PH	IARMACEUTICAL MICROBIOLOGY (BP307P) [ Practical   Regular ]
CO ID.	Course Outcome
BP307P.1	Know the principle, construction and working of equipments and skill to handle microscope for observation of microbes
BP307P.2	Prepare and sterilize nutrient broth, nutrient agar, slants, stabs and plates and adopt the skills required for maintaining strictly aseptic condition & handling inoculating loop, its sterilization and inoculation procedure
BP307P.3	Practice aseptic procedures for inoculation and examine sterility testing of pharmaceuticals
BP307P.4	Practice different methods of sterllization and isolate pure culture of microorganism
7:07P.5	Adapt the technique involved to see motility of bacteria i.e. hanging drop technique
BP307P.6	Develop skill to execute morphology of bacteria by staining and determine quality of water by Most probable number test (bacteriological analysis)
BP307P.7	Differentiate Gram negative intestinal bacteria by performing IMVIC test
BP307P.8	Learn standardization of pharmaceutical products microbiologically
ВРЗО8Р РН	ARMACEUTICAL ENGINEERING (BP308P) [ Practical   Regular ]
CO ID.	Course Outcome
BP308P.1	Study various pharmaceutical machines and the equipment's used in pharmaceutical industry.
BP308P.2	Perform various processes used in pharmaceutical manufacturing process
BP308P.3	Study the different methods used for determination of humidity
BP308P.4	Develop rigorous experimental and analytical skills for extraction and drying of sample in laboratory
3P308P.5	Study various unit operations used in pharmaceutical industry and the effect of factors influencing them.
Non Univers	ity Sub AECC Environment Studies [Theory   Regular]
CO ID.	Study various unit operations used in pharmaceutical industry and the effect of factors influencing them.  ity Sub AECC Environment Studies [Theory   Regular]  Course Outcome
AECCES.1	Understand basics of environment like ecology, ecosystem, food chain, food web and Ecological pyramids.

AECCES.2	Know the different natural sources and their conservation to save the environment.
AECCES.3	Know the current problems of environment and how to solve them, Role of individual in conservation of environment and natural resources.
AECCES.4	Understand the different factors of environmental pollution and measures to minimize it.

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Course Outcome
Knowledge of basic aspects & soft skills for effective communication.
Distinguish the elements of communication & communication style & its application for effectively manage the team as a team player.
Understand the basic listening skills & its importance in pharmacy practice.
Acquire the knowledge of technical writing skill
Develop the interview skills & group discussion skills.
nmunication skills (BP111P) [ Practical   Regular ]
Course Outcome
Understand basic communication skills to interact effectively.
Knowledge of soft skills set to work cohesively with team as a team player.
MPUTER APPLICATION IN PHARMACY (BP205T) [Theory   Regular]
Course Outcome
Know various types of application of computers in pharmacy
Know the various types of databases.
.Know the various applications of databases in pharmacy.
Know the number system used in computer
know the concepts of information system and software
know the various bioinformatics and its impact on vaccines
MPUTER APPLICATION IN PHARMACY (BP210P) [ Practical   Regular ]
Course Outcome
Create questionnaires, mailing labels and other documentation related to pharmacy by using MS WORD.
Retrieve the information using online tools.
Create databases and webpages using HTML.
Create, View, Add, Delete and modify the data bases using MS Access.
Generate report; work with queries, invoice tables using MS Access.
Export table, forms and queries using web and XML pages to
maceutical Organic Chemistry II (BP301T) [Theory   Regular]
Course Outcome
Write the structure, name and the type of isomerism of the organic compound
Write the structure, name and the type of isomerism of the organic compound  Write the reaction, name the reaction and orientation of reactions
Account for reactivity/stability of compounds

BP301T.5	Differentiate the polynuclear organic compounds with respect to their chemistry
BP302T P	hysical Pharmaceutics I (BP302T) [Theory   Regular ]
CO ID.	Course Outcome
BP302T.1	Investigate and apply various theories, laws and equations related to different states of matter
BP302T.2	Distinguish the principles of complexation/ protein binding & to use them for calculations of drug release and stability constant
BP302T.3	Demonstrate use of physicochemical properties of drugs in the formulation development and evaluation of dosage forms
BP302T.4	Compare and contrast between one, two & three component system
BP302T.5	Know about crystallization as well as various parameters of crystal like crystal forms, habits, lattice angle, methods of crystal analysis, polymorphism
BP302T.6	Adapt knowledge of Non-electrolytic and Electrolytic solutions regarding their types and properties mostly colligative properties
BP302T.7	Explain and apply the key physical pharmacy concepts of solubility and dissolution, partitioning phenomena, surface phenomena, etc.
BP302T.8	Acquire sufficient knowledge of surface and interfacial tension between the surfaces
BP303T Ph	armaceutical Microbiology (BP303T) [Theory   Regular]
CO ID.	Course Outcome
БР303Т.1	Study historical development of microbiology, it's scope, branches and classification of microbes
BP303T.2	Compare and contrast the various structural features, biology & characteristics of microbes
BP303T.3	Describe the classification, methods of identification, isolation, microbial growth/reproduction, cultivation, quantification, preservation and staining of microorganisms
BP303T.4	Understand microbial control techniques such as sterilization, sterility tests, disinfection and preservation of pharmaceutical products
BP303T.5	Enumerate microbial spoilage, microbial contamination and it's assessment
BP303T.6	Describe the cell culture technology and its applications in pharmaceutical industries
BP303T.7	Understand the concept of sterility and laminar air flow pattern
BP303T.8	understand the different techniques of sterilization
BP304T Ph	armaceutical Engineering (BP304T) [Theory   Regular]
CO ID.	Course Outcome
ь304Т.1	Gain knowledge about various unit operations used in Pharmaceutical industries
BP304T.2	Procure knowledge about the basics of various material handling techniques in pharmaceutical industry
BP304T.3	Understand the significance of plant lay out design for optimum use of resources and gain the knowledge of various materials used for pharmaceutical plant construction.
BP304T,4	Understand the various types of corrosion and the preventive methods that can be adopted for corrosion control in Pharmaceutical industries.
BP304T.5	Appreciate various preventive methods used fcr corrosion control in pharmaceutical industry.
BP304T.6	Analyze fundamentals of centrifuge for particle separation as well as mixer for particle mixing in pharmacy practice
BP305P PH	ARMACEUTICAL ORGANIC CHEMISTRY II (BP305P) [ Practical   Regular ]
CO ID.	Course Outcome
BP305P.1	Learn different techniques like recrystallization and steam distillation
BP305P.2	Separate the given organic binary mixture  Understand saponification value and its determination of different oil samples.  Understand how to prepare small organic compound.
BP305P.3	Understand saponification value and its determination of different oil samples.
BP305P.4	Understand how to prepare small organic compound.
BP306P PH	SICAL PHARMACEUTICS - I (BP306P) [ Practical   Regular ]

CO ID.	Course Outcome
BP306P.1	Analyze the physicochemical properties such as solubility, pH, refractive index, partition coefficient, PKa values etc. experimentally.
BP306P.2	Study the effect of electrolyte on upper consulate temperature in phase diagram.
BP306P.3	Demonstrate the various adsorption isotherms by experimentally.
BP306P.4	Determine the surface tension, critical mi-cellar concentration, HLB value of various surfactants.
BP306P.5	Complexation, Stability Constant, Donor-Acceptor ratio
BP307P PI	HARMACEUTICAL MICROBIOLOGY (BP307P) [ Practical   Regular ]
CO ID.	Course Outcome
BP307P.1	Know the principle, construction and working of equipments and skill to handle microscope for observation of microbes
BP307P.2	Prepare and sterilize nutrient broth, nutrient agar, slants, stabs and plates and adopt the skills required for maintaining strictly aseptic condition & handling inoculating loop, its sterilization and inoculation procedure
BP307P.3	Practice aseptic procedures for inoculation and examine sterility testing of pharmaceuticals
BP307P.4	Practice different methods of sterilization and isolate pure culture of microorganism
BP307P.5	Adapt the technique involved to see motility of bacteria i.e. hanging drop technique
307P.6	Develop skill to execute morphology of bacteria by staining and determine quality of water by Most probable number test (bacteriological analysis)
BP307P.7	Differentiate Gram negative intestinal bacteria by performing IMVIC test
BP307P.8	Learn standardization of pharmaceutical products microbiologically
BP308P PH	ARMACEUTICAL ENGINEERING (BP308P) [ Practical   Regular ]
CO ID.	Course Outcome
BP308P.1	Study various pharmaceutical machines and the equipment's used in pharmaceutical industry.
BP308P.2	Perform various processes used in pharmaceutical manufacturing process
BP308P.3	Develop rigorous experimental and analytical skills for extraction and drying of sample in laboratory
BP308P.4	Study various unit operations and process used in pharmaceutical industry and the effect of factors influencing them.
Non Univer	sity Sub AECC Environment Studies [Theory   Regular]
CO ID.	Course Outcome
CES.1	Understand basics of environment like ecology, ecosystem, food chain, food web and Ecological pyramids.
AECCES.2	Know the different natural sources and their conservation to save the environment.
AECCES.3	Know the current problems of environment and how to solve them, Role of individual in conservation of environment and natural resources.
AECCES.4	Understand the different factors of environmental pollution and measures to minimize it.

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SEM 4		
AECC Env	ironment Studies [ Theory   Regular ]	
CO ID.	Course Outcome	
AECCES.1	Understand human community and its impact on environment	
AECCES.2	Get knowledge about environmental policies	
AECCES.3	Understand about environmental pollution and its control measures	
AECCES.4	Motivate to students about environmental awareness by field visit	
BP401T Ph	armaceutical Organic Chemistry III (BP401T) [ Theory   Regular ]	
CO ID.	Course Outcome	
BP401T.1	Understand the methods of preparation and properties of organic compounds.	
BP401T.2	Explain the stereochemical aspects of organic compounds and steree chemicalreactions.	
BP401T.3	Know the medicinal uses and other applications of organic compounds	
BP401T.4	Understand the reactions and mechanism of name reactions.	
BP402T Me	dicinal Chemistry I (BP402T) [Theory   Regular]	
CO ID.	Course Outcome	
BP402T.1	Know the connection in between physicochemical properties, mechanism of action, uses and structural features of various drugs with respect to pharmacological activities.	
BP402T.2	Understand the drug metabolic pathways, adverse effect and therapeutic value of Drugs	
BP402T.3	Write synthesis of drugs and remember the structure of important drugs with its activity.	
BP402T.4	Know the Structural Activity Relationship (SAR) of different class of drugs.	
BP402T.5	Understand classification, Mechanism of action, Uses of Drugs acting on Autonomic nervous system and Central nervous system.	
i03T Phy	rsical Pharmaceutics II (BP403T) [Theory   Regular]	
CO ID.	Course Outcome	
3P403T.1	Understand various physicochemical properties of drug & excipient molecules in designing the dosage form	
3P403T.2	Describe the flow behavior of fluids and the concept of thixotropy in pharmaceuticalformulations	
3P403T.3	Explain the concept of surface and interfacial tension and HLB scale & method of formulation.	
3P403T.4	Understand the fundamentals of chemical kinetics and stability of the drugs under accelerated conditions.	
3P403T.5	Know the behavior and mechanism of drugs and excipients in the formulation development and evaluation of dosage forms.	
3P403T.6	Determine the concept of micromeritics along with methods & its applications.	
P404T Pha	rmacology I (BP404T) [Theory   Regular]	
0 ID.	Course Outcome	
P404T.1	Know basics of Pharmacology like history, scope and general principles.	
P404T.2	Explain the mechanism of drug action at organ system/sub cellular/ macromolecular levels	
P404T.3	Explain the mechanism of drug action at organ system/sub cellular/ macromolecular levels  Know basics of Peripheral nervous system and pharmacology of drugs acting on PNS.  Know basics of Central nervous system and pharmacology of drugs acting on CNS.	
P404T.4	Know basics of Central nervous system and pharmacology of drugs acting on CNS.	

BP404T.5	Know the basics pharmacology of drugs acting on CNS and action of drugs in treatment of diseases.
BP405T P	harmacognosy and Phytochemistry I (BP405T) [Theory   Regular ]
CO ID.	Course Outcome
BP405T.1	know the techniques in the cultivation and production of crude drugs
BP405T.2	know the crude drugs, their uses and chemical nature
BP405T.3	know the evaluation techniques for the herbal drugs
BP405T.4	carry out the microscopic and morphological evaluation of crude drugs
BP405T.5	Understand the concept of plant tissue culture and its applications in pharmacognosy
BP405T.6	Understand the classification of crude drugs, its sources and scope of Pharmacognosy
BP406P M	ledicinal Chemistry I (BP406P) [ Practical   Regular ]
CO ID.	Course Outcome
BP406P.1	Study the different purification techniques including Recrystallization, TLC.
BP406P.2	Prepare small organic compounds / drugs / drug intermediates.
BP406P.3	Perform purification of synthesized compounds by Column chromatography.
BP406P.4	Determine the Partition coefficient and Ionisation constants.
BP407P Ph	nysical Pharmaceutics II (BP407P) [ Practical   Regular ]
CO ID.	Course Outcome
BP407P.1	Determine the particle size, particle size distribution by various meyhods.
BP407P.2	Evaluate bulk density, true density, porosity, the angle of repose of powder & study the influence of lubricant on angle of repose
BP407P.3	Determine the viscosity of liquids by using different viscometer.
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BP407P.4	Evaluate sedimentation volume of suspension.
BP407P.5	Evaluate sedimentation volume of suspension.  Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.
BP407P.5	
BP407P.5	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.
BP407P.5	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.
BP407P.5 BP408P Ph	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.  narmacology I (BP408P) [ Practical   Regular ]  Course Outcome
BP408P Ph CO ID. BP408P.1	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.  narmacology I (BP408P) [ Practical   Regular ]  Course Outcome  Understand the pharmacological actions of different categories of drugs
BP408P Ph CO ID. BP408P.1 BP408P.2	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.  narmacology I (BP408P) [ Practical   Regular ]  Course Outcome  Understand the pharmacological actions of different categories of drugs  Observe the effect of drugs on animals by simulated experiments
BP408P Ph CO ID. BP408P.1 BP408P.2 BP408P.3 BP408P.4	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.  narmacology I (BP408P) [ Practical   Regular ]  Course Outcome  Understand the pharmacological actions of different categories of drugs  Observe the effect of drugs on animals by simulated experiments  Appreciate correlation of pharmacology with other bio medical sciences
BP408P Ph CO ID. BP408P.1 BP408P.2 BP408P.3 BP408P.4	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.  narmacology I (BP408P) [ Practical   Regular ]  Course Outcome  Understand the pharmacological actions of different categories of drugs  Observe the effect of drugs on animals by simulated experiments  Appreciate correlation of pharmacology with other bio medical sciences  Get knowledge about pharmacology lab,eg. arimals,instruments,animal handling skills etc
BP408P.1 BP408P.2 BP408P.3 BP408P.4 BP409P Ph	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.  narmacology I (BP408P) [ Practical   Regular ]  Course Outcome  Understand the pharmacological actions of different categories of drugs  Observe the effect of drugs on animals by simulated experiments  Appreciate correlation of pharmacology with other bio medical sciences  Get knowledge about pharmacology lab,eg. arimals,instruments,animal handling skills etc  armacognosy and Phytochemistry I (BP409P) [ Practical   Regular ]
BP408P.1 BP408P.2 BP408P.3 BP408P.4 BP409P.h	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.  Diarmacology I (BP408P) [ Practical   Regular ]  Course Outcome  Understand the pharmacological actions of different categories of drugs  Observe the effect of drugs on animals by simulated experiments  Appreciate correlation of pharmacology with other bio medical sciences  Get knowledge about pharmacology lab,eg. arimals,instruments,animal handling skills etc  armacognosy and Phytochemistry I (BP409P) [ Practical   Regular ]  Course Outcome
BP408P.1 BP408P.2 BP408P.3 BP408P.4 BP409P.1 CO ID.	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.  Description of different categories of drugs.  Description of drugs on animals by simulated experiments.  Description of pharmacology with other bio medical sciences.  Description of pharmacology with other bio medical sciences.  Description of pharmacology lab,eg. arimals,instruments,animal handling skills etc  Description of two acids.  Description of two acids.
BP408P.Ph CO ID. BP408P.1 BP408P.2 BP408P.3 BP408P.4 BP409P.h CO ID. BP409P.1 BP409P.2	Calculate energy of activation of acid hydrolysis, order of given reaction, relative strength of two acids.  Description of the pharmacological actions of different categories of drugs  Observe the effect of drugs on animals by simulated experiments  Appreciate correlation of pharmacology with other bio medical sciences  Get knowledge about pharmacology lab,eg. arimals,instruments,animal handling skills etc  armacognosy and Phytochemistry I (BP409P) [Practical   Regular]  Course Outcome  Analyze unorganized crude drug by chemical tests  Evaluate and identify crude drug by microscopical study







SEM 5		
BP501T M	edicinal Chemistry II (BP501T) [Theory   Regular	
CO ID.	Course Outcome	
BP501T.1	Helps in correlating between pharmacology of a disease and its mitigation or cure of different drug classes and their side effects	
BP501T.2	Know the structural activity relationship of different class of drugs.	
BP501T.3	Explain synthesis of drugs and also recall the structure of some important drugs.	
BP501T.4	Apply the core theoretical knowledge and explain the rational use of autacoids and related drugs.	
BP501T.5	Understand classification, Mechanism of action, Uses of Drugs acting on Cardiovascular systems.	
BP501T.6	Understand drugs acting on Endocrine system: Sexhormones, Drugs for erectile dysfunction, Oral contraceptives, Corticosteroids, Thyroid and Antithyroid drugs	
501T.7	Learn Drugs used as Local anesthetics & anti diabetic agents	
BP502T Ind	dustrial Pharmacy - I (BP502T) [Theory   Regular]	
CO ID.	Course Outcome	
BP502T.1	Describe the physicochemical properties which are important for formulation development of solid, liquid and sterile dosage forms.	
BP502T.2	Interpret formulation data and subsequent analysis data towards selection of the most stable and effective formulations.	
BP502T.3	Prepare quality pharmaceutical formulations from known references which are suitable for patient use.	
3P502T.4	Explain the concept and importance of evaluation of product performance and interpret such data	
BP502T.5	Describe the principles of sterile preparations and also why quality assurance and validation of critical steps in the production process are of significant importance.	
BP502T.6	Develop cosmetic preparations with desired Safety, stability, and efficacy	
3P502T.7	Develop aerosol formulations and understand the importance of evaluation tests for aerosols.	
PP502T.8	Understand the importance of pharmaceutical packaging and its applications.	
3P503T Ph	armacology II (BP503T) [Theory   Regular]	
:O ID.	Course Outcome	
3P503T.1	Analyze the mechanism of drugs acting on cardiovscular system	
3P503T.2	Express in depth knowledge about pharmacology and pharmacotherapy of drugs used in against autacoids	
3P503T.3	Summarize the detail classification, mechanism of action, pharmacokinetics, therapeutic uses, adverse effects drug interactions of drugs acting on cardiovascular drugs and endocrine system	
3P503T.4	Summarize the detail mechanism of Principles, applications and types of bioassay	
P503T.5	Study of Principles, applications and types of bioassay	
P504T Pha	rmacognosy and Phytochemistry II (BP504T) [Theory   Regular]	
O ID.	Course Outcome	
P504T.1	Highlight applicability and understand the relevance and significance of pharmacognosy and phytochemistry to pharmaceutical sciences	
3P504T.2	Clarify principles of modern extraction techniques & explain how these can be applied in characterize to all identification of the herbal drug and phytoconstituents	
P504T.3	Explain correct use of various equipment in pharmacognosy laboratory.	

BP504T.4	Understand the principle & applications of chromatographic & non-chromatographic separation methods	
BP504T.5	Understand the metabolic pathway in forma:ion of secondary metabolites and application of bio genetic Study.	
BP504T.6	Know the different classes of secondary metabolites with their composition, chemistry and chemical classes, biological source, method of extraction, uses and application.	
BP505T Pł	armaceutical Jurisprudence (BP505T) [Theory  Regular]	
CO ID.	Course Outcome	
BP505T.1	The Pharmaceutical legislations and their implications in the development and marketing of pharmaceuticals.	
BP505T.2	Various Indian pharmaceutical Acts and Laws	
BP505T.3	The regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals	
BP505T.4	The code of ethics during the pharmaceutical practice.	
BP506P In	dustrial Pharmacy-l (BP506P) [ Practical   Regular ]	
CO ID.	Course Outcome	
BP506P.2	Understand and evaluate the concept of preformulation and develop the stable and efficient dosage forms	
BP506P.1	Prepare and evaluate different solid dosage forms such as tablets capsules, pellets etc.	
106P.3	Demonstrate the coating procedure of the tablets with proper understanding of steps involved in the film coating as will as sugar coating	
BDEOGD.4	Practice the aceptic technique while preparing parenteral formulations.	
BP506P.5	Practice the preparation and development of opthamic formulations.	
BP506P.6	Understand Importance of pharmaceutical packaging and able to perform the various tests of packaging containers. (evaluation tests for glass containers)	
3P506P.7	Know the preparation & evaluation parameters for cosmetic preparations.	
3P507P Ph	armacology - II (BP507P) [ Practical   Regular ]	
CO ID.	Course Outcome	
3P507P.1	Demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments	
3P507P.2	Demonstrate the various receptor actions using isolated tissue preparation	
3P507P.3	Understand the mechanism of drug action and its relevance in the treatment of different diseases	
507P.4	Ellaborate correlation of pharmacology with related medical sciences	
3P507P.5	Understand in-vitro pharmacology and different physiological salt soutions.	
P508P Ph	armacognosy and Phytochemistry II (BP508P) [Practical   Regular]	
O ID.	Course Outcome	
P508P1	Explain correct use of various equipments in Pharmacognosy laboratory	
P508P2	Handle simple and compound microscope technically in a correct way	
P508P3	Demonstrate skill of plant material sectioning, staining, mounting & focusing.	
P508P4	Draw morphological & microscopical diagrams & able to label component.	
P508P5	Understand the different cellular structures in powder characteristics of plant organ.	
P508P6	Understand the isolation process, role of solvent and identification of different secondary metabolites.	
P508P7	Understand the use of chromatography in identification of plant material, extracts and isolated compounds.	
P508P8	Understand the organized and unorganized drug and develop skill to identify it by chemical tests.	

Pharmacy \*

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SEM 6	
Quality As	surance (BP606T) [Theory   Regular]
CO ID.	Course Outcome
BP606T.1	Understand the importance of quality in pharmaceutical products
BP606T.2	Understands the regulatory aspects of pharmaceuticals
BP606T.3	Learn the process involved in manufacturing of pharmaceuticals in different section/department and their activities
BP606T.4	Describe various documentation process and concept of calibration and validation
3P606T.5	Know the responsibilities of QA & QC departments
3P606T.6	Understand the scope of quality certifications applicable to pharmaceutical industries
3601T Me	dicinal Chemistry III (RP601T) [Theory   Regular]
CO ID.	Course Outcome
3P601T.1	Know the general aspects of design, history, nomenclature, MOA, therapeutic uses, and recent developments of drugs.
3P601T.2	Understand variety of drug classes and some pharmacological properties.
P601T.3	Know the importance of SAR of drugs.
3P601T.4	Understand the chemistry of drugs with respect to their biological activity
P601T.5	Understand the importance of drug design and different techniques of drug design.
P601T.6	Understand the drug metabolic pathways, adverse effect and therapeutic value of drugs
P601T.7	Understand synthesis of some important class of drugs.
P601T.8	Acquire knowledge on thrust areas for further research.
P602T Pha	armacology III (BP602T) [Theory   Regular ]
O ID.	Course Outcome
P602TI	Explain the mechanism of drug action and its relevance in the treatment of different infectious diseases
P602T2	Illustrate the principles of toxicology
P602T3	Discuss treatment of various poisonings
P602T4	Analyse correlation of pharmacology with related medical sciences.
P602T5	Explain the fundamental knowledge on various aspects (classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications) of drugs acting on respiratory and gastrointestinal system, infectious diseases, immuno-pharmacology
P603T Her	bal Drug Technology (BP603T) [Theory   Regular]
D ID.	Course Outcome
9603T1	Understand the raw material as source of herbal drug from cultivation of herbal drug product.
P603T2	Know the different Indian systems of medicines.
	Understand the concept of nutraceutical and know the benefits of nutraceuticals in different aliments and support the herb drug interaction.  Understand the concept of herbal cosmetic with herbal excipients and herbal formulations.
P603T4	Understand the concept of herbal cosmetic with herbal excipients and herbal formulations.
603T5	Know the WHO and ICH Guidelines of evaluation of herbal drugs

BP609P1 Understand the concept of preliminary phytochemical screening with ability of performing different identification test.  BP609P2 Determine the alcohol content and evaluate the excipients in different herbal preparations.  BP609P3 Preparation and standardization of extract and different herbal dosage forms.	BP603T6	Know the patenting of herbal drug and GMP in herbal drug industry.			
BP604T1	BP604T	Biopharmaceutics and Pharmacokinetics (BP604T) [Theory   Regular]			
Apply the knowledge plasma drug concentration-time data to calculate the pharmacokinetic parameters to describe the kinetics of drug absorption, distribution, metabolism, excretion, elimination  BP604T3 Understand the concepts of bioevaliability and bioequivalence of drug products and their significance. Able to evaluate factors influencing the drug availability that correspondingly influence drug treatment efficacy.  BP604T3 Estimate the Non-linear pharmacokinetic models and its applications.  BP604T5 Estimate the Non-linear pharmacokinetics with special reference to its assessment  BP605TP harmaceutical Biotechnology (BP605T) [Theory [Regular]  CO ID. Course Outcome  BP605T1 Understanding the concept related to enzymes importance of immobilized enzymes in Pharmaceutical Industries, Biosensors and based principal of protein and genetic engineering  BP605T2 Understand the concept related to genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceuticals  Importance of Monoclonal antibodies, Immuneglobulins, blood products and Plasma Substituties in Industries  BP605T2 Understand the virous concepts related to advanced biotechnological techniques like PCR.  BP605T6 Understand the virous concepts related to advanced biotechnology related to immune system.  BP605T7 Understand the virous experiments and various types and terminology related to immune system.  BP607P Understand the advanced techniques used in biotechnology:  BP607P Deform synthesis of medicinally important compounds/ drug intermediates.  BP607P Prome synthesis of medicinally important compounds/ drug intermediates.  BP607P Deform synthesis of medicinally important compounds/ drug intermediates.  BP607P Deform synthesis of medicinally important compounds/ drug intermediates.  BP607P Deform synthesis of medicinally important compounds/ drug intermediates.  BP607P Deform synthesis of medicinally important compounds/ drug intermediates.  BP607P Deform synthesis of medicinally important compounds/ drug interm	CO ID.	Course Outcome			
drug absorption, distribution, metabolism, excettion, elimination  BP604T3   Understand the concepts of bioavailability and bioequivalence of drug products and their significance. Able to evaluate factors influencing the drug valiability that correspondingly influence drug treatment efficacy.  BP604T4   Understand and explain various pharmacokinetic models and its applications.  BP605T5   Estimate the Non-linear pharmacokinetics with special reference to its assessment  BP605T6   Course Outcome  BP605T1   Understanding the concept related to enzymes importance of Immobilized enzymes in Pharmaceutical Industries, Biosensors and basic principal of protein and genetic engineering  BP605T2   Understand the concept related to genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceuticals  BP605T3   Importance of Monoclonal antibodies, Immunoglobulins, blood products and Plasma Substituties in Industries  BP605T6   Understand the various concepts related to acvanced biotechnological technology.  BP605T6   Understand the various concepts related to acvanced biotechnology.  BP605T7   Understand the advanced techniques used in biotechnology.  BP605T8   Understand the advanced techniques used in biotechnology.  BP607P1   Understand the advanced techniques used in biotechnology.  BP607P2   Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P3   Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP607P4   Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P5   Explain the physicochemical properties of drugs using drug design software.  BP607P6   Perform synthesis of medicinally important organic compounds.  BP607P6   Course Outcome  BP608P7   Course Outcome  BP608P8   Defended of the drug on gastrointestinal modility and saline purgative on frog interstine  BP608P9   Search of the drug on gastrointestinal modility and saline purgative on frog interstine  BP608P9	BP604T.1	Understand the basic concepts in biopharmaceutics and pharmacokinetics and their significance.			
influencing the drug availability that correspondingly influence drug treatment efficacy.  BP60414 Understand and explain various pharmacokinetic models and its applications.  BP60515 Estimate the Non-linear pharmacokinetics with special reference to its assessment  BP60517 CO ID. Course Outcome  BP60517 Understand the concept related to enzymes importance of immobilized enzymes in Pharmaceutical Industries, Biosensors and basic principal of protein and genetic engineering  BP60512 Understand the concept related to enzymes importance of immobilized enzymes in Pharmaceutical Industries, Biosensors and basic principal of protein and genetic engineering  BP60513 Importance of Monoclonal antibodies, Immunoglobulins, blood products and Plasma Substituties in Industries  BP60514 Understand the concept related to advanced biotechnology and applications in relation to production of pharmaceuticals importance and use of microorganisms in fermentation technology  BP60515 Understand the various concepts related to advanced biotechnology related to immune system.  BP60516 Understand the advanced techniques used in biotechnology.  BP60717 Understand the advanced techniques used in biotechnology.  BP60718 Ourse Outcome  BP60719 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP60719 Understand use of various equipments and safety measures while working in medicinal pharmacological products and Plasma Substitutions in pharmacological practical products in synthesis of medicinally important organic compounds.  BP60718 Ourse Outcome  BP60719 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP60719 Deform synthesis of medicinally important compounds drug attended tes.  BP60719 Course Outcome	BP604T.2				
BP603T3 Protein and the Non-linear pharmacokinetics with special reference to its assessment  CO ID. Course Outcome  BP603T1 Understanding the concept related to enzymes importance of Immobilized enzymes in Pharmaceutical Industries, Biosensors and basic principal of protein and genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceutical Immobilized enzymes in Pharmaceutical Industries, Biosensors and basic principal of protein and genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceutical Immobilized to genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceutical Importance and use of microorganisms in fermentation technology  BP603T2 Understand the various concepts related to advanced biotechnological techniques like PCR.  BP603T3 Understand the various concepts related to advanced biotechnological techniques like PCR.  BP603T4 Understand the immunity system and various types and terminology related to immune system.  BP603T5 Understand the advanced techniques used in biotechnology.  BP603T6 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP603T6 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP603T6 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP603T6 Draw chemical structures and reactions by Chem draw software.  BP603T6 Poraw Chemical structures and reactions by Chem draw software.  BP603T7 Splain the physicochemical properties of drugs using drug design software.  BP603T7 Splain the physicochemical properties of drugs using drug design software.  BP603T7 Splain the physicochemical properties of drugs using drug design software.  BP603T7 Splain the physicochemical properties of drugs using drug design software.  BP603T7 Splain the physicochemical properties of drugs using drug	BP604T.3				
PRECOST. 2 CO ID. Course Outcome  BP605T. 2 Understanding the concept related to enzymes importance of Immobilized enzymes in Pharmaceutical Industries, Biosensors and basic principal of protein and genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceutical phasic principal of protein and genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceuticals BP605T.2 Understand the concept related to genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceuticals BP605T.5 Understand importance and use of microorganisms in fermentation technology BP605T.5 Understand the various concepts related to advanced biotechnological techniques like PCR. BP605T.6 Understand the immunity system and various types and terminology related to immune system. BP605T.7 Understand the advanced techniques used in biotechnology. BP607P.1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory. BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates. BP607P.2 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds. BP607P.2 BP607P.2 Draw chemical structures and reactions by Chem draw software. BP607P.2 BP607P.3 Draw chemical structures and reactions by Chem draw software. BP607P.5 BP607P.5 Draw chemical structures and reactions by Chem draw software. BP608P.7	BP604T.4	Understand and explain various pharmacokinetic models and its applications.			
CO ID. Course Outcome  BP605T2 Understanding the concept related to enzymes importance of Immobilized enzymes in Pharmaceutical Industries, Biosensors and basic principal of protein and genetic engineering BP605T2 Understand the concept related to genetic ergineering, recombinant DNA technology and applications in relation to production of pharmaceuticals BP605T3 Importance of Monoclonal antibodies, Immunoglobulins, blood products and Plasma Substituties in Industries BP605T4 Understand importance and use of microorganisms in fermentation technology BP605T5 Understand the various concepts related to advanced biotechnological techniques like PCR. BP605T6 Understand the immunity system and various types and terminology related to immune system. BP605T7 Understand the advanced techniques used in biotechnology. BP607P1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory. BP607P2 Perform synthesis of medicinally important compounds/ drug intermediates. BP607P3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds. BP607P3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds. BP607P3 Explain the physicochemical properties of drugs using drug design software. BP607P4 Draw chemical structures and reactions by Chem draw software. BP607P5 Explain the physicochemical properties of drugs using drug design software. BP608P6 Learn dose calculations in pharmacological practical BP608P6 Learn dose calculations in pharmacological practical BP608P6 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine BP608P6 Study the effect of agonist and antagonist BP608P6 Write and learn applications of different biostatistical methods BP608P6 Write and learn applications of different biostatistical methods	BP604T.5	Estimate the Non-linear pharmacokinetics with special reference to its assessment			
BP605T2 Understanding the concept related to enzymes importance of Immobilized enzymes in Pharmaceutical Industries, Biosensors and basic principal of protein and genetic engineering BP605T2 Understand the concept related to genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceuticals BP605T3 Importance of Monoclonal antibodies, Immunoglobulins, blood products and Plasma Substituties in Industries BP605T4 Understand importance and use of microorganisms in fermentation technology Understand the various concepts related to advanced biotechnological techniques like PCR. BP605T5 Understand the immunity system and various types and terminology related to immune system. BP607P1 Understand the advanced techniques used in biotechnology. BP607P2 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory. BP607P2 Perform synthesis of medicinally important compounds/ drug intermediates. BP607P3 Understand use of various equipments and safety measures while working in medicinally important organic compounds. BP607P3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds. BP607P4 Draw chemical structures and reactions by Chem draw software. BP607P5 Explain the physicochemical properties of drugs using drug design software. BP607P5 Explain the physicochemical properties of drugs using drug design software. BP608P6 Learn dose calculations in pharmacological practical BP608P6 Subjut the effect of the drug on gastrointestinal motility and saline purgative on frog interstine BP608P6 Subjuty the effect of agonist and antagonist BP608P7 Write and learn applications of different biostatistical methods BP609P8 Herbal Drug Technology (BP609P) [Practical   Regular ] CC ID. Course Outcome	BP605T P	harmaceutical Biotechnology (BP605T) [Theory  Regular]			
basic principal of protein and genetic engineering  BP605T2 Understand the concept related to genetic engineering, recombinant DNA technology and applications in relation to production of pharmaceuticals  BP605T3 Understand importance and use of microorganisms in fermentation technology  BP605T5 Understand the various concepts related to advanced biotechnological techniques like PCR.  BP605T6 Understand the immunity system and various types and terminology related to immune system.  BP605T7 Understand the advanced techniques used in biotechnology.  BP605T9 Wedicinal chemistry III (BP607P) [ Practical   Regular ]  CO ID. Course Outcome  BP607P2 Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P4 Draw chemical structures and reactions by Chem draw software.  BP607P5 Explain the physicochemical properties of drugs using drug design software.  BP608P0 Explain the physicochemical properties of drugs using drug design software.  BP608P1 Learn dose calculations in pharmacological practical  BP608P2 Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P6 Write and learn applications of different biostatistical methods  BP608P1 brack Outcome  CO ID. Course Outcome	CO ID.	Course Outcome			
pharmaceuticals  BP605T.3 Importance of Monoclonal antibodies, Immuneglobulins, blood products and Plasma Substituties in Industries  BP605T.4 Understand importance and use of microorganisms in fermentation technology  BP605T.5 Understand the various concepts related to advanced biotechnological techniques like PCR.  BP605T.6 Understand the immunity system and various types and terminology related to immune system.  BP605T.7 Understand the advanced techniques used in biotechnology.  BP607P Medicinal chemistry III (BP607P) [ Practical   Regular ]  CO ID. Course Outcome  BP607P.1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P IL Learn dose calculations in pharmacological practical  BP608P.5 Learn dose calculations in pharmacological practical  BP608P.5 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P.5 Write and learn applications of different biostatistical methods  BP608P.6 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP605T.1				
BP605T.4 Understand importance and use of microorganisms in fermentation technology  BP605T.5 Understand the various concepts related to advanced biotechnological techniques like PCR.  BP605T.6 Understand the immunity system and various types and terminology related to immune system.  BP605T.7 Understand the advanced techniques used in biotechnology.  BP607P Medicinal chemistry III (BP607P) [Practical   Regular]  CO ID. Course Outcome  BP607P.1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P.4 Draw chemical structures and reactions by Chem draw software.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P h=macology III (BP608P) [Practical   Regular]  CO ID. Course Outcome  BP608P.2 Determine the anti-ulcer and anti-allergic activity  BP608P.3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P.5 Write and learn applications of different biostatistical methods  BP608P.5 Write and learn applications of different biostatistical methods  BP608P.5 Determine the anti-ulcer and anti-allergic activity  BP608P.5 Write and learn applications of different biostatistical methods  BP609P H=rbal Drug Technology (BP609P) [Practical   Regular]  CO ID. Course Outcome	BP605T.2				
BP605T.5 Understand the various concepts related to advanced biotechnological techniques like PCR. BP605T.6 Understand the immunity system and various types and terminology related to immune system. BP605T.7 Understand the advanced techniques used in biotechnology. BP607P Medicinal chemistry III (BP607P) [ Practical   Regular ]  CO ID. Course Outcome BP607P.1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory. BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates. BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds. BP607P.4 Draw chemical structures and reactions by Chem draw software. BP607P.5 Explain the physicochemical properties of drugs using drug design software. BP608P Draw colucome BP608P Learn dose calculations in pharmacological practical BP608P.2 Determine the anti-ulcer and anti-allergic activity BP608P.3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine BP608P.5 Study the effect of agonist and antagonist BP608P.5 Write and learn applications of different biostatistical methods BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ] CO ID. Course Outcome	BP605T.3	Importance of Monoclonal antibodies, Immunoglobulins, blood products and Plasma Substituties in Industries			
BP605T.6 Understand the immunity system and various types and terminology related to immune system.  BP605T.7 Understand the advanced techniques used in biotechnology.  BP607P Medicinal chemistry III (BP607P) [ Practical   Regular ]  CO ID. Course Outcome  BP607P.1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P.4 Draw chemical structures and reactions by Chem draw software.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608PP Draw colutions  BP608PP Draw does calculations in pharmacological practical  BP608P Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P4 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP605T.4	Understand importance and use of microorganisms in fermentation technology			
BP607F.7 Understand the advanced techniques used in biotechnology.  BP607P Wetlicinal chemistry III (BP607P) [ Practical   Regular ]  CO ID. Course Outcome  BP607P.1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P.4 Draw chemical structures and reactions by Chem draw software.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P beroappell (BP608P) [ Practical   Regular ]  CO ID. Course Outcome  BP608P Determine the anti-ulcer and anti-allergic activity  BP608P Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P Study the effect of agonist and antagonist  BP608P Write and learn applications of different biostatistical methods  BP609P Herothology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP605T.5	Understand the various concepts related to advanced biotechnological techniques like PCR.			
BP607P Medicinal chemistry III (BP607P) [ Practical   Regular ]  CO ID. Course Outcome  BP607P.1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P.4 Draw chemical structures and reactions by Chem draw software.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P b→macology III (BP608P) [ Practical   Regular ]  CO ID. Course Outcome  BP608P1 Learn dose calculations in pharmacological practical  BP608P2 Determine the anti-ulcer and anti-allergic activity  Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP605T.6	Understand the immunity system and various types and terminology related to immune system.			
CO ID. Course Outcome  BP607P.1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P.4 Draw chemical structures and reactions by Chem draw software.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P Pharmacology III (BP608P) [ Practical   Regular ]  CO ID. Course Outcome  BP608P.1 Learn dose calculations in pharmacological practical  BP608P.2 Determine the anti-ulcer and anti-allergic activity  BP608P.3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P.4 Study the effect of agonist and antagonist  BP608P.5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP605T.7	Understand the advanced techniques used in biotechnology.			
BP607P.1 Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.  BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P.4 Draw chemical structures and reactions by Chem draw software.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P Pharmacology III (BP608P) [ Practical   Regular ]  CO ID. Course Outcome  BP608P1 Learn dose calculations in pharmacological practical  BP608P2 Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP607P M	edicinal chemistry III (BP607P) [ Practical   Regular ]			
BP607P.2 Perform synthesis of medicinally important compounds/ drug intermediates.  BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P.4 Draw chemical structures and reactions by Chem draw software.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P Pharmacology III (BP608P) [ Practical   Regular ]  CO ID. Course Outcome  BP608P1 Learn dose calculations in pharmacological practical  BP608P2 Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	CO ID.	Course Outcome			
BP607P.3 Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.  BP607P.4 Draw chemical structures and reactions by Chem draw software.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P Pharmacology III (BP608P) [ Practical   Regular ]  CO ID. Course Outcome  BP608P1 Learn dose calculations in pharmacological practical  BP608P2 Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP607P.1	Understand use of various equipments and safety measures while working in medicinal chemistry laboratory.			
BP607P.4 Draw chemical structures and reactions by Chem draw software.  BP607P.5 Explain the physicochemical properties of drugs using drug design software.  BP608P Pharmacology III (BP608P) [ Practical   Regular ]  CO ID. Course Outcome  BP608P1 Learn dose calculations in pharmacological practical  BP608P2 Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP607P.2	Perform synthesis of medicinally important compounds/ drug intermediates.			
BP608P Pharmacology III (BP608P) [ Practical   Regular ]  CO ID. Course Outcome  BP608P2 Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP607P.3	Understand reaction scheme, mechanism and theory involved in synthesis of medicinally important organic compounds.			
BP608P Pharmacology III (BP608P) [ Practical   Regular ]  CO ID. Course Outcome  BP608P1 Learn dose calculations in pharmacological practical  BP608P2 Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP607P.4	Draw chemical structures and reactions by Chem draw software.			
CO ID. Course Outcome  BP608P1 Learn dose calculations in pharmacological practical  BP608P2 Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP607P.5	Explain the physicochemical properties of drugs using drug design software.			
BP608P1 Learn dose calculations in pharmacological practical BP608P2 Determine the anti-ulcer and anti-allergic activity BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine BP608P4 Study the effect of agonist and antagonist BP608P5 Write and learn applications of different biostatistical methods BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ] CO ID. Course Outcome	BP608P Ph	armacology III (BP608P) [ Practical   Regular ]			
BP608P2 Determine the anti-ulcer and anti-allergic activity  BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	CO ID.	Course Outcome			
BP608P3 Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine  BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP608P1	Learn dose calculations in pharmacological practical			
BP608P4 Study the effect of agonist and antagonist  BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP608P2	Determine the anti-ulcer and anti-allergic activity			
BP608P5 Write and learn applications of different biostatistical methods  BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP608P3	Study the effects of the drug on gastrointestinal motility and saline purgative on frog interstine			
BP609P Herbal Drug Technology (BP609P) [ Practical   Regular ]  CO ID. Course Outcome	BP608P4	Study the effect of agonist and antagonist			
CO ID. Course Outcome	BP608P5	Write and learn applications of different biostatistical methods			
	BP609P He	rbal Drug Technology (BP609P) [ Practical   Regular ]			
BP609P1 Understand the concept of preliminary phytochemical screening with ability of performing different identification test.  BP609P2 Determine the alcohol content and evaluate the excipients in different herbal preparations.  BP609P3 Preparation and standardization of extract and different herbal dosage forms  BP609P4 Study the monograph of analysis of herbal drugs from recent pharmacopoeias.	CO ID.	Course Outcome			
BP609P2 Determine the alcohol content and evaluate the excipients in different herbal preparations.  BP609P3 Preparation and standardization of extract and different herbal dosage forms  BP609P4 Study the monograph of analysis of herbal drugs from recent pharmacopoeias.	BP609P1	Understand the concept of preliminary phytochemical screening with ability of performing different identification test.			
BP609P3 Preparation and standardization of extract and different herbal dosage forms  BP609P4 Study the monograph of analysis of herbal drugs from recent pharmacopoeias.	BP609P2	Determine the alcohol content and evaluate the excipients in different herbal preparations.			
BP609P4 Study the monograph of analysis of herbal drugs from recent pharmacopoeias.	BP609P3	Preparation and standardization of extract and different herbal dosage forms			
	BP609P4	Study the monograph of analysis of herbal drugs from recent pharmacopoeias.			

BP609P5

Determine the different chemical constituents in crude drug.

BP609P6

Determine the excipients of natural origing by chemical tests

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SEM 7	SEM 7		
BP701T Ins	strumental Methods of Analysis (BP70IT) [Theory   Regular]		
CO ID.	Course Outcome		
BP701T.2	Understand and explain the instrumentation of analytical techniques.		
BP701T.3	Understand and explain applications of analytical techniques.		
BP701T.1	Understand and explain the principle involved in analytical techniques.		
BP701T.4	To interpret the given IR spectrum.		
BP702T Inc	dustrial Pharmacy-II (BP702T) [Theory   Regular]		
CO ID.	Course Outcome		
BP702T.1	Know the process of pilot plant and scale up of pharmaceutical dosage forms.		
BP702T.2	Understand the process of technology transfer from lab scale to commercial batch.		
2T.3	Know different Laws and Acts that regulate pharmaceutical industry.		
BP702T.4	Understand the approval process and regulatory requirements for drug products.		
BP702T.5	Know about pharmaceutical product development and product movement from laboratory to market.		
BP703T PI	armacy Practice (DP703T) [Theory   Regular]		
CO ID.	Course Outcome		
BP703T.1	Understand various drug distribution methods in a hospital and pharmaceutical care services.		
BP703T.2	Understand the pharmacy stores management and inventory control.		
BP703T.3	Examine drug therapy of patient through medication chart review and clinical review.		
BP703T.4	Prepare medication history interview and counsel the patients.		
BP703T.5	Determine drug related problems and adverse drug reactions.		
BP703T.6	Interpret selected laboratory results of specific disease states. (as monitoring parameters in therapeutics)		
BP703T.7	Know pharmaceutical care services		
P~703T.8	Do patient counseling in community pharmacy AND Appreciate the concept of Rational drug therapy.		
BP704T No	vel Drug Delivery System (BP704T) [Theory   Regular]		
CO ID.	Course Outcome		
BP704T.1	Understand the fundamental concepts of controlled drug release and prerequisites of drug candidates along with the polymers, their advantages and disadvantages.		
BP704T.2	Knowledge of microencapsulation and gastroretentive like mucosal as well as implantable drug delivery systems		
BP704T.3	Describe the concepts, approaches & formulation of transdermal, ocular, nasopulmonary and intrauterine drug delivery systems.		
BP704T.1.4	Explain the concept & approaches of targeted drug delivery system		
BP705P BP705P Instrumental Methods of Analysis [ Practical   Regular ]			
CO ID.	Course Outcome		
BP705P.1	To understand the different types of instrumental analytical techniques available for quality control of APIs & formulations.		
BP705P.2	Quantification of API by using various instrumental methods of analysis.		
BP705P.3	Determination of functional group in the compound by using IR spectroscopy.		
BP705P.4	Qualitative analysis by analytical techniques		

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#### BP706PS - Pharmaceutics

BP706PS BP706PS - Pharmaceutics [ Pr	ractical	Regular ]
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CO ID.	Course Outcome	
BP706PS.PH1	Describe the overview of subject, present status and future aspects of Pharmaceutics	
BP706PS.PH2	Explain the concept of literature, how literature review perform and its importance of research and development of pharmaceuticals	
BP706PS.PH3	Describe the importance and principals of pharmaceutical industry and their developments.	
BP706PS.PH4	Understand the Regulatory aspects of pharmaceuticals, need, advantages, limitation and importance in pharmaceutical sector.	
BP706PS.PH5	Describe the importance and basic principals of Pharmaceutical Quality Assurance department and Documents review	
BP706PS.PH6	Explain the concept and principal of Drug discovery and development	
BP706PS.PH7	Describe the Formulation research & development of various dosage forms like Tablet , capsules and parenteral formulation	
3P706PS.PH8	Understand the importance, principals and working of various instruments used in pharmaceutics industries.	

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BP706PS - Pharmaceu	tical Chemistry	
BP706PS.PC BP706PS	- Pharmaceutical Chemistry [ Practical   Regular ]	
CO ID.	Course Outcome	
BP706PS.PC.1	Understand Research & Review paper writing methodically and tools.	
BP706PS.PC.2	Know drug design and discovery techniques	
BP706PS.PC.3	Understand various aspects of process chemistry	
BP706PS.PC.4	Prepare drugs / Drug intermediates	
BP706PS.PC.5	Develop TLC of synthesized compcunds	
BP706PS.PC.6	Demonstrate recrystallization of organic compounds	
BP706PS.PC.7	Demonstrate various softwares used in Pharmaceutical Chemistry	
BP706PS.PC.8	Evaluate case studies on infringement of a pharmaceutical patents	

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BP706PS - Pharr	nacognosy
BP706PS BP706	PS - Pharmacognosy [ Practical   Regular ]
CO ID.	Course Outcome
BP706PS.PGYI	understand Referencing and literature review in Pharmacognosy
BP706PS.PGY2	understand extraction, isolation and analysis of Fhytopharmaceuticals
BP706PS.PGY3	understand different Herbal Novel Drug Delivery System with their details
BP706PS.PGY4	study about industries based on herbal drug, $GST$ and loan licensing process, IPR, FSSAI Herbal NDDS, Import and export of herbal drugs and organic farming.
BP706PS.PGY5	study various funding agencies and their schemes
BP706PS.PGY6	perform to extract and isolate, identify adulterants in food and isolate volatile oil from the crude drugs

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Understand the importance and concept of Statistics, Biostatistics, Measures of central tendency, Measures of dispension and Correlation with pharmaceutical examples  Describe the concept and principal about Regression, Probability, Parametric test with pharmaceutical examples.  Understand the importance of Parametric, Non Parametric tests, Research Need for research, Need for design of Experiments, Graphs, Designing the methodology with Pharmaceutical Examples.  BP8017.4 Understand the importance of factorial design, Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BP8017.5 Understand the concept and knowledge regarding Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BP8021 Social and Preventive Pharmacy (BP8021) [Theoryl Regular]  COID. Course Outcome  Understand the concept of health and disease  BP8021.3 Know about Personal hygiene and health  Implementing general principles of prevention and control of diseases  BP8021.5 Explain national health programs, its objectives, functioning and outcome  BP8021.6 Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  OUTION Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  OUTION Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  OUTION Course Outcome  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  BP802515 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BP802511 Understand the design and discovery of lead molecules	SEM 8				
BPBIET2 Understand and explain the instrumentation of analytical techniques.  BPBIET3 Understand and explain applications of analytical techniques.  BPBIET3 Understand and explain applications of analytical techniques.  BPBIET3 Understand and explain the principle involved in analytical techniques.  BPBIET3 Understand the importance and concept of Statistics, Biostatistics, Measures of central tendency, Measures of dispersion and Correlation with pharmaceutical examples.  BPBIET3 Understand the importance of Parametric, Nen Parametric tests, Research Need for research, Need for design of Experiments, Craphs, Designing the methodology with Pharmaceutical Examples.  BPBIET4 Understand the importance of Parametric, Nen Parametric tests, Research Need for research, Need for design of Experiments, Craphs, Designing the methodology with Pharmaceutical Examples.  BPBIET5 Understand the importance of factorial design, Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BPBIET5 Understand the concept and knowledge regarding Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BPBIET5 Understand the concept of health and disease  BPBIET5 Understand the concept of health and disease  BPBIET6 Understand the concept of health and disease  BPBIET7 Understand the concept of health and disease  BPBIET7 Understand the concept of health and control of diseases  BPBIET8 Understand the concept of health and control of diseases  BPBIET8 Understand the concept of health and control of diseases  BPBIET8 Understand the concept of health and control of diseases  BPBIET8 Understand the classification of adverse events / adverse drug reactions.  BPBIET8 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BPBIET8 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BPBIET8	(BP811ET)	Advanced Instrumentation Techniques (BP811ET) [Theory   Elective ]			
BPB0ITS Understand and explain applications of analytical techniques.  BPB0IT Blostatistics and Research Methodology (BPB0IT) [Theory   Regular ]  CO ID. Course Outcome  BPB0ITI Understand the importance and concept of Statistics, Biostatistics, Measures of central tendency, Measures of dispersion and Condidition with pharmaceutical examples.  DITZ Describe the concept and principal about Regression, Probability, Parametric test with pharmaceutical examples.  BBB0ITS Understand the importance of Parametric, Non Parametric tests, Research Need for research, Need for design of Experiments, Craphs, Designing the methodology with Pharmaceutical Examples.  BBB0ITS Understand the importance of Fatorial design, Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BBB0ITS Understand the concept and knowledge regarding Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BBB0ITS Understand the concept of Regular ]  CO ID. Course Outcome  Understand the concept of health and disease  BBB02T3 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BBB02T3 Know about Personal hygiene and health  D02T4 Implementing general principles of prevention and control of diseases  BBB02T5 Explain national health programs, its objectives, functioning and outcome  BBB05ET Pharmacovigiliance (BB005ET) [Theory   Elective ]  CO ID. Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  BBB05ET D Discuss drug and disease classification, drug dictionaries and coding and information resources in pharmacov/gilance  BBB05ET D Discuss drug and disease classification, drug dictionaries and coding and information resources in pharmacov/gilance  BBB05ET D Discuss drug and disease classification, drug dictionaries and coding and information resources in pharmacov/gilance  BBB05ET D Di	CO ID.	Course Outcome			
BPB0TT Blostatistics and Research Methodology (BPB0TT) [Theory   Regular ]  CO ID. Course Outcome  BPB0TT I Understand the importance and concept of Statistics, Biostatistics, Measures of central tendency, Measures of dispersion and Correlation with pharmaceutical examples  DIT2 Describe the concept and principal about Regression, Probability, Parametric test with pharmaceutical examples.  BPB0TT3 Craphs, Designing the methodology with Pharmaceutical Examples.  BPB0TT4 Understand the importance of Parametric, Non Parametric tests, Research Need for research, Need for design of Experiments, Graphs, Designing the methodology with Pharmaceutical Examples.  BPB0TT4 Understand the importance of Parametric, Non Parametric tests, Research Need for research, Need for design of Experiments, Craphs, Designing the methodology with Pharmaceutical Examples.  BPB0TT5 Understand the importance of factorial design, Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BPB0TT5 Understand the concept and knowledge regarding Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BPB0ZT5 Scolal and Preventive Pharmacy (BPB0ZT) [Theory] Regular]  CO ID. Course Outcome  Understand the concept of health and disease  BPB0ZT1 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BPB0ZT3 Know about Personal hygiene and health  Implementing general principles of prevention and control of diseases  BPB0ZT5 Explain national health programs, its objectives, functioning and outcome  BPB0ZT5 Explain the role of national agencies and international bodies in medicines regulation  BPB0ZT5 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BPB0ZT5 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BPB	BP811ET2	Understand and explain the instrumentation of analytical techniques.			
BP801T Blostatistics and Research Methodology (BP801T) [Theory   Regular ]  CO ID. Course Outcome  BP801T3 Understand the importance and concept of Statistics, Biostatistics, Measures of central tendency, Measures of dispersion and Correlation with pharmaceutical examples.  DIT2 Describe the concept and principal about Regression, Probability, Parametric test with pharmaceutical examples.  BP801T3 Understand the importance of Parametric, Non Parametric tests, Research Need for research, Need for design of Experiments, Graphs, Designing the methodology with Pharmaceutical Examples.  BP801T4 Understand the importance of factorial design, Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BP801T5 Understand the concept and knowledge regrating Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BP802T5 Social and Preventive Pharmacy (BP802T) [Theoryl Regular]  CO ID. Course Outcome  Understand the concept of health and disease  BP802T1. Understand the concept of health and disease  BP802T2. Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BP802T3. Know about Personal hygiene and health  Implementing general principles of prevention and control of diseases  BP802T3. Explain national health programs, its objectives, functioning and outcome  BP802T5. Explain national health programs, its objectives functioning and outcome  BP802T6. Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  BP802ET7. Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BP802ET8. Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP802ET9. Describe the genetics related ADR, drug safety evaluation in special population and schedule Y (BP807ET) (Theory) Electi	ВР811ЕТЗ	Understand and explain applications of analytical techniques.			
CO ID. Course Outcome  BP80TT. Understand the importance and concept of Statistics, Biostatistics, Measures of central tendency, Measures of dispersion and Correlation with pharmaceutical examples.  DITZ Describe the concept and principal about Regression, Probability, Parametric tests with pharmaceutical examples.  BP80TT. Understand the importance of Parametric, Nen Parametric tests, Research Need for research, Need for design of Experiments, Craphs, Designing the methodology with Pharmaceutical Examples.  BP80TT. Understand the importance of factorial design, Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BP80TTS. Understand the concept and knowledge regarding Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BP80TTS because and Preventive Pharmacy (BP80TT) [Theory] Regular]  CO ID. Course Outcome  BP80TTL Understand the concept of health and disease  Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BP80TTL Know about Personal hygiene and health Implementing general principles of prevention and control of diseases  BP80TTL Explain national health programs, its objectives, functioning and outcome  BP80TTL Explain the role of national agencies and international bodies in medicines regulation  BP80SET Describe the designand disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BP80SETTL Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  BP80SETT Describe the genetics related ADR, drug safety evaluation in special population and schedule Y BP80TETT Computer Aided Drug Design (BP80TETT) [Theory] Elective]  CO ID. Course Outcome  Understand the design and discovery of lead molecules	BP811ET1	Understand and explain the principle involved in analytical techniques.			
Understand the importance and concept of Statistics, Biostatistics, Measures of central tendency, Measures of dispension and Correlation with pharmaceutical examples  Describe the concept and principal about Regression, Probability, Parametric test with pharmaceutical examples.  Understand the importance of Parametric, Non Parametric tests, Research Need for research, Need for design of Experiments, Graphs, Designing the methodology with Pharmaceutical Examples.  BP8017.4 Understand the importance of factorial design, Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BP8017.5 Understand the concept and knowledge regarding Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BP8021 Social and Preventive Pharmacy (BP8021) [Theoryl Regular]  COID. Course Outcome  Understand the concept of health and disease  BP8021.2 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BP8021.3 Know about Personal hygiene and health  Implementing general principles of prevention and control of diseases  BP8021.5 Explain national health programs, its objectives, functioning and outcome  BP8021.6 Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  OUTIA. Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  Outline the classification of adverse events / adverse drug reactions.  BP802517 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  BP802515 Discuss the place of the International Con	BP801T Bio	statistics and Research Methodology (BP801T) [Theory   Regular]			
Correlation with pharmaceutical examples  OIT.2 Describe the concept and principal about Regression, Probability, Parametric test with pharmaceutical examples.  BR801T.3 Understand the importance of Parametric, Nan Parametric tests, Research Need for research, Need for design of Experiments, Graphs, Designing the methodology with Pharmaceutical Examples.  BR801T.4 Understand the importance of factorial design, Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BR801T.5 Understand the concept and knowledge regreting Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BR802T Social and Preventive Pharmacy (BR802T) [Theory   Regular    COI ID.  Course Outcome  Understand the concept of health and disease  BR802T.2 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BR802T.3 Know about Personal hygiene and health  Implementing general principles of prevention and control of diseases  Explain national health programs, its objectives, functioning and outcome  BR802T.5 Explain national health programs, its objectives, functioning and outcome  BR802T Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  COURSE Outser Outcome  Explain the role of national agencies and international bodies in medicines regulation  Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BR802ET Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BR802ET Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BR802ET Computer Aided Drug Design (BR807ET) [Theory] Elective]  COID. Course Outcome	CO ID.	Course Outcome			
BP80IT.3 Understand the importance of Parametric Non Parametric tests, Research Need for research, Need for design of Experiments, Craphs, Designing the methodology with Pharmaceutical Examples.  BP80IT.4 Understand the importance of factorial design, Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BP80IT.5 Understand the concept and knowledge regarding Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BP80IT.5 Understand the concept and knowledge regarding Design and Analysis of experiments, Factorial Design, Response Surface methodology with pharmaceutical examples  BP80IT.5 Understand the concept of health and disease  BP80IT.5 Understand the concept of health and disease  BP80IT.5 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BP80IT.5 Know about Personal hygiene and health  DOIT.4 Implementing general principles of prevention and control of diseases  BP80IT.5 Explain national health programs, its objectives, functioning and outcome  BP80IT.5 Course Outcome  BP80IT.5 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BP80IT.5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP80IT.5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP80IT.5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP80IT.5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP80IT.5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP80IT.5 Discuss the place of the International Conference on Harmonisa	BP801T.1				
Craphs Designing the methodology with Pharmaceutical Examples.  BP801T.4 Understand the importance of factorial design Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems with pharmaceutical examples  BP801T.5 Understand the concept and knowledge regarding Design and Analysis of experiments Factorial Design Response Surface methodology with pharmaceutical examples  BP802T Social and Preventive Pharmacy (BP802T) [Theory   Regular]  COID. Course Outcome  BP802T.1 Understand the concept of health and disease  BP802T.2 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BP802T.3 Know about Personal hygiene and health  O2T.4 Implementing general principles of prevention and control of diseases  BP802T.5 Explain national health programs, its objectives, functioning and outcome  BP802T Explain her role of national agencies and international bodies in medicines regulation  OUI in the classification of adverse events / adverse drug reactions.  BP805ET Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  BP805ET Discuss the place of the Internationa	O1T.2	Describe the concept and principal about Regression ,Probability ,Parametric test with pharmaceutical examples.			
Clinical Trials Problems with pharmaceutical examples  Understand the concept and knowledge regarding Design and Analysis of experiments, Factorial Design ,Response Surface methodology with pharmaceutical examples  BPB02T Social and Preventive Pharmacy (BPB02T) [Theory] Regular]  CO ID. Course Outcome  BPB02T. Understand the concept of health and disease  BPB02T. Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BPB02T.3 Know about Personal hygiene and health  D02T.4 Implementing general principles of prevention and control of diseases  BPB02T.5 Explain national health programs, its objectives, functioning and outcome  BPB02T Explain national health programs, its objectives functioning and outcome  BPB02T. Outloome  CO ID. Course Outcome  BPB05ET1 Explain the role of national agencies and international bodies in medicines regulation  BPB05ET2 Outline the classification of adverse events / adverse drug reactions.  BPB05ET3 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BPB05ET3 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BPB05ET5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BPB05ET6 Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BPB07ET Computer Aided Drug Design (BPB07ET) [Theory] Elective]  CO ID. Course Outcome	BP801T.3				
methodology with pharmaceutical examples  BPB02T Social and Preventive Pharmacy (BP802T) [Theory   Regular]  CO ID. Course Outcome  BPB02T.1 Understand the concept of health and disease  BPB02T.2 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BPB02T.3 Know about Personal hygiene and health  D02T.4 Implementing general principles of prevention and control of diseases  BPB02T.5 Explain national health programs, its objectives, functioning and outcome  BPB02TB Pharmacov/gilance (BPB05ET) [Theory   Elective]  COID. Course Outcome  BPB05ET Explain the role of national agencies and international bodies in medicines regulation  BPB05ET Discuss drug and disease classification, drug dictionaries and coding and information resources in pharmacov/gilance  BPB05ET Explain the fundamental knowledge on vaccine safety surveillance, pharmacov/gilance methods and communication in pharmacov/gilance  BPB05ET Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BPB05ET Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BPB05ET Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BPB05ET Discuss the place of the International Conference on Harmonisation in special population and schedule Y  BPB07ET Computer Aided Drug Design (BPB07ET) [Theory   Elective ]  BPB07ET Computer Aided Drug Design (BPB07ET) [Theory   Elective ]	BP801T.4				
CO ID. Course Outcome  BP802T.1 Understand the concept of health and disease  BP802T.2 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BP802T.3 Know about Personal hygiene and health  LOZT.4 Implementing general principles of prevention and control of diseases  BP802T.5 Explain national health programs, its objectives, functioning and outcome  BP805ET Pharmacovigilance (BP805ET) [Theory   Elective ]  CO ID. Course Outcome  BP805ET.2 Outline the classification of adverse events / adverse drug reactions.  BP805ET.3 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BP805ET.4 Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  BP805ET.5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP805ET.6 Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BP807ET. Computer Aided Drug Design (BP807ET) [Theory   Elective ]  CO ID. Course Outcome  Understand the design and discovery of lead molecules	BP801T.5				
BP802T.1 Understand the concept of health and disease  BP802T.2 Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BP802T.3 Know about Personal hygiene and health  O2T.4 Implementing general principles of prevention and control of diseases  BP802T.5 Explain national health programs, its objectives, functioning and outcome  BP805ET Pharmacovigilance (BP805ET) [Theory   Elective ]  CO ID. Course Outcome  BP805ET1 Explain the role of national agencies and international bodies in medicines regulation  Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BP805ET3 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BP805ET5 Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  BP805ET5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP805ET6 Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BP807ET Computer Aided Drug Design (BP807ET) [Theory   Elective ]  CO ID. Course Outcome	BP802T So	cial and Preventive Pharmacy (BP802T) [Theory  Regular]			
Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide  BP802T.3 Know about Personal hygiene and health  DOT.4 Implementing general principles of prevention and control of diseases  Explain national health programs, its objectives, functioning and outcome  BP805ET Pharmacovigilance (BP805ET) [Theory   Elective ]  CO ID. Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BP805ET3 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP805ET5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP805ET6 Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BP807ET Computer Aided Drug Design (BP807ET) [Theory  Elective ]  CO ID. Course Outcome  BP807ET1 Understand the design and discovery of lead molecules	CO ID.	Course Outcome			
worldwide  BP802T.3 Know about Personal hygiene and health  102T.4 Implementing general principles of prevention and control of diseases  BP802T.5 Explain national health programs, its objectives, functioning and outcome  BP805ET Pharmacovigilance (BP805ET) [Theory   Elective ]  CO ID. Course Outcome  BP805ET1 Explain the role of national agencies and international bodies in medicines regulation  BP805ET2 Outline the classification of adverse events / adverse drug reactions.  BP805ET3 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BP805ET4 Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  BP805ET5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP805ET6 Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BP807ET Computer Aided Drug Design (BP807ET) [Theory   Elective ]  CO ID. Course Outcome  BP807ET.1 Understand the design and discovery of lead molecules	BP802T.1	Understand the concept of health and disease			
Implementing general principles of prevention and control of diseases  Explain national health programs, its objectives, functioning and outcome  BP805ET Pharmacovigilance (BP805ET) [Theory   Elective ]  COID. Course Outcome  Explain the role of national agencies and international bodies in medicines regulation  Outline the classification of adverse events / adverse drug reactions.  Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP805ET5 Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BP807ET Computer Aided Drug Design (BP807ET) [Theory  Elective ]  Course Outcome  BP807ET.1 Understand the design and discovery of lead molecules	BP802T.2				
Explain national health programs, its objectives, functioning and outcome  3P805ET Pharmacovigilance (BP805ET) [Theory   Elective ]  CO ID. Course Outcome  3P805ET1 Explain the role of national agencies and international bodies in medicines regulation  3P805ET2 Outline the classification of adverse events / adverse drug reactions.  3P805ET3 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  3P805ET4 Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  3P805ET5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  3P805ET6 Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  3P807ET Computer Aided Drug Design (BP807ET) [Theory   Elective ]  3P807ET.1 Understand the design and discovery of lead molecules	BP802T.3	Know about Personal hygiene and health			
BP805ET Pharmacovigilance (BP805ET) [Theory   Elective ]  CO ID. Course Outcome  BP805ETI Explain the role of national agencies and international bodies in medicines regulation  BP805ET2 Outline the classification of adverse events / adverse drug reactions.  BP805ET3 Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  BP805ET4 Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  BP805ET5 Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  BP805ET6 Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BP807ET Computer Aided Drug Design (BP807ET) [Theory  Elective ]  BP807ET.1 Understand the design and discovery of lead molecules	02T.4	Implementing general principles of prevention and control of diseases			
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Outline the classification of adverse events / adverse drug reactions.  Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance  Explain the fundamental knowledge on vaccine safety surveillance, pharmacovigilance methods and communication in pharmacovigilance  Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR and the design and discovery of lead molecules	CO ID.	Course Outcome			
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pharmacovigilance  Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  Describe	BP805ET3	Discuss drug and disease classification, drug dictionaries and coding and Information resources in pharmacovigilance			
BP805ET6 Describe the genetics related ADR, drug safety evaluation in special population and schedule Y  BP807ET Computer Aided Drug Design (BP807ET) [Theory  Elective]  CO ID. Course Outcome  BP807ET.1 Understand the design and discovery of lead molecules	BP805ET4				
	BP805ET5	Discuss the place of the International Conference on Harmonisation (ICH) in medicines regulation			
	BP805ET6	Describe the genetics related ADR, drug safety evaluation in special population and schedule Y			
	BP807ET Co	mputer Aided Drug Design (BP807ET) [Theory  Elective]			
	CO ID.	Course Outcome			
	3P807ET.1	Understand the design and discovery of lead molecules			
	3P807ET.2				

BP807ET.3	Understand and analyse concepts of QSAR and docking
BP807ET.4	Analyse and apply various strategies to develop new drug-like molecules.
BP807ET.5	Use various molecular modeling software to design new drug molecule
BP809ET Co	smetic Science (BP809ET) [ Theory   Elective ]
CO ID.	Course Outcome
BP809ET.1	Knowledge of various regulatory requirement for cosmetic and cosmeceutical products.
BP809ET.2	Understand the concepts of cosmetics; anatomy of skin v/s hair, general excipients used in cosmetics
BP809ET.3	Explain the principles and key building blocks of various skin care, hair care and oral care products etc
BP809ET.4	Discuss the cosmetic evaluation principles and cosmetic problems associate with skin, hair and oral cavity.
BP809ET.5	Explain the concept of cosmeceuticals, history, difference between cosmetics & cosmeceuticals& cosmeceuticals agents
BP812ET DIETARY SUPPLEMENTS AND NUTRACEUTICALS (BP 812 ET) [Theory   Elective]	
CO ID.	Course Outcome
ВР812ЕТ1	Understand the need of supplements by the different group of people to mentain healthy life.
BP812ET2	Understand the outcome of deficiencies in dietary supplements
BP812ET3	Recognize the occurrence and characteristic features of phytochemicals as nutraceuticals
BP812ET4	Understand the concept of free radicals and antioxidants
BP812ET5	Acquaint with the regulatory and commercial aspects of dietary supplements including health claim.

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