

Faculty of Pharmacy



A/P-Kashti, Tal-Shrigonda, Dist-Ahmednagar, Pin- 414701
Approved by PCI, New Delhi, Affiliated to Savitribai Phule Pune University, Pune & MSBTE, Mumbai.
Website – www.parikrama.edu.in, Phone – 9768126772, Email – pariphr@gmail.com

Vision – "To serve with high quality education for development of students as competent pharmacy professionals for the upliftment of sociaeconomic status in rural areas"

2.6 Student Performance and Learning Outcome

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs)

Academic Year 2023-24



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2.6.1: Programme Outcomes (POs) and Course Outcomes (COs)

The institution has clearly defined and displays Programme Outcomes (POs) and Course Outcomes (COs) for all programs on its official website. The attainment of POs and COs is systematically evaluated to ensure alignment with the institution's academic goals and regulatory standards.

Adopting Outcome-Based Education (OBE)

Outcome-Based Education (OBE) is a student-centered approach that focuses on achieving specific competencies by the end of a course or program. Unlike traditional learning, which emphasizes memorization of facts, OBE emphasizes analytical, evaluative, and creative thinking, following Bloom's Taxonomy.

H.S.B.P.V.T., G.O.I., Faculty of Pharmacy, Pune, introduced OBE in the academic year 2019-20, adhering to the guidelines of NAAC and the National Board of Accreditation (NBA). The Program Outcomes (POs) established by the NBA are used as benchmarks, and Course Outcomes (COs) are defined in alignment with the university syllabus.

Developing and Displaying COs and POs

Creation of COs:

- Each course has six clearly defined COs, formulated by the course instructor in consultation with the Head of Department (HOD).
- The COs are designed using Bloom's Taxonomy to ensure a focus on higherorder thinking skills, such as analysis, evaluation, and design.

CO-PO Mapping:

- Each CO is mapped to relevant POs using a scale:
 - 1: Low correlation
 - 2: Medium correlation
 - 3: High correlation
 - -: No correlation
- This mapping highlights how course objectives contribute to overall program goals.

Communication and Accessibility:

- POs and COs are prominently displayed on the institution's official website for transparency.
- Faculty members communicate COs to students at the start of each course to ensure clarity of objectives and expectations.

Evaluation and Attainment

The attainment of POs and COs is measured based on student performance and course complexity. The course instructor, in consultation with the HOD, determines the attainment levels, ensuring that they reflect the difficulty of the course and its objectives.

This structured evaluation process ensures continuous improvement in teaching methods and learning outcomes, aligning the institution's academic framework with global standards.

Benefits of OBE

Through OBE, students achieve not only academic knowledge but also critical competencies that prepare them for professional success. The systematic approach ensures that the learning objectives are measurable and aligned with the desired program outcomes.

By adopting OBE, the institution has enhanced the quality of education, improved stakeholder awareness, and ensured compliance with accreditation standards, fostering a learning environment that prioritizes student success.





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Pharmacy Programme Outcome

PO 1: Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.

PO2: Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.

PO3: Problem analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.

PO4: Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.

PO5: Leadership skills: Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.

PO6: Professional Identity: Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).

PO7: Pharmaceutical Ethics: Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.





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POS: Communication: Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.

PO9: The Pharmacist and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.

PO10: Environment and sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO11: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self- assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.



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Program Educational Objectives (PEOs)

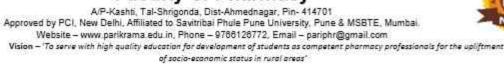
To provide knowledge associated with pharmacy profession. 1.

2 To inculcate professional and ethical attitude with lifelong learning habits in students to develop competent pharmacy professionals.

3. To develop entrepreneurship skills and leadership traits in students to facilitate improvement in health and wellbeing of society.



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B. Pharmacy Academic Year 2023-24 Course Outcomes

First Year B. Pharmacy

	First Semester
	BP101T Human Anatomy and Physiology I: Theory
CO ID.	Course Outcome
BP101T.1	Clarify introduction of human body, the cellular level of organization and tissue level of organization.
BP101T.2	Explain integumentary system, skeletal system and joints.
BP101T.3	Explain composition and function of blood component, formation of haemoglobin, mechanism of blood coagulation, blood grouping and disorders of blood.
BP101T.4	Understand lymphatic system and special sense organs.
BP101T.5	Discuss role of peripheral nervous system.
BP101T.6	Describe cardiovascular system.
	BP102T Pharmaceutical Analysis: Theory
CO ID.	Course Outcome
BP102T.1	Know scope of pharmaceutical analysis and types of errors
BP102T.2	Illustrate acid base titration
BP102T.3	Discuss non aqueous titration
BP102T.4	Summarise different titration methods.
BP102T.5	Estimate about Redox titration.
BP102T.6	Explain different electrochemical methods of analysis.
	BP103T Pharmaceutics I: Theory
CO ID.	Course Outcome
BP103T.1	Describe History, development, different dosage forms, Prescription, Posology in Pharmacy Profession
BP103T.2	Explain Liquid Dosage forms with its Pharmaceutical Calculations
BP103T.3	Discuss on Biphasic and Monophasic dosage forms
BP103T.4	Summarize Pharmaceutical Incompatibility and Suppositories
BP103T.5	Explain Semisolid dosage forms with its Evaluation
BP103T.6	Describe the preparation of dosage forms.
	BP104T Pharmaceutical Inorganic Chemistry: Theory
CO ID.	Course Outcome





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CO ID.	Course Outcome					
	BP107P Human Anatomy and Physiology I: Practical					
BP106T.5	Apply Laplace transform and differential equation in solving chemical kinetics and pharmacokinetic equation					
BP106T.4	Make use of analytical geometry in pharmacy					
BP106T.3	Tell the applications of calculus with differentiation					
BP106T.2	Solve matrices and determinants					
BP106T.1	Explain the theory and application of partial of partial fraction, logarithm, functions, limits and continuity					
CO ID.	Course Outcome					
	BP106RMT Remedial Mathematics: Theory					
BP106RBT.3	understand the basic components of anatomy & physiology animal with special reference to human.					
BP106RBT.2	understand the basic components of anatomy & physiology of plant.					
BP106RBT.1	Explain the classification and salient features of five kingdoms of life.					
со п.	Course Outcome					
	BP106RBT Remedial Biology: Theory					
BP105T.6	Learn advanced techniques like e-mail etiquette.					
BP105T.5	Develop effective communication.					
BP105T.4	Study advanced techniques like listening compression, direct & indirect speech.					
BP105T.3	Recall pronunciations like consonant and vowel sounds.					
BP105T.2 Discuss basic communication skills like asking question, meeting p						
BP105T.1	Illustrate the communication importance.					
CO ID.	Course Outcome					
0.40TH-TABLE (T.15)\$	BP105T Communication Skills: Theory					
BP104T.6	Explain in detail about Radiopharmaceuticals with their applications.					
BP104T.5	Outline medicinal & pharmaceutical importance of various categorized inorganic compounds.					
BP104T.4	Summarize Gastrointestinal agents.					
BP104T.3	Point out major extra intracellular electrolytes & dental products.					
BP104T.2	Know acid, Bases & Buffers.					
BP104T.1	State the sources, types of impurities and methods of preparation of inorganic compounds.					





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BP 107P.1	Memorize handling of compound microscope and study various animal tissues.
BP 107P.2	Summarize the characteristics of different bones.
BP 107P.3	Identify the bleeding, clotting time and blood groups.
BP 107P.4	Analyze the blood cells using hematocytometry.
BP 107P.5	Estimate the haemoglobin concentration, %Hb, oxygen carrying capacity of human blood and blood pressure.
BP 107P.6	Predict the erythrocyte sedimentation rate of human blood and heart rate and pulse rate.
	BP108P Pharmaceutical Analysis: Practical
CO ID.	Course Outcome
BP108P.1	Preparation of various drug like Sodium Hydroxide, Sulphuric Acid/HCL
BP108P.2	Carry out Assay of Different compound like Ammonium Chloride, Sodium benzoate, Sodium Chloride
BP108P.3	Estimate assay of different compound like Cal. gluconate, Hydrogen peroxide, Ferrous sulphate, Copper sulphate
BP108P.4	Standardization of Various Compound like Sodium Thiosulphate, Potassium Permanganate, Ceric Ammonium Sulphate
BP108P.5	Determination of normality by electro-analytical method
BP108P.6	Measurement of refractive index of some samples
	BP109P Pharmaceutics I: Practical
CO ID.	Course Outcome
BP109P.1	Formulate and evaluate various liquid dosage forms
BP109P.2	Formulate and Evaluate Biphasic suspension dosage forms
BP109P.3	Prepare and Evaluate emulsion, gargles and mouthwash dosage forms
BP109P.4	Prepare and evaluate solid dosage forms.
BP109P.5	Formulation and evaluation of suppositories.
BP109P.6	Prepare and evaluate of semisolid dosage forms.
	BP110P Pharmaceutical Inorganic Chemistry: Practical
CO ID.	Course Outcome
BP110P.1	Carry out limit test of following inorganic compounds. Chloride, Sulphate, Iron.
BP110P.2	Evaluate limit test of various ions. Arsenic, Lead, Heavy metals.
BP110P.3	Identify the following inorganic compounds by using various test. Magnesium hydroxide, Ferrous sulphate, Sodium Bicarbonate.
BP110P.4	Apply various test for the identifications of calcium gluconate & copper sulphate.



BP111P.6

Hon. Shri. Babanrao Pachpute Vichardhara Trust's Group of Institutions

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BP110P.5	Use certain test for purity.
BP110P.6	Experiment preparation of different inorganic pharmaceutical compounds
	BP111P Communication Skills: Practical
CO ID.	Course Outcome
BP111P.1	Illustrate the communication importance.
BP111P.2	Discuss basic communication skills like asking question, meeting people.
BP111P.3	Recall pronounciation like consonant and vowel sounds.
BP111P.4	Study advanced techniques like listening comphresion direct & indirect speech.
BP111P.5	Develop effective communication.

Learn advanced techniques like e-mail etiqutte.

	First Year B. Pharmacy Second Semester							
BP201T Human Anatomy and Physiology II: Theory								
со п.	Course Outcome							
BP201T.1	Explain the gross morphology, structure and functions of Nervous system							
BP201T.2	Discuss on digestive system and energetics							
BP201T.3	illustrate anatomy of respiratory system & urinary system							
BP201T.4	Discuss on Endocrine system							
BP201T.5	Understand to genetics							
BP201T.6	Understand the physiology of male and female reproductive organs.							
	BP202T Pharmaceutical Organic Chemistry I: Theory							
CO ID.	Course Outcome							
BP202T.1	Know the basic principles of organic chemistry.							
BP202T.2	Outline the different types of isomerism, Nomenclature, and classes of organic compound.							
BP202T.3	Summarize the Hybridization of Alkanes, Alkenes and stability study of conjugated dienes with their properties.							
BP202T.4	Explain nucleophilic substitution reaction and structure, uses of various alkyl halides.							
BP202T.5	Illustrate various reactions, structures and uses of aldehydes and ketones.							
BP202T.6	Discuss structures, uses, effects of carboxylic acid and aliphatic amines.							



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60 m	BP203T Biochemistry: Theory							
CO ID.	Course Outcome							
BP203T.1	Describe biomolecules and carbohydrates metabolism							
BP203T.2	Illustrate the concept of biological oxidation and bioenergetics							
BP203T.3	Explain metabolism process of lipid							
BP203T.4	Explain metabolism process amino acid							
BP203T.5	Describe nucleic acid metabolism and genetic information transfer							
BP203T.6	Summarize role and important of enzyme in biochemical process							
	BP204T Pathophysiology: Theory							
CO ID.	Course Outcome							
BP204T.1	Explain basic principles of cell injury, adaptation and mechanism involved in process of pain and inflammation.							
BP204T.2	Explain the Pathophysiology of various Diseases of CVS, Respiratory system and renal system.							
BP204T.3	Describe the haematological diseases & pathophysiology of endocrine system.							
BP204T.4	Analyze the pathophysiology of nervous system & gastrointestinal system.							
BP204T.5	Identify Disease of bones and joints.							
BP204T.6	Define Infectious Diseases & Sexually Transmitted Diseases.							
	BP205T Computer Applications in Pharmacy: Theory							
CO ID.	Course Outcome							
BP205T1	Explain different number system.							
BP205T2	Understand different software's.							
BP205T3	Study different types of web technologies.							
BP205T4	Discuss the applications of computer in pharmacy.							
BP205T5	Explain about bioinformatics.							
BP205T6	Outline the data analysis in preclinical development by using computers.							
	BP206T Environmental sciences: Theory							
CO ID.	Course Outcome							
BP206T.1	Explain about different natural resources.							
BP206T.2	Clarify problem association with natural resources.							
BP206T.3	Describe concept and structure of ecosystem.							
BP206T.4	Illustrate function of ecosystem.							
WE TENNE TO BE TO SEE THE	Classify environmental pollution							





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BP206T.6	Explain various problem arises due to pollution							
	BP207P Human Anatomy and Physiology II: Practical							
CO ID.	Course Outcome							
BP207P1	Understand the construction, working, care and handling of instruments, glassware and equipment's required for practicals.							
BP207P2	Perform the haematological tests like blood cell counts, hemoglobin estimation, bleeding/clotting time etc and also record blood pressure, he rate, pulse and respiratory volume							
BP207P3	Explain working pattern of different organs of each system							
BP207P4 Describe the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body.								
BP207P5	Determine the techniques for the identification, counting of various integral components of the body							
BP207P6	To study structural and microscopically aspects various organs of human body							
	BP208P Pharmaceutical Organic Chemistry I: Practical							
CO ID.	Course Outcome							
BP208P.1	Tell about safety measures in an organic laboratory.							
BP208P.2	Demonstrate the different laboratory techniques.							
BP208P.3	Experiment systematic qualitative analysis of unknown organic compound.							
BP208P.4	Apply various test to analyze unknown organic compound.							
BP208P.5	Develop suitable solid derivatives from organic compounds.							
BP208P.6	Show construction of molecular models.							
	BP209P Biochemistry: Practical							
CO ID.	Course Outcome							
BP209P.1	Qualitative analysis of carbohydrates and urine sample							
BP209P.2	Identification test of proteins							
BP209P.3	Determination of blood creatinine and blood sugar							
BP209P.4	Determine serum total cholesterol and saliva amalyse activity							
BP209P.5	Quantitative analysis of reducing sugar and proteins							
BP209P.6	Study the effect of temperature and substrate concentration on salivary amylase activity							
	BP210P Computer Applications in Pharmacy: Practical							
CO ID.	Course Outcome							





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BP210P1	Write the design of particular disease & drug questionaries by using MS- Word
BP210P2	Create HTML web page to show personal information.
BP210P3	Creating of patient database & mailing labels by using MS-Access & MS- Word
BP210P4	Categories patient record, generate report & print of report by using online database
BP210P5	Designing invoice table, storage & retrieval creating & working of quires by online tools.
BP210P6	Exporting tables, queries forms & report to web & XML page.

	Second Year B. Pharmacy Third Semester
	BP301.T Pharmaceutical Organic Chemistry II: Theory
CO ID.	Course Outcome
BP301T.1	Students are able to explain benzene and its derivatives
BP301T.2	Summarize phenols and aromatic amines.
BP301T.3	Discuss stereochemistry.
BP301T.4	Elaborate polynuclear hydrocarbons.
BP301T.5	Recall cycloalkanes
BP301T.6	Describe fats and oils.
	BP302T Physical Pharmaceutics – I: Theory
CO ID.	Course Outcome
BP302T.1	Utilize the knowledge of solubility of drugs in formulation along with raoult's law.
BP302T.2	Explain various physicochemical properties of drug molecules with different properties of state of matter.
BP302T.3	Acquire sufficient knowledge about surface and interfacial tension with its measurement methods
BP302T.4	Outline physicochemical properties, complexation and protein binding of drug molecules.
BP302T.5	Explain the importance of pH, buffer and isotonic solution in pharmaceutical and biological system.
BP302T.6	Utilize the knowledge of solubility of drugs in formulation along with raoult's law.
	BP303T Pharmaceutical Microbiology: Theory
CO ID.	Course Outcome

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BP303.T1	Describe the concept of Pharmaceutical microbiology with history, its applications, importance and scope in pharmaceutical industries.
BP303.T2	Discuss classification, ultrastructure, isolation, preservation, measurement& cultivation of bacteria and raw material nutritional requirement used for culture media.
BP303.T3	Discuss staining techniques & biochemical tests used for identification of bacteria and summarize the importance and implementation of sterilization in pharmaceutical processing and industry.
BP303.T4	Elaborate Fungi and Virus, describe disinfection & sterility testing of pharmaceutical products.
BP303.T5	Explain different microbiological assays & microbiological standardization of Pharmaceuticals.
BP303.T6	Explain microbial spoilage and cell culture technology and its applications in pharmaceutical industries.
	BP304T Pharmaceutical Engineering: Theory
CO ID.	Course Outcome
BP304T.1	Know the concepts of Flow of Fluids
BP304T.2	Understand size reduction and size separation with its instrumental method.
BP304T.3	Explain heat transfer, Evaporation, Distillation with its principle, construction and working.
BP304T.4	Discuss principle, mechanism, construction, working of drying and mixing.
BP304T.5	Elaborate Filtration and Centrifugation method in detail.
BP304T.6	Understand corrosion and its prevention.
	BP305P Pharmaceutical Organic Chemistry II: Practical
CO ID.	Course Outcome
BP305P.1	Demonstration on steam distillation method.
BP305P.2	Carryout saponification value of oil samples.
BP305P.3	Experiments on separation of binary mixture.
BP305P.4	Synthesis of various organic compounds by condensation method
BP305P.5	Synthesis of various organic compounds by furning hood method
BP305P.6	Demonstration on recrystallization of organic compounds.
	BP306P Physical Pharmaceutics – I: Practical
со ш.	Course Outcome
BP306P.1	Determine the Upper consolute temperature & % composition of NaCl in a solution using phenol-water system by CST method.
BP306P.2	Determination the solubility of drug at room temperature, in different solvent and heat of solution
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CO ID.	Course Outcome			
	P105T Communication Skill: Theory (Direct Second Year Students)			
BP308T.6	Determine the rate of crystallization, uniformity index by using double cone blender			
BP308T.5	Illustrate the material and energy requirements for optimizing the pharmaceutical unit processes.			
BP308T.4	Explain the effect of Surface area, thickness, concentration, thickness on rate of evaporation and filtration			
BP308T.3	Interpret results of the experiments conducted.			
BP308T.2	Describe the equipment's used in the manufacture of pharmaceutical product			
BP308T.1	Perform experiments related to unit operation			
со п.	Course Outcome			
	BP308P Pharmaceutical Engineering: Practical			
BP307.P6	Perform microbiological assay and sterility test of Pharmaceutical product			
BP307.P5	Carryout sub culturing of various microorganisms and isolation by streak plat technique and pour plate technique.			
BP307.P4	Evaluate the morphology of bacteria by using Simple, gram and acid-fast staining and motility of bacteria by hanging drop technique.			
BP307.P3	Carryout sterilization of glassware's and prepared nutrient agar and nutrient broth media			
BP307.P2	Carryout the Biochemical test			
BP307.P1	Explain the principle, construction and working of various instruments.			
CO ID.	Course Outcome			
	BP307P Pharmaceutical Microbiology: Practical			
BP306P6	Determination of stability constant and donor acceptor ratio and pKa value by using different method.			
BP306P5	Determination of Partition co- efficient of benzoic acid and iodine in benzene CC14 and water.			
BP306P4	Determination of critical micellar concentration and HLB value of given surfactants			
BP306P.3	Determination of surface tension of given liquids by drop count and drop weight method using ostwalds stalamometer.			



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BP105T.1	Describe the concept of communication along with barriers.
BP105T.2	Illustrate communication perspective and verbal, non-verbal types.
BP105T.3	Adapt basic skill required for style of communication and basic listening skills.
BP105T.4	summarise effective communication with effectively writing skill.
BP105T.5	Develop interview and presentation skills.
BP105T.6	Build confidence & leadership qualities.

	Second Year B. Pharmacy:
	Fourth Semester
	BP401T Pharmaceutical Organic Chemistry III: Theory
CO ID.	Course Outcome
BP401T.1	Explain the stereochemical aspects of organic compounds and stereochemical reactions.
BP401T.2	Describe geometric isomerism
BP401T.3	Describe Heterocyclic chemistry.
BP401T.4	Summarize the chemistry, synthesis, reaction with medicine use of furan pyrrol and thiophene.
BP401T.5	Know the medicinal uses and other applications of organic compounds.
BP401T.6	Illustrate different name reactions.
	BP402T Medicinal Chemistry I: Theory
CO ID.	Course Outcome
BP402T.1	Adapt knowledge of development medicinal chemistry and explain physicochemical properties and drug metabolism.
BP402T.2	Describe drugs acting on autonomic nervous system.
BP402T.3	Explain the chemical classification and SAR of parasympathomimetic and cholinergic blocking agents.
BP402T.4	Describe the classification and SAR of drugs acting on sedative hypnotics, antipsychotics, anticonvulsant and general anaesthetics.
BP402T.5	Determine the SAR of centrally acting analogues and narcotic antagonists.
BP402T.6	Discuss SAR of Various Classes of Drugs
	BP403T Physical Pharmaceutics II: Theory
CO ID.	Course Outcome
BP403T.1	Explain various type, characteristics and properties of colloidal dispersion along with its stability.
BP403T.2	Illustrate fundamentals and applications of rheology in pharmaceutical formulation along with deformation of solid.



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BP403T.3	Explain formulation, evaluation of suspension.			
BP403T.4	Discuss formulation, evaluation and stability of emulsion.			
BP403T.5	Estimate the properties of particles with its determination methods and explain derived properties of powder.			
BP403T.6	Describe chemical kinetics and accelerated stability testing.			
	BP404T Pharmacology I: Theory			
CO ID.	Course Outcome			
BP404T.1	Describe basics of pharmacology, various route of drug administration.			
BP404T.2	Understand pharmacokinetics and pharmacodynamics.			
BP404T.3	Explain adverse drug reaction, drug interaction and process of new drug discovery.			
BP404T.4	Explain pharmacology of drugs acting on peripheral nervous system.			
BP404T.5	Describe neurohumoral transmission in CNS, general anesthetics, Sedative- hypnotics, Anti-epileptics with their classification and pharmacology of drugs.			
BP404T.6	Explain pharmacology of drugs acting on CNS			
	BP405T Pharmacognosy and Phytochemistry I: Theory			
CO ID.	Course Outcome			
BP405T1	Understand the basic concept of Pharmacognosy scope and development of pharmacognosy and discuss the sources and basis of classification and quality control of crude drugs			
BP405T2	Explain cultivation, collection, processing and storage of drugs from natura source of origin and factors affecting cultivation of medicinal plants.			
BP405T3	Summarize the application of plant tissue culture techniques in the production of secondary metabolites and discuss the concept of polyploidy, mutation and hybridization with reference to medicinal plants.			
BP405T4	Explain plant description, morphology, and anatomy along with definition classification, properties and identification tests of secondary metabolites like Alkaloids, Glycosides, Flavonoids, Tannins, Volatile oil and Resins.			
BP405T5	Describe the biological source, chemical nature and uses of primary metabolites like carbohydrates, lipids, proteins, enzymes etc.			
BP405T6	Understand and elaborate the novel medicinal agents of cardiovascular and anti- cancer category from marine sources.			
-	BP406P Medicinal Chemistry I: Practical			
CO ID.	Course Outcome			
BP406P.1	To illustrate synthesis of Benzimdidazole, Benztriazole and Phenytoin			
	Experiment out synthesis of Benzocaine, phenothiazine, Barbiturate ,2,3			



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BP406P.3	carryout assay of Ibuprofen, phenobarbitone &Atropine			
BP406P.4	perform Assay of Aspirin, Furosemide and Chlorpromazine			
BP406P.5	Determine partition coefficient of Benzoic acid between benzene and water.			
BP406P.6	Detect partition coefficient value of Benzoic acid between benzene and water.			
	BP407P Physical Pharmaceutics II: Practical			
CO ID.	Course Outcome			
BP407P.1	Evaluation of paracetamol granules by using aqueous binder.			
BP407P.2	Determine precompression parameter & effect of glidant on angle of repose of given sample.			
BP407P.3	Determine particle size using Microscopic and sieving method.			
BP407P.4	Determine viscosity and percent concentration of liquid by using Ostwalds viscometer			
BP407P.5	Determine the sedimentation value with single and different suspending agent.			
	Determine reaction rate constant and accelerated stability studies of given sample.			

BP408P Pharmacology I: Practical

	DI 1001 I mai macology II I Tactical
CO ID.	Course Outcome
BP408P.1	Adapt knowledge of handling of different laboratory equipment's and animals as per CPCSEA guidelines.
BP408P.2	Demonstrate common laboratory techniques. Blood withdrawal, serum and plasma separation, anaesthetics and euthanasia used for animal studies.
BP408P.3	Evaluate different routes of drugs administration in mice/rats and effect of hepatic microsomal enzyme inducers on the phenobarbitone sleeping time in mice.
BP408P.4	Evaluate effect of drugs on ciliary motility of frog esophagus, rabbit eye and identify effects of skeletal muscle relaxants using rota-rod apparatus.
BP408P.5	Identify effect of drugs on locomotor activity using actophotometer, Anticonvulsant effect of drugs by MES and PTZ method and study stereotype and anti-catatonic activity of drugs on rats/mice.
BP408P.6	Demonstrate anxiolytic activity of drugs using rats/mice and local anaesthetics by different methods.
	BP 409 P Pharmacognosy and Phytochemistry I: Practical
CO ID.	Course Outcome
BP409P1	Analyze the samples of crude drug by physical and chemical characteristics.
BP409P2	Estimate leaf constants viz. stomatal numbers, vein islets numbers and palisade ratio quantitatively.



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BP409P3	Illustrate characteristics of starch grains and calcium oxalate crystals present in crude drugs
BP409P4	Carry out the physical evaluations of the crude drugs.
BP409P5	Integrate length and width of natural fibers.
BP409P6	Determination of swelling and foaming index of crude drugs.

	Third Year B. Pharmacy:
	Fifth Semester
60 m	BP501T Medicinal Chemistry-II: Theory
CO ID.	Course Outcome
BP501T1	Describe Antihistaminic agents.
BP501T2	Explain autacoids.
BP501T3	Write classification, nomenclature, structure activity relationship, mechanism of action, adverse effects, and therapeutic uses of various drugs acting on cardiovascular system
BP501T4	Explain various drugs acting on endocrine system.
BP501T5	Summarize different Antidiabetic agents.
BP501T6	Illustrate local anaesthetics
	BP502T Industrial Pharmacy-I: Theory
CO ID.	Course Outcome
BP502T.1	Explain pre-formulation studies with Physicochemical properties of drug molecule
BP502T.2	Discuss the tablet with coating, Quality control tests and liquid orals
BP502T.3	Know about hard gelatin, soft gelatin and pellets in detail.
BP502T.4	Discuss on parenteral products with container and closures along with opthalmic preparation
BP502T.5	Explain cosmetics and pharmaceutical aerosols
BP502T.6	Explain packaging material Science
	BP503.T Pharmacology – II: Theory
CO ID.	Course Outcome
BP503T.1	Explain the pharmacology of the drugs acting on various Cardiac complications
BP503T.2	Organize the drug used in shock, plasma expander, hematinic and drugs acting as diuretics and antidiuretics
BP503T.3	Summarize the role of autacoids & its related drugs
BP503T.4	Illustrate the role of endocrine hormones and their analogues.
BP503T.5	Describe the Pharmacology of drug acting on endocrine system
BP503T.6	Demonstrate the Bioassay



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	BP504T Pharmacognosy and Phytochemistry II: Theory			
CO ID.	Course Outcome			
BP504T.1	Outline the Metabolic pathways in higher plants and their Biogenetic studies			
BP504T.2	Classify and explain secondary metabolites like alkaloids, glycosides, tannins, volatile oil etc.			
	Demonstrate the steps involved in isolation, identification and analysis of			
BP504T.3	phytoconstituents like terpenoids, glycosides, alkaloids and resins.			
BP504T.4	Understand the industrial production, estimation and utilization of Phytoconstituents			
BP504T.5	Assess the crude drugs by modern methods of extraction, spectroscopy chromatography in the isolation, purification and identification of crude drugs.			
BP504T.6	Utilize non-chromatographic techniques for separation and/ purification of phytoconstituents.			
	BP505T Pharmaceutical Jurisprudence: Theory			
CO ID.	Course Outcome			
BP505T.1	Discuss about the drug and cosmetic act, 1940 and its rules 1945.			
BP505T.2	Discuss in detail about D&C Act (Schedules, Sale, Administration).			
BP505T.3	Explain Pharmacy act-1948, Medicinal & Toilet preparation act-1955, Narcotic & Psychotropic substance act-1985.			
BP505T.4	Discuss about the drug &magic remedies act, Prevention of cruelty to animals act, National pharmaceutical pricing authority.			
BP505T.5	Illustrate Pharmaceutical legislation & Code of Pharmaceutical ethics.			
BP505T.6				
it.	506 P Industrial Pharmacy-I: Practical			
CO ID.	Course Outcome			
BP506P.1	Perform preformulation studies on paracetamol/ Aspirin and other drug			
	Formulate and evaluate paracetamol tablet Aspirin tablet tetracycline capsules			
BP506P.2	calcium Gluconate injection and ascorbic acid injection			
BP506P.3	Perform coating of tablet film coating of tablets and granules			
BP506P.4	Carry out Quality Control test of marketed tablet and capsule			
BP506P.5	Formulate eye drop, eye ointment, cream cold / vanishing cream			
BP506P.6	Evaluate Glass containers			
	BP507.P Pharmacology – II: Practical			
CO ID.	Course Outcome			
BP507P.1	Illustrate the importance of Physiological salt solutions and identify the effect of various drugs on isolated organs of different animals			



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BP507P.2	Demonstrate Dose response relationship, effect of drug on DRC by various bioassay methods						
BP507P.3	Describe methods to categorize PA2 &PD2 value using organs of various animals						
BP507P.4	Relate the effect of Spamogons & Spasmolytic in isolated organs of different animals also learn about various screening models for analgesic and anti- inflammatory						
BP507P.5	Understand the mechanism involved in antiallergic activity and mast cell stabilization effect						
BP507P.6	Explain the case study						
	BP508 P Pharmacognosy and Phytochemistry II: Practical						
CO ID.	Course Outcome						
BP508P.1	Identify and draw the crude drugs for its morphological, histological and powder characteristics and to report the types of adulterants and substitutes present						
BP508P.2	Demonstrate skill of plant material/crude drug sectioning, staining, mounting and focusing						
BP508P.3	Utilize method of extraction and determine phytoconstituents using Thin Layer Chromatographic (TLC) technique						
BP508P.4	Make use of distillation of volatile oils and predict phytoconstituents by TLC						
BP508P.5	Apply Paper chromatography for separation of sugars						
BP508P.6	Analyze unorganized crude drugs by chemical tests						

	Third Year B. Pharmacy:
	Sixth Semester
	BP601T Medicinal Chemistry III: Theory
CO ID.	Course Outcome
BP601T.1	Write classification, nomenclature, structure activity relationship, mechanism of action, adverse effects, and therapeutic uses of various Antibiotics and antimalerial agents.
BP601T.2	Describe Antimycobacterial and Antiviral agents.
BP601T.3	Explain various Anti-Infective agents.
BP60 T.4	Summarize different Anti-neoplastic agents.
BP601T.5	Discuss drug design techniques.
BP601T.6	Draw the scheme of synthesis of different medicinal compounds.
	BP602 T Pharmacology III: Theory
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CO ID.	Course Outcome						
BP602T.1	Explain Pharmacology of the drugs acting on respiratory system						
BP602T.2	understand the pharmacology of drugs acting on gastrointestinal tract.						
BP602T.3	Explain the general principles of chemotherapy, and pharmacology of sulfonamides and antibiotics						
BP602T.4	Describe the chemotherapy of infectious diseases.						
BP602T.5	State the role of chemotherapeutic agents in urinary tract infection, sexually transmitted diseases and immunopharmacology						
BP602T.6	Know the principle of toxicology and chronopharmacology						
	BP603T Herbal Drug Technology: Theory						
CO ID.	Course Outcome						
BP603T1	Describe herbs as raw material, biodynamic agriculture and various systems of medicine.						
BP603T2	Explain nutraceuticals and interactions of herbs with drug and food.						
BP603T3	Illustrate the role of herbal excipients in herbal cosmetics and formulations.						
BP603T4	Evaluation of drugs as per WHO and ICH guidelines						
BP603T5	Explain patenting and regulatory requirements of natural products.						
BP603T5	Summarize the present scope and future prospects of herbal industries and Schedule T						
`	BP604T Biopharmaceutics and Pharmacokinetics: Theory						
CO ID.	Course Outcome						
BP604T1	Describe the process of absorption and distribution along with protein binding.						
BP604T2	Explain the concept of elimination.						
BP604T3	Discuss the concept of Bioavailability and Bioequivalence.						
BP604T.4	Recognize pharmacokinetic parameters.						
BP605T5	Explain multi compartment models.						
BP605T6	Discuss on nonlinear Pharmacokinetics						
	BP605T Pharmaceutical Biotechnology: Theory						
CO ID.	Course Outcome						
BP605T.1	Know concepts of Biotechnology, Enzyme Biotechnology, Biosensors, Protein Engineering, and Microbes.						
BP605T.2	Explain rDNA technology, genetic engineering, and PCR.						
BP605T.3	Explain the importance of biotechnological products along with immunity.						
BP605T.4	Discuss general method of the preparation of vaccines, toxoids, antitoxin, serun immune induced blood derivatives and products.						





BP608P.5

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BP605T.5	Outline the concepts of immunoblotting techniques, microbial transformation, mutation along with microbial genetics.						
BP605T6	Describe fermentation process and blood products.						
	BP606T Quality Assurance: Theory						
CO ID.	Course Outcome						
BP606T1	Describe various concept of Quality Assurance and Quality Management system with respect to regulatory agencies						
BP606T2	Understand the ICH guidelines, QbD, ISO9000 & ISO14000 and NABL accreditation						
BP606T3	Outline the organization with respect with personnel, premises, equipment and raw material requirement.						
BP606T4	Illustrate quality control of packaging material, good laboratory practices and role of CPCSEA						
BP606T5	Explain the importance of complaints and documentation in pharmaceutical industry						
BP606T6	Summarize the concept of calibration, validation procedures and good warehousing practices						
	BP607P Medicinal Chemistry III: Practical						
CO ID.	Course Outcome						
BP607P.1	Carry out synthesis of different drugs and intermediates.						
BP607P.2	Experiment on preparation of different medicinally important compounds by microwave synthesis.						
BP607P.3	Sketch the structures and reactions using Chem draw software.						
BP607P.4	Determine different physicochemical properties.						
BP607P.5	Explain hydrogen bond donors.						
BP607P.6	Discuss hydrogen bond acceptors.						
	BP608P Pharmacology III: Practical						
CO ID.	Course Outcome						
BP608P.1	Illustrate antiulcer activity, gastrointestinal motility and effect of agonist and antagonist on guinea pig ileum.						
BP608P.2	Explain the various serum biochemical parameters by using semi autoanalyzer						
BP608P.3	Know the effect of saline purgative and hypoglycemic effect.						
BP608P.4							

understand the biostastics methods in expermental pharmacology.

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BP608P.6	explain the bioassay methods of acetylcholine, serotonin by three point and four point bioassay method and study the miotics and mydriatic effect on rabbit.					
	BP609 P Herbal Drug Technology: Practical					
CO ID.	Course Outcome					
BP609P.1	Determine various phytochemicals of crude drugs with preliminary screenings.					
BP609P.2	Evaluate natural excipients by their physicochemical tests.					
BP609P.3	Prepare and evaluate various herbal formulations with standardized extract.					
BP609P.4	Prepare and evaluate the formulations as per pharmacopeial requirements					
BP609P.5	Carry out analysis of herbal drugs as per pharmacopoeias					
BP609P.6	Estimate the alkaloid, phenol and aldehyde content from crude drugs					

	Final Year B. Pharmacy:
	Seventh Semester
	BP701 Instrumental Methods of Analysis: Theory
CO ID.	Course Outcome
BP 701 T.1	Discus about UV Visible Spectroscopy and Fluorimeter.
BP 701 T.2	Explain about FTIR.
BP 701 T.4	Illustrate different types of Chromatographic techniques.
BP 701 T.5	Summarise Gas chromatography and HPLC technique.
BP 701 T.6	Justify Ion exchange gel and Gel Chromatography.
BP705T.3	Demonstrate the Flame Photometry, atomic absorption, and Nepheloturbidimerty.
	BP702T Industrial Pharmacy II: Theory
CO ID.	Course Outcome
BP702T. 1	Discuss in detail pilot plant scale up technique in pharmaceutical dosage forms.
BP702T. 2	Explain technology development and transfer in pharmaceutical industry
BP702T. 3	Discuss on regulatory affairs and drug approval system in pharmaceutical industry
BP702T. 4	Describe the approval process and regulatory requirement of drug product.
BP702T. 5	Describe the role and responsibility of regulatory agencies in the approval of drugs
BP702T. 6	Explain quality management system in pharmaceutical industry
	BP703T Pharmacy Practice: Theory
CO ID.	Course Outcome



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BP703T.1	Explain various process carried out in hospital and community pharmacy including adverse drug reactions.						
BP703T.2	Discuss various skills like drug distribution, drug information medication adherence and therapeutic drug monitoring						
BP703T.3	Describe role of pharmacist as counselor in hospital, drug information services education and training programme in the hospital						
BP703T.4	Discuss on about pharmacy and therapeutic committee, prescribed medication order and communication skills						
BP703T.5	Discuss the budget preparation its implementation, clinical pharmacy and over the counter sales						
BP703T.6	Explain the drug store management its inventory control, investigational use and interpretation of clinical laboratory tests						
	BP704T Novel Drug Delivery System: Theory						
CO ID.	Course Outcome						
BP704T.1	Explain Control Drug Delivery System and Polymers with its different properties, applications, formulations in detail.						
BP704T.2	Discuss on Microencapsulation, Mucosal Drug Delivery System and Implantable Drug delivery system in detail.						
BP704T.3	Explain Transdermal, Gastroretentive and Naso-pulmonary drug delivery System.						
BP704T.4	Describe Targeted Drug delivery System.						
BP704T.5	Explain Ocular Drug Delivery System and its application.						
BP704T.6	Discuss on Intrauterine Drug Delivery System.						
	705P Instrumental Methods of Analysis: Practical						
CO ID.	Course Outcome						
BP 705 P.1	Determine lambda Max of Various organic compound						
BP 705 P.3.	Estimate various organic compound by spectrometric and photometric analys						
BP 705 P.4	Separate different mixture by different Chromatic technique & demonstrate of diff instruments.						
BP705P.2	essay of given compound by using uv and chromatometry						
BP705P.5	Demonstrate the HPTLC and FTIR instrument						
BP705P.6	interpret organic compound by IR spectrometer						
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	Final Year B. Pharmacy:							
	Eighth Semester							
	BP801T Biostatistics & Research Methodology: Theory							
CO ID.	Course Outcome							
BP801T1	Explain the term statistics, biostatistics, standard deviation, Frequency distribution, Measures of central tendency, Measures of dispersion and correlation.							
BP801T2	Solve regression, probability, Parametric test.							
BP801T3	Explain Non Parametric tests, introduction to research, Designing methodology Sample size determination and Power of a study, Report writing and presentation of data Protocol.							
	Discuss the Blocking and confounding system for Two-level factorials							
BP801T4	Regression modeling, practical components of Industrial and Clinical Trials Problems.							
BP801T.5	Interpret factorial design.							
BP801T.6	Describe response surface methodology							
	BP802T Social & Preventive Pharmacy: Theory							
CO ID.	Course Outcome							
BP802T.1	Describe sociocultural related to Health, Health education, Hygiene and disease							
BP802T.2	Explain the concept of sociology and its relation with health							
BP802T.3	Illustrate various preventive medicine and prevention carryout for control of various diseases.							
BP802T.4	Describe various national health program with its objectives, functioning and outcome							
BP802T.5	Discuss on national health intervention programs and role of WHO in Indian national program.							
BP802T.6	Explain community services in rural, urban and school Health							
	BP804ET Pharmaceutical Regulatory Science: Theory							
CO ID.	Course Outcome							
BP 804.T.1	Illustrate about new drug discovery and development.							
BP 804.T.2	Explain the regulatory approval process.							
BP 804.T.3	Summarize regulatory authority and agencies.							
BP 804.T.4	Elaborate registration of indian drugs product in overseas market.							
BP 804.T.5	Describe about clinical trials.							
BP 804.T.6	Explain regulatory concept.							
	BP805ET Pharmacovigilance: Theory							



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CO ID.	Course Outcome					
BP805ET.1	805ET.1 Understand the fundamentals of Pharmacovigilance.					
BP805ET.2	3P805ET.2 Discuss the drug, disease classification, and Pharmacovigilance programme.					
BP805ET3 Discuss the information resouces and programme of pharmacovigilance.						
BP805ET.4 Understand the importance of safety surveillance, methods of pharmacovariant and effective communication in different pharmacovigilance sectors.						
BP805ET.5 Remember the ICH guidelines for pharmacovigilance and clinical phase						
BP805ET.6 Know the pharmacogenomics of ADR and distinguish the global pharmacovigilance requirements.						





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M. Pharmacy

Course Outcome Academic Year 2023-24

First Year M. Pharmacy

	Semester I						
MF	PH101T Modern Pharmaceutical Analytical Techniques: Theory						
CO ID.	Course Outcome						
MPH 101T.1	Discus about UV Visible Spectroscopy and Fluorimeter with AAS and flame emission spectroscopy.						
MPH 101T.2	Explain about NMR.						
MPH 101T.3	Demonstrate the mass spectroscopy.						
MPH 101T.4	Illustrate different types of Chromatographic techniques.						
MPH 101T.5	Summarise electrophoresis and x-ray chromatography						
MPH 101T.6	Justify the thermal chromatograph.						
	MPH102T Drug Delivery System: Theory						
CO ID.	Course Outcome						
MPH102T.1	Discuss on sustained release and controlled release						
MPH102T.2	Explain rate-controlled drug delivery system						
MPH102T.3	Describe gastro-retentive drug delivery system						
MPH102T.4	To study ocular drug delivery system						
MPH102T.5	Acquire knowledge of transdermal DDS						
MPH102T.6	Discuss protein peptide delivery and vaccine delivery system						
	MPH103T Modern Pharmaceutics: Theory						
со п.	Course Outcome						
MPH103T.1	Study on pre-formulation concepts.						
MPH103T.2	Knowledge on pharmaceutical validation						
MPH103T.3	Knowledge on cGMP & Industrial Management						
MPH103T.4	Knowledge on compression and compaction						
MPH103T.5	Knowledge on consolidation parameters						
MPH103T.6	Discuss optimization techniques in pharmaceutical formulations						
	MPH 104 T Regulatory Affair: Theory						
CO ID.	Course Outcome						
MPH104T.1	Illustrate about Documentation in Pharmaceutical industry.						
MPH104T.2	Explain the ANDA regulatory approval process, NDA approval process.						
MPH104T.3	Summarize Regulatory requirement for product approval.						
MPH104T.4	Elaborate CMC, post approval regulatory affairs						
MPH104T.5	Describe about Non clinical drug development.						
MPH104T.6	Explain about Clinical trials.						
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CO ID.	MPH 105P Pharmaceutics Practical I: Practical Course Outcome
MPH105P.1	Inspect the simultaneous estimation of Pharmacopoeial compounds by UV Vis spectrophotometer.
MPH105P.2	Perform the experiments based on Chromatography, FTIR and Fluorimetry.
MPH105P.3	Preformulate, formulate and evaluate Sustained release, controlled release, mucoadhesive tablet and transdermal patch
MPH105P.4	Formulate and evaluate osmotically controlled, hydro dynamically balanced drug delivery system.
MPH105P.5	Compare Micromeritics properties of powders and granulation, effect of compressional force, particle size, binders on dissolution of a tablet.
MPH105P.6	Predict the similarity factors by Heckel plot, Higuchi and Peppas Plot.

	M. Pharmacy Second Year									
	Semester II									
	MPH 201T Molecular Pharmaceutics: Theory									
CO ID.	Course Outcome									
5)	Explain Targeted Drug Delivery Systems.									
MPH201T.2	Discuss Types, preparation and evaluation of Nano Particles and Liposomes									
MPH201T.3	Discuss Types, preparation and evaluation of Micro Capsules and Micro Spheres									
MPH201T.4	Explain in details Pulmonary Drug Delivery Systems									
MPH201T.5	Describe Nucleic acid based therapeutic delivery system.									
MPH201T.6	Explain therapeutic antisense molecules and aptamers as drugs of future									
MPI	H202 T Advanced Biopharmaceutics and Pharmacokinetics: Theory									
CO ID.	Course Outcome									
MPH202T.1	Explain absorption from GIT									
MPH202T.2	Discuss on Biopharmaceutical consideration									
MPH202T.3	To study Pharmacokinetics									
MPH202T.4	To Describe pharmacokinetics									
MPH202T.5	To study drug product performance									
MPH202T.6	Study application of pharmacokinetics									



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Website – www.parikrama.edu.in, Phone – 9768128772, Email – pariphr@gmail.com

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CO ID.	MPH203T Computer Aided Drug Development: Theory Course Outcome							
COID.	Course Outcome							
MPH203T.1	explain the history of computers in pharmaceutical research and development							
MPH203T.2	describe the computational modeling of drug dispensition							
MPH203T.3	demonstrate the computer aided formulation development in pharamcy.							
MPH203T.4	elaborate the computer aided biopharmaceutical characteristics.							
MPH203T.5	determine the role of computer in clinical development.							
MPH203T.6	define and summerize concept of artificial intelligenence(AI) and robotics							
_	MPH204T Cosmetic and Cosmeceuticals: Theory							
CO ID.	Course Outcome							
MPH204T.1	Describe regulatory provisions relating to manufacturing offences and penalties.							
MPH204T.2	Explain different biological aspects related to cosmetics.							
MPH204T.3	Describe in detail building blocks for different formulations of cosmeti							
MPH204T.4	Discuss on building blocks for formulation of creams and EU regulations.							
MPH204T.5	Explain in detail design of cosmeceutical products.							
MPH204T.6	Summarize the formulation challenges of herbal cosmetics							
-	MPH205 T Pharmaceutics Practical -II: Practical							
CO ID.	Course Outcome							
MPH205P.1	Inspect the simultaneous estimation of Pharmacopoeial compounds by UV Vi spectrophotometer.							
MPH205P.2	Perform the experiments based on Chromatography , FTIR and Fluorimetry.							
MPH205P.3	Preformulate, formulate and evaluate Sustained release, controlled release, mucoadhesive tablet and transdermal patch							
MPH205P.4	Formulate and Evaluate osmotically controlled, hydro dynamically balanced drug delivery system.							
MPH205P.5	Compare Micromeritics properties of powders and granulation, effect of compressional force, particle size, binders on dissolution of a tablet.							
MPH205P.6	Predict the similarity factors by Heckel plot, Higuchi and Peppas Plot.							
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	M. Pharmacy Second Year									
	Semester III									
MRM301T Research Methodology and Biostatistics: Theory										
CO ID.	Course Outcome									
MRM301T.1	Understand some basic concepts of research and its methodologies.									
MRM301T.2	Outline the importance of review of literature, study design and apply different strategies to eliminate errors/bias in research study									
MRM301T.3	Raise the various statistical methods to solve different types of pharmaceutical problems.									
MRM301T.4	Know the history and ethical values in medical research.									
MRM301T.5	Recall the CPCSEA guidelines for laboratory animal care.									
MRM301T.6	Illustrate the basic principles for medical research combined with medical care.									
	MPH395 Introduction to Constitution: Theory									
CO ID.	Course Outcome									
MPH395.1	To introduce the philosophy of constitution of India to student.									
MPH395.2	To discuss the fundamental rights in details.									
MPH395.3	Explain in detail acquaint them with their freedoms and responsibilities.									
MPH395.4	To understand the directive principle of state policy to the students.									
MPH395.5	Understand and remember the fundamental duties of citizen to the students.									
MPH395.6	Discuss right and duty of citizen to the student.									





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P. Pharman CO PO Mannian of All access

B. Pharmacy CO-PO Mapping of All courses Academic Year 2023-24

				Firs	t Seme	ster					
	BI	P101T	Humar	1 Anate	оту аг	d Phys	siology	I The	ory		1
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP101T.1	3			1		2			1		3
BP101T.2	3	1		1		2		2	2	1	3
BP101T.3	3			2		2		2	2		3
BP101T.4	3	1		2		1		1	2	2	3
BP101T.5	3	2	1	3		2	2	2	1	2	3
BP101T.6	3	1	1	1		2	1	1	2	1	3
Average	3	1.25	1	1.67		1.83	1.5	1.6	1.67	1.5	3
	-	BP1	02T Ph	armac	eutical	Analy	sis: Th	eory			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP102T.1	3	3	1	1	1	1		1	1		3
BP102T.2	3	2	2		2	-					3
BP102T.3	3	2	2		2						3
BP102T.4	3	1	1		1						3
BP102T.5	3	1	2		2						3
BP102T.6	3	1	1	1	1	1		1	1		3
Average	3	1.67	1.5	1	1.5	1		1	1		3
2011		1	BP103	T Phar	maceu	tics I:	Theory	Ż.			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP103T.1	3		2			2			2		3
BP103T.2	3			2		2		2	2	1	3
BP103T.3	3	2		2		2		1	2	1	2
BP103T.4	3	1-	1	2		2	1		1	1	3
BP103T.5	3	1		1		1			2		3
BP103T.6	2			2		2		2	2		3
Average	2.83	1.5	1.5	1.8		1.83	1	1.67	1.83	1	2.83
	BP1	04T Pl	iarmac	eutica	Inorg	anic C	hemist	ry: Th	eory		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP104T.1	3	2	2	2		2	2	1	2	2	3
BP104T.2	3		2	2		2	2	2	2		3
BP104T.3	3	2	2					2	3	1	3
BP104T.4	2	1		2		2	1	2	1		3
BP104T.5	3	2	2		2			2	2		3
BP104T.6	2	2	1	3		3	2	2	1	2	2
Average	2.67	1.8	1.8	2.25	2	2.25	1.75	1.83	1.83	1.67	2.83



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9	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP105T.1	į.	3			3	2		3			3
BP105T.2		2	2		3	2		3			3
BP105T.3		2	2		3	2		3			3
BP105T.4		2	2		3	2		2			3
BP105T.5	l	3			2	2		3			3
BP105T.6		3	2		3	2		3			3
Average		2.5	2		2.83	2		2.83			3
	W	BF	106RI	T Ren	nedial	Biology	y: The	ory			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP106RBT.1	3	2	2	2	1	2.		2	2	2	3
BP106RBT.2	3	2		2	2	1		2		2	3
BP106RBT.3	3	2	1	2		2		1	2	1	3
Average	3	2	1.5	2	1.5	1.67		1.67	2	1.67	3
		BP10	6RMT	Remed	lial Ma	athema	tics: T	heory			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP106T1	1	1	3	1	1	2	2		2	1	2
BP106T2	1	2	3	2	2	1	2		2	2	3
BP106T3	1		3	3	2	2	2	2	2	1	2
BP106T4	1	1	3	1	2	2	2	,	2	2	2
BP106T5	1		3	2		2	2	2	2	2	3
Average	1	1.33	3	1.8	1.75	1.8	2	2	2	1.6	2.4
	BP	107P H	uman	Anator	ny and	Physi	ology I	: Prac	tical		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP107P.1	3	2		2		2			2	200000	3
BP107P.2	3	2		1		3		2	2		3
BP107P.3	3	3	2	3		2	_	3	3	2	3
BP107P.4	3	3	2	2		2		2	2	2	3
BP107P.5	3	2	3	3		3		3	2	2	3
BP107P.6	3	2	2	2		2		2	2	2	3
Average	3	2.33	2.25	2.17		2.33		2.4	2.17	2	3
-		BP10	SP Pha	rmace	utical	Analys	is: Pra	ctical			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP108P.1	3	2	2		2	2		1	2	1	3
BP108P.2	3	2	2		1	1		2	1	13405	3
BP108P.3	3	2	2	1	2	1		2	1		3
BP105P.5	3	2	2	1	1	1		2	1		3
BP108P.4		15.50		1	1	2		1	C-481	1	3
	3	1	2	-				500			
BP108P.4	3	1	2	1	2	1		1	1		3

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Website – www.parikrama.edu.in, Phone – 9766126772, Email – pariphr@gmail.com

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		E	3P109P	Pharr	naceut	ics I: F	ractic	al			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP109P.1	3	2	1	2		2		2	2		3
BP109P.2	3	2		1		2		2	2		3
BP109P.3	3		1	2		1		1	2		3
BP109P.4	3	1		2				2	2	1	3
BP109P.5	3			2		1	1	2	1		3
BP109P.6	3		1	2				2	2	1	3
Average	3	1.67	1	1.83		1.5	1	1.83	1.83	1	3
	BP11	OP Ph	armace	utical	Inorga	nic Ch	emistr	y: Pra	ctical	2222	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP110P.1	3	2		1	2		1	2		1	3
BP110P.2	2	2	2	2	2	1	2	2		2	3
BP110P.3	3	1		2	2		2	2		2	3
BP110P.4	3	2	2	2	3		2	2		2	3
BP110P.5	3	2		2	2	2	2	3	2	1	3
BP110P.6	3	3	3	2	2	-	2	2		2	2
Average	2.83	2	2.33	1.83	2.17	1.5	1.83	2.17	2	1.67	2.83
		BP1	11P C	ommui	nicatio	n Skills	s: Prac	tical		-	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP111P.1	1	3	3	3	3	2		3			3
BP111P.2	2	3	2	3	3	3		3			3
BP111P.3	1	3	3	2	3	2		3			3
BP111P.4	2	3	3	3	3	2		3			3
BP111P.5	1	3	2	2	3	2		3			3
BP111P.6	2	3	3	3	3	2		3			3
Average	1.5	3	2.67	2.67	3	2.17		3			3

				Se	cond S	emeste	r							
	BP201T Human Anatomy and Physiology II: Theory													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11			
BP201T.1	3	2	1			1		2	2		3			
BP201T.2	3	1	2			1		2	2		3			
BP201T.3	3	2	2			2		2	1		3			
BP201T.4	3	3	2			2		2	2		3			
BP201T.5	3	1	1			2		2	2		3			
BP201T.6	3	2	2			1		1	1		3			
Average	3	1.83	1.67			1.5		1.83	1.67	1	3			



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Website – www.parikrama.edu.in, Phone – 9766126772, Email – pariphr@gmail.com

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	-	P202T									
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP202T.1	2		2			2	3	3		2	3
BP202T.2	3	2					2	2			2
BP202T.3	3	2	2	3		1	2	2		2	3
BP202T.4	3	2		2	2		2	2		2	3
BP202T.5	3	2	3			2	2	2		2	3
BP202T.6	3	2				2	2	2		2	3
Average	2.83	2	2.33	2.5	2	1.75	2.17	2.17		2	2.83
			BP	203T I	Biocher	nistry:	Theor	у		20 1	l.
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP203T.1	3	2	2		2	2	2	2			3
BP203T.2	3	2	1		1	1	2	2			3
BP203T.3	3	1	2		2	2	1	2			3
BP203T.4	3	2	1		1	2	2	2			3
BP203T.5	3	2	2		2	2	2	2			3
BP203T.6	3	1	1		1	1	1	2			3
Average	3	1.67	1.5		1.5	1.67	1.67	2			3
			BP2	04T Pa	thophy	siolog	y: The	ory			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP204T.1	3	1	2	2		1	1	2	2		3
BP204T.2	3	1	2	1		1	1	2	2		3
BP204T.3	3	1	2	1		1	1	2	2		3
BP204T.4	3	1	2	1		1	1	2	2		3
BP204T.5	3	1	2	1		1	1	2	2		3
BP204T.6	3	1	2	1		1	1	2	2		3
Average	3	1	2	1.17		1	1	2	2		3
	В	P205T	Comp	uter A	pplicat	ions in	Phari	nacy: 1	Theory		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP205 T1	2	3	3	3	2	3		3	3		3
BP205T2	3	2	2	3	3	2		2	3		3
BP205 T3	2	3	2	2	3	2		2	2		3
BP205 T4	3	2	2	2	3	2		1	2		2
BP205 T5	2	3	2	3	2	2		3	2		2
BP205 T6	2	2	3	3	2	2		2	3		2
Average	2.33	2.5	2.33	2.67	2.5	2.17		2.17	2.5		2.5
		В		Envir	onmen		nces:				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	PO9	PO10	PO11
BP206T.1	1	2	3		2	CONSTRUCT	19846045-1979	1	1	3	2
BP206T.2	1	2	3		2			1	1	3/1	2



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BP206T.3	2	1	2	2	1	1	1	2	2	3	3
BP206T.4	2	1	2	2	1	1	1	2	2	3	3
BP206T.5	2	2.	2	1	2	2	2	2	2	3	3
BP206T.6	2	2	2	1	2	2	2	2	2	3	3
Average	1.67	1.67	2.33	1.5	1.67	1.5	1.5	1.67	1.67	3	2.67
	В	P207P	Huma	n Anat	omy a	nd Phy	siology	II: Pı	actical	bi .	T.
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP207P1	3	2	1		3	3		3	2		3
BP207P2	3	3	1		3	3		3	2		3
BP207P3	3	2	1		2	2		2	1		3
BP207P4	3	2	1		2	3		2	1		3
BP207P5	3	3	1		3	3		2	2		3
BP207P6	3	2	1		2	2		3	2		3
Average	3	2.33	1		2.5	2.67		2.5	1.67		3
	BF	208P I	harm	aceutic	al Org	anic C	hemist	ry I: P	ractica	1	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP208P.1	3	2		1	2		1	2		2	3
BP208P.2	3	2	2	2	2	1	2	2		1	3
BP208P.3	3	2		2	2		2	2		1	3
BP208P.4	3	2	2	2	2		2	2		1	3
BP208P.5	3	2		2	1		2	2		1	3
BP208P.6	3	2	2	2	2		2	2		1	3
Average	3	2	2	1.83	1.83	1	1.83	2		1.17	3
		100	BP2	09P B	iochem	istry:	Practio	al			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP209P.1	3	3	2	2	2	3	2	3	2	2	3
BP209P.2	3	2	1	2	3	3	1	3	3	2	2
BP209P.3	3	1	3	3	2	2	2	2	2	3	3
BP209P.4	3	1	2	3	1	2	2	3	2	2	3
BP209P.5	3	2	1	2	3	2	2	2	1	2	3
BP209P.6	3	2	2	1	2	3	3	1	1	2	3
Average	3	1.83	1.83	2.17	2.17	2.5	2	2.33	1.83	2.17	2.83
	BI	210P	Compu	ter Ap	plicati	ons in	Pharm	acy: P	ractica	1	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP210P1	2	3	3	2	3	2		3		2	3
BP210P2	2	3	2	2	2	2		2		2	3
BP210P3	3	2	3	3	3	3		3		3	2
BP210P4	3	2	3	2	2	3		2		2	3
BP210P5	2	3	2	3	3	2		3		3	2
BP210P6	3	2	3	3	2	3		2	1		3





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Average 2.5 2.5 2.67 2.5 2.5 2.5 2.5 2.5 2.5 2.67

					Year hird Se						
BI	2301.T	PHAR	MACI	EUTIC	AL OF	RGAN	IC CH	EMIST	RY II	: Theor	y
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP301T.1	3	2	2	2		3	2	3	2	3	3
BP301T.2	3	2	2	2		2	2		2	2	3
BP301T.3	3	1	2	1			1	2	2		2
BP301T.4	3	2	2	2		1	1	1	1	2	3
BP301T.5	3	2	1	2		1	1	1	1	2	3
BP301T.6	3	1	1	2		1	2	1		1	3
Average	3	1.67	1.67	1.83		1.6	1.5	1.6	1.6	2	2.83
	В	P302T	PHYS	SICAL	PHAR	MAC	EUTIC	S – I:	Theory	y	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP302T.1	3	2	2	2		2		2	2		3
BP302T.2	3	2	2	2		2		1	2		3
BP302T.3	3	1	2	1		2		2	2		3
BP302T.4	3	2	2	2		1		2	2		3
BP302T.5	3	2	2	2		2		2	1		3
BP302T.6	3	2	1	2		2		2	2		3
Average	3	1.83	1.83	1.83		1.83		1.83	1.83		3
	BP3	03T PI	IARM	ACEU	TICA	L MIC	ROBI	OLOG	Y: The	eory	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP303T.1	3	2	2	3	2	3	1	2	3	2	3
BP303T.2	3	2	1	3		2	2	3	2	3	2
BP303T.3	3	2	2	3		1	2	1	1	2	2
BP303T.4	3	2	1	3	1	2			2	3	3
BP303T.5	3	1	2	3	2	1	2	2	2	2	3
BP303T.6	3	1	2	3		2		2	1	2	2
Average	3	1.67	1.67	3	1.67	1.83	1.75	2	1.83	2.33	2.5
1000	BP	304T I	HAR	MACE	UTICA	L EN	GINEI	RING	: Theo	ry	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP304T1	3	2	2	2	2	2		2	2	1	3
BP304T2	3	2	2	3	2	2		3	2	7/925	3
BP304T3	3	2	1	2	2	1	2	2	2	2	3
BP304T4	3	1	2	1	3	2		2	2		3
BP304T5	3	2	1	2	2	2	2	2	1	12	3





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Website – www.parikrama.edu.in, Phone – 9766126772, Email – pariphr@gmail.com

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BP304T6	3	1	2	3	2	1		2	2		2
Average	3	1.67	1.67	2.17	2.17	1.67	2	2.17	1.83	1.67	2.83
BP	305P F	PHARM	MACE	UTICA	L OR	GANI	C CHE	MIST	RY II:	Practic	al
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	THOUSE DAY	PO9	PO10	PO11
BP305P.1	3	2		1	2		1	2		2	3
BP305P.2	3	2		2	2	1	2	2		2	3
BP305P.3	3	1	2	3	2		2	2		2	3
BP305P.4	3	2		2	2		2	2		2	3
BP305P.5	3	2	2	2	2		2	1		2	3
BP305P.6	3	1	2	1	2	2	1	2		2	3
Average	3	1.67	2	1.83	2	1.5	1.67	1.83		2	3
	В	P306P	PHYS	ICAL :	PHAR	MACE	UTIC	S – I: I	ractic	al	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP306P.1	3	2	3	2	2	2		3	2		3
BP306P.2	3	2	2	1	2	1		3	2		3
BP306P.3	3	1	3	2	2	2		2	2		3
BP306P.4	3	2	3	2	1	2		3	2		3
BP306P.5	3	2	2	2	2	2		3	1		3
BP306P.6	3	2	3	2	2	2		3	2		3
Average	3	1.83	2.67	1.83	1.83	1.83		2.83	1.83		3
	BP30	7P PH	ARM	ACEU:	TICAL	MICE	ROBIC	LOGY	: Prac	tical	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP307P.1	3	2	2	2	2	2		2	2		3
BP307P.2	3	2	2	2	2	1		2	2		3
BP307P.4	3	2	1	2	2	2		2	2		3
BP307P.3	3	2	2	2	2	2		2	1		3
BP307P.5	3	2	2	2	2	2		2	2		3
BP307P.6	3	1	2	2	1	2		2	2		3
Average	3	1.83	1.83	2	1.83	1.83		2	1.83		3
	BPS	308P P	HARM	IACEU	TICA	L ENC	INEE	RING:	Pract	ical	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP308P.1	3	2	3	2	2	2		2	2		3
BP308P.2	2	2	3	2	2	2		2	2		3
BP308P.3	3	2	2	2	3	2		3	2		3
BP308P.4	2	3	1	2	2	1		2	2		3
BP308P.5	3	2	3	3	2	1		3	2		3
BP308P.6	2	3	2	2	2	2		2	3		3
Average	2.5	2.33	2.33	2.17	2.17	1.67		2.33	2.17		3
	0.000	10-10-00-00-0	N. C. S. D. S.	100000000000000000000000000000000000000	munic	10000000	Skill: T	25/03/52/2	600 C C C C C C C C C C C C C C C C C C		- 55
	PO1	PO2	PO3		PO5		PO7	PO8	PO9	PO10	PO11
				100000	100000000000000000000000000000000000000					A	,





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Average	2.5	2	2.83	2	2.83	3
BP105T.6	3	2	3	2	3	3
BP105T.5	3		2	2	3	3
BP105T.4	2	2	3	2	2	3
BP105T.3	2	2	3	2	3	3
BP105T.2	2	2	3	2	3	3
BP105T.1	3		3	2	3	3

			3	Second Fo		B. Pha emeste					
	Bl	P401T	Pharm	aceuti	cal Org	ganic C	hemis	try III:	Theo	ry	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP401T.1	3	2	2	1	2		1	2		2	3
BP401T.3	3	2	2	2	2		2	2		2	3
BP401T.5	3	1	2	2	2	1	2	2		1	3
BP401T.6	3	2	1	2	2		2	2	2	2	3
BP401T.2	3	2	2	2	3		2	2		2	3
BP401T.4	3	2	2	2	1	1	2	2		2	3
Average	3	1.83	1.83	1.83	2	1	1.83	2	2	1.83	3
	100	j	BP4027	Γ Medi	icinal (hemis	try I: 7	Cheory			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP402T.1	3	2	1		1	2		1	2	2	3
BP402T.2	3	2	1		1	2		2	2	1	3.
BP403T.3	3	2	2		1	1		2	2	1	3
BP404T.4	3	2	2	1	2	1		1	1	1	3
BP402T.5	3	2	2	1	2	1		1	1	1	3
BP402T.6	3	2	2	1	2	1		1	1	1	3
Average	3	2	1.67	1	1.5	1.33		1.33	1.5	1.17	3
	E	3P403T	Physi	cal Ph	armace	utics I	I [The	ory re	gular	1	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP403T.1	3	2	1	2	2	2		2	2		3
BP403T.2	3	2	2	2	2	1		2	2	1000	3
BP403T.3	3	2	2	2	_1	2		2	2	X	3

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3	1.83	2	1.83	1.83	1.83		1.83	1.83	1	3
3	1	2	2	2	2		2	2		3
3	2	2	2	2	2		2	1		3
3	2	2	2	1	2		2	2		3
3	2	2	2	2	2		1	2		3
3	2	2	2	2	1		2	2		3
3	2	2	1	2	200,000,000		2	2	arandorada	3
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
-39		(25) (25)	25000		1000000	ics II:	-532	10.000	- 250	
1.33	- 53	1.2555		93.			-33		9860	3
5.55.5			7.000	1.27						3
										3
		1000	-	166	-		- 333	- 55	-	3
5500		2500	1000	10.000	1000		0.50		935-0	3
		10000	1.500	27 4000						3
100-20-1		1500000		- 300cm		107	100			3
POI								-	POIA	PO11
3	NC.	DAGED	TOO SAID	11.25.5	955	T D		30.2.11	1.33	્ર
			3.5	- 2						3
	Z								234	3
2333	_ 8				0.55%			1,227		3
			2					_		3
								2	2	3
55.5				2	10.000					3
389/25/25	PO2	PO3	PO4	BORRESS AND	2000	PO7	PO8	PO9	PO10	PO11
3		72.5			1.8	1.43/201	2	0.000		3
354	_ =	55375	1.550		-	- 8	555			3
3	2	2	557		1	2	2	5000		3
3	1		1		2		2	2		3
3	2	2	2			1	2	3		3
3	2		2		2			2		3
3	1		1		2			1		3
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
		BP4	04T P	harma	cology	I: The	ory			
3	1.83	1.83	1.83	1.83	1.83		2	1.83		3
3	2	2	1	2	2		2	2		3
3	2	2	2	2	2		2	1		3
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2 3 1.83 PO1 PO2 3 1 3 2 3 2 3 1.67 BP405T PO1 PO2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	3 2 2 3 1.83 1.83 PO1 PO2 PO3 3 1 3 2 3 2 2 3 1 3 2 2 3 1 3 2 1 3 2 1 3 1.67 1.67 BP405T Pharm PO1 PO2 PO3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 2 3 3 2	3	3	3	3	3	Note	Note

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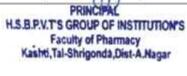
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			BP4	08P Ph	armac	ology l	: Prac	tical			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP408P.1	3			2		2			2	1	3
BP408P.2	3	2		3		2	2		1	2	3
BP408P.3	3	2	2	2		2	2		1	1	3
BP408P.4	3	1	2	2		1	1		2		3
BP408P.5	3	2	1	2		2	2		2	1	3
BP408P.6	3	1	1	1		1	1		1	1	3
Average	3	1.6	1.5	2		1.67	1.6		1.5	1.2	3
	BP	409 P	Pharm	acogn	osy and	l Phyto	chemi	stry I:	Practi	cal	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP409P.1	3	2	2		1	2			1		3
BP409P.2	3		2		1	2					3
BP409P.3	3				3.63	1					3
BP409P.4	3	2	2		1	2			2	2	3
BP409P.5	3					1					3
BP409P.6	3					1					3
Average	3	2	2		1	1.5			1.5	2	3

						B. Phai mester	J. J. J. W. S. S. S. W. W.				
		BP501	T Med	lchem :	Medici	nal Ch	emistr	y-II: T	heory		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP501T.1	2	2		2		2	2	2	2		2
BP501T.2	3	2		2		2	3	2			3
BP501T.3		3	3	3		3	3	3	3		
BP501T.4	3	3	3	3		3	3	3	3		3
BP501T.5	2	2		2		2	2		2		2
BP501T.6	2	3	3	3		3	3	3	3		3
Average	2.4	2.5	3	2.5		2.5	2.67	2.6	2.6		2.6
~			BP502	Γ Indu	strial I	harma	cy-I:	Theory			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP502T.1	3	2	2	3		2		2	2		3
BP502T.2	3	2	2	3		2		2	2		3
BP502T.3	3	2	2	3		2		2	1		3
BP502T.4	3	2	2	2		2		2	2		3
BP502T.5	3	2	2	2		2		2	2		3
BP502T.6	3	1	1	2		1		2	2		3
Average	3	1.83	1.83	2.5		1.83		2	1.83	1	3
			BP50	3.T Ph	armac	ology -	II: Th	eory	1	1	





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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP503T.1	3	2	2	1		2	2		2		3
BP503T.2	3	2	1	2		1	2		1		3
BP503T.3	3	1	2	2		1	2		1		3
BP503T.4	3	2	1	1		1	1		2		3
BP503T.5	3	1	1	1		2	1		2		3
BP503T.6	3	2	1	2		1	1		2		3
Average	3	1.67	1.33	1.5		1.33	1.5		1.67		3
	Bl	P504T	Pharm	acogn	sy and	Phyto	chemi	stry II:	Theo	у	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP504T.1	3					2					3
BP504T.2	3	2			2	2			2		3
BP504T.3	3	3	2	3	3	2			2	2	3
BP504T.4	3	3	2	2	2	2			2	2	3
BP504T.5	3	3	2	3	2	2			2		3
BP504T.6	3	2		2							3
Average	3	2.6	2	2.5	2.25	2			2	2	3
		BP5	05T Ph	armac	eutical	Jurisp	ruden	ce: Th	eory		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP505T.1	3		1	1	1	2	3		3	1	2
BP505T.2	3		1	1	1	2	3	1	3		2
BP505T.3	3	2	2	2		3	3	2	3	2	1
BP505T.4	3	1	1	2	3	2	3	1	3	2	1
BP505T.5	3	2			3	3	3	2	3		2
BP505T.6	3	2	3	2	3	3	3	3	3		3
Average	3	1.75	1.60	1.60	2.20	2.50	3.00	1.80	3.00	1.67	1.83
			506 P	Índust	rial Ph	armacy	y-I: Pr	actical			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP506P.1	3	2	2	3		2		2	2		3
BP506P.2	3	2	2	2		2		2	1		3
BP506P.3	3	1	2	1		2		2	2		3
BP506P.4	3	3	1	2		2		2	2		3
BP506P.5	3	2	2	2		2		1	2		3
BP506P.6	3	1	2	2		2		2	2		3
Average	3	1.83	1.83	2		2		1.83	1.83		3
			BP50	P Ph	armaco	logy -	II: Pra	ctical			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP507P.1	3	2	2	3	POS-GOMENIA	2	3	(CALLESCEN)	2	ACCORDING TO MICH.	3
	- 23/	2	2	3.5			33		2		3
BP507P.2	3	_ Z	- 2	3		2	3		_ Z		3





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BP507P.4	3	2	2	3		2	3		2		3
BP507P.5	3	2	2	3		2	3		2		3
BP507P.6	3	2	2	3		2	3		2		3
Average	3	2	2	3		2	3		2		3
	BP	508P F	harma	cogno	sy and	Phyto	chemis	try II:	Practio	cal	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP508P.1	3	2		2		2			2	2	3
BP508P.2	3	2		2						2	3
BP508P.3	3	2	2	3		2			2	2	3
BP508P.4	3	2		2					2		3
BP508P.5	3			2							3
BP508P.6	3	2	2						2	2	3
Average	3	2	2	2.2		2			2	2	3

					Year I ixth Se						
		В	P601 T	Medi	cinal C	hemist	ry III:	Theor	у		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP601T.1	3	2	1	3		2	1	2	1		3
BP601T.2	2										2
BP601T.3	1	1	2	2		2	2	1	2		1
BP601T.4	3										2
BP601T.5	2	2	1	3		1		2			3
BP601T.6	3	1	2	1		2	1	1	1		2
Average	2.33	1.5	1.5	2.25		1.75	1.33	1.5	1.33		2.17
			BP60	2 T PI	iarmac	ology	III: Th	eory		-	-
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP602T.1	3	2	1	2		1	3		1		3
BP602T.2	3	2	1	1		1	2		1		3
BP602T.3	3	2	1	2		1	2		2		3
BP602T.4	3	2	1	1		1	1		2		3
BP602T.5	3	2	1	1		1	2		2		3
BP602T.6	3	2	1	1		1	1		2		3
Average	3	2	1	1.33		1	1.83		1.67		3
		B	P603 T	Herba	al Drug	Techi	ology:	Theor	ry		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP603T1	3	1	1			2			3	2	3
BP603T2	3	1	2			2		1	3	12	3





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BP603T3	3	2	1	2		3		1	3	2	3
BP603T4	3	2	2	2		2		2	2	2	3
BP603T5	3	1	2			2		2	2	1	3
BP603T6	3	2	2	2		3		1	2	2	3
Average	3	1.5	1.67	2		2.33		1.4	2.5	1.83	3
	BP	604T E	Biopha	rmaceı	itics an	d Pha	rmacol	cinetic	s: The	ory	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP604T.1	3	2	1			2		2	2		3
BP604T.2	3	2	1			2		1	2		3
BP604T.3	3	2	1			1		2	2		3
BP604T.4	3	1	1			2		2	2		3
BP604T.5	3	2	1			1		1	2		3
BP604T.6	3	1	1			1		2	2		3
Average	3	1.67	1			1.5		1.67	2		3
		BP60	5 T PI	iarma	eutica	l Biote	chnolo	gy: Th	eory		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP605T.1	3	3	2	1	3	3	2	2	3	2	3
BP605T.2	2	2	3	2	2	3	3	3	2	2	2
BP605T.3	3	3	3	3	3	2	3	2	3	3	3
BP605T.4	3	3	3	2	1	3	2	2	3	2	2
BP605T.5	3	2	2	3	2	2	1	1	2	2	3
BP605T.6	3	2	3	2	2	2	2	2	2	3	2
Average	2.83	2.5	2.67	2.17	2.17	2.5	2.17	2	2.5	2.33	2.5
**************************************		-	BP60	6T Qu	ality A	ssurai	ice: Th	eory	3.000		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP606T.1	3	2	2		3	2	2		2		3
BP606T.2	3	2	2	3	3	2	3		3		3
BP606T.3	3	2	3	-		3		2	2		3
BP606T.4	3	2	2	3		2	2	2	3	2	3
BP606T.5	3	3	3			3	2	3	2		3
BP606T.6	3	2		3		2	3	2	3		3
Average	3	2.17	2.4	3	3	2.33	2.4	2.25	2.5	2	3
		BI	607 P	Medic	inal Cl	emist	y III:	Practio	al		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP607P.1	3	2	2	2	1	2	1	2	2	2	1
BP607P.2	2	1	1	2		1		1	1	1	3
BP607P3	1				1						
DD (0.5D 4	2	1	1	1		2	2	1	1	1	3
BP607P.4	1	1		1		1		2	1	2	1
BP607P.5	1										



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Website – www.parikrama.edu.in, Phone – 9766126772, Email – pariphr@gmail.com

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Average	1.83	1.4	1.25	1.6	1.33	1.4	1.33	1.6	1.2	1.6	1.8
			BP60	8P Pha	rmaco	logy Il	I: Pra	ctical			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP608P.1	3	2	2	2		1	2		2		3
BP608P.2	3	2	2	2		1	2		2		3
BP608P.3	3	2	2	2		1	2		2		3
BP608P.4	3	2	2	2		1	2		2		3
BP608P.5	3	2	2	2		1	2		2		3
BP608P.6	3	2	2	2		1	2		2		3
Average	3	2	2	2		1	2		2		3
		BP	609 P	Herbal	Drug	Techn	ology:	Practio	al		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP609P1	3	2	2			2			2	2	3
BP609P2	3	2	2			2			2	2	3
BP609P3	3	3	2	2		2			3	2	3
BP609P4	3	3	3	2		2			2	2	3
BP609P5	3	2	2	2		2			2	2	3
BP609P6	3	2	2	3		2			2	2	3
Average	3	2.33	2.17	2.25		2			2.17	2	3





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of socio-economic status in rural areas"

					Year B		macy				
					Semest				Market (191		
	DO1	-	-	Principle of the Parket	nl Meth	A series of the	The state of the s	-	Andrew Street, Square, or other Persons.	DO10	DO11
DD50177.1	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP701T.1	3	3	3	3		3	-	3		_	3
BP701T.2	3	3	3	3		3		3			3
BP705T.3	3	3	3	3		3		3	-		3
BP701T.4	2	2	1	3		1		2			2
BP701T.5	3	3	3	3		3		3			3
BP701T.6	2	2	2	2		2		2			2
Average	2.7	2.67	2.5	2.83		2.5		2.67			2.67
	T				trial P					1	f
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP702T.1	3	2	2	3		2		3	2		3
BP702T.2	3	2	2	3		2		3	2		3
BP702T.3	3	2	2	2		2		3	2		3
BP702T.4	3	3	2	2		2		3	2		3
BP702T.5	3	3	2	2		2		3	2		3
BP702T.6	3	2	2	2		2		3	2		3
Average	3	2.33	2	2.33		2		3	2		3
		V/	BP703	3T Pha	rmacy	Practi	ce: Th	eory			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP703T.1	3		2	2	2	1		2	2		. 3
BP703T.2	3		2	1	2	2	2	2	2		3
BP703T.3	3	2	2	2	2	2	2	2	1		3
BP703T.4	3		2	2	1	2		2	2		3
BP703T.5	3	2	1	2	2	2		2	2		3
BP703T.6	3	1	2	2	2	2		1	2		3
Average	3		2	2.5	2.83	2.83	2.5	2.33	2.5		3
97		BP7	04T N	ovel D	rug De	livery	System	: Theo	ry		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP704T.1	3	2	2	2	2	2		2	2		3
BP704T.2	3	1	1	2	1	2		2	2		3
BP704T.3	3	2	2	2	2	1		2	1		3
BP704T.4	3	2	1	2	1	2		2	2		3
BP704T.5	3	2	2	2	2	2		2	1		3
BP704T.6	3	2	2	1	1	2		1	2		3
Average	3	1.83	1.67	1.83	1.5	1.83		1.83	1.67		3
2001111000000 0 011		705P	Instru	nental	Metho	ds of A	nalysi	s: Prac	tical		100
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP705P.1	3	2	2	2	2	2		1			3
BP705P.3.	3	2	2	3	2	1		2			3
BP705P.4	3	1	2 John Market		2	2		1	X	1	3

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Average	3	1.5	2	1.83	1.67	1.83	1.67	3
BP705P.6	3	1	3	1	2	2	1	3
BP705P.5	3	1	2	2	1	2	3	3
BP705P.2	3	2	1	2	1	2	2	3

			I	inal Y			асу				
					mester	11100100000					
	1	-	-	stics &	_		Printer and the last of the la		1	T	s Fallences
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP801T1	3	2	2	2	1	2		2			3
BPS01T2	3	1	2	2	2	2		2			3
BP801T3	3	2	2	1	2	2		2			3
BP801T4	3	2	2	2	2	1		2			3
BP801T.5	3	2	2	2	2	2		1			3
BP801T.6	3	2	2	2	2	2		2			3
Average	3	1.83	2	1.83	1.83	1.83		1.83			3
	71	BP802	T Soci	al & P	revent	ive Pha	ırmacy	: Theo	ry		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP802T.1	3	2	1		2	3	2	3	2	2	3
BP802T.2	3	1	1		2	2	1	2	1	1	3
BP802T.3	3	2	2	1	3	3	2	3	2	1	3
BP802T.4	3	1	1		2	2	2	2	1	1	3
BP802T.5	3	2	2		2	3	2	2	3	1	3
BP802T.6	3	2	2	1	3	3	3	3	2	2	3
Average	3	1.67	1.5	1	2.33	2.67	2	2.5	1.83	1.33	3
	BP	804ET	Phart	naceut	ical Re	gulato	ry Scie	nce: T	heory		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP804T.1	3	2	2		1	2	2	2	2		3
BP804T.2	3	2	1		2	2	1	2	2		3
BP804T.3	3	1	2		2	2	2	1	2		3
BP804T.4	3	2	2		2	1	2	2	2		3
BP804T.5	3	2	2		2	2	2	1	2		3
BP804T.6	3	2	2		2	2	2	2	1		3
Average	3	1.83	1.83		1.83	1.83	1.83	1.67	1.83		3
		E		T Pha							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	PO9	PO10	PO11
BP805ET.1	3	2	2	1	2	2		2	2		3
BP805ET.2	3	2	2	2	1	2	2	2	2		3
BP805ET.4	3	2	2	2	2	2		1	2		3
BP805ET.5	3	2	2	2	2	1	2	2	1		3
BP805ET.6	3	2	1	2	2	2		2	2		3
BP805ET3	3	1	2	2	2	2		2	2		3
Average	3	1.83	1.83		1.83	1.83	2	1.83	1.83	1	3

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Faculty of Pharmacy





M. Pharmacy CO-PO Mapping of All courses

Academic Year 2023-24

			F		ar M. l nester		асу				
MP	H1017	Mode	rn Ph		utical		ical Te	chniqu	ies: Th	eory	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPH101T.1	3	2	2	3	2	2		2			2
MPH101T.2	2	3	2	3	2	2		2			2
MPH101T.4	3	2	3	3	1	3		2			3
MPH101T.5	3	2	2	3	2	2		3			2
MPH101T.6	2	3	3	2	2	2		2			3
MPH101T.3	2	3	2	2	1	3		2			2
Average	2.5	2.5	2.33	2.67	1.67	2.33		2.17			2.33
		MP	H102T	Drug	Delive	ry Syst	em: Tl	ieory			
	POl	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1
MPH102T.1	3	2	2		3	3	1	3	2	2	3
MPH102T.2	2	3	3	2		2	2	2	2	3	2
MPH102T.3	3	2	2	3	1	3	3	2	3	2	3
MPH102T.4	2	3	3	2	2	2	1	3	1	1	3
MPH102T.5	2	3	2	2	3	3	2	2	2	2	3
Average	2.4	2.6	2.4	2.25	2.25	2.6	1.8	2.4	2	2	2.8
		MPE	I 103T	Mode	rn Pha	rmacei	ıtics: T	heory			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1
MPH103T.1	3	2	2	2	1	2		2	2		3
MPH103T.2	3	2	2	2	2	1		2	2		3
MPH103T.3	3	1	2	2	2	2		2	2		3
MPH103T.4	3	2	1	2	1	2		2	2		3
MPH103T.5	3	2	2	2	2	2		2	1		3
MPH103T.6	3	2	2	1	2	2		2	2		3
Average	3	1.83	1.83	1.83	1.67	1.83		2	1.83		3



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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPH104T.1	3	3	2	2	2	1	2	2	2	1	3
MPH104T.2	3	3	1	1	2		1	2	2		3
MPH104T.3	3	1	2	2	1	1	2	2	1	2	3
MPH104T.4	3	3	2	2	2		2	2	2		3
MPH104T.5	3	3	2	2	2	1	2	1	2	2	3
MPH104T.6	3	3	3	2	2	2	1	2	2	2	
Average	3	2.67	2	1.83	1.83	1.25	1.67	1.83	1.83	1.75	3
		MPH1	05P PI	narma	eutics	Practi	cal I: F	ractic	al		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPH105P.1	3		2		3	2		3	3	3	3
MPH105P.2	2	3	2		2	3		2	2	2	3
MPH105P.3	3		3		3	3		3	1	2	2
MPH105P.4	3	3	3		3	2		2	3	3	3
MPH105P.5	2	2	3		2	3		1	2	3	3
MPH105P.6	3	3	3		2	1		2	3	1	3
Average	2.67	2.75	2.67		2.5	2.33		2.17	2.33	2.33	2.83

			M	. Phar	macy l	First Y	ear				
				Sem	ester S	econd					
		MPH	201T N	Molecu	lar Ph	armace	eutics:	Theor	у		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPH201T.1	3	2	2	2	2	1		2	1		3
MPH201T.2	3	2	2	2	1	2		2	2		3
MPH201T.3	3	2	2	2	2	2		1	2		3
MPH201T.4	3	1	2	2	2	2		2	2		3
MPH201T.5	3	2	2	1	2	2		2	2		3
MPH201T.6	3	2	1	2	2	2		2	2	1	3



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Average	3	1.83	1.83	1.83	1.83	1.83		1.83	1.83		3
MPH	202T A	dvanc	ed Bio	pharm	aceutic	s and	Pharm	acokin	etics:	Theory	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1
MPH202T.1	2	3	3			3		2	3		3
MPH202T.2	3	3	2			3		3	2		Š
MPH202T.3	3	3	3			2		1	3		1
MPH202T.4	2	3	3			3		1	3		3
MPH202T.5	2	3	3			2		2	3		3
MPH202T.6	2	3	3			3		2	3		3
Average	2.33	3	2.83			2.67		1.83	2.83		2.6
	MPI	1203T	Comp	uter Ai	ded D	rug De	velopn	ent: T	heory		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPH203T.1	2	2	2	1	1	2	1				2
MPH203T.2	3	2	3	2	1	3	1				2
MPH203T.3	2	3	2	3	1	3					Š
MPH203T.4	2	3	2	3	2	3					9
MPH203T.5	3	2	2	2	2	2	2				3
MPH203T.6	2	2	3	3	2	2	1				3
Average	2.33	2.33	2.33	2.33	1.5	2.5	1.25				2.6
	N	IPH20	4T Co	smetic	and C	osmece	uticals	: Theo	ry		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MPH204T.1	3	1	3		2	3		3	2	3	3
MPH204T.2	2	2	2		3	2		2	3	2	2
MPH204T.3	1	2	3		2	3		2	3	2	1
MPH204T.4	2	3	2		3	2		3	2	3	2
MPH204T.5	3	2	1		2	2		2	2	3	2
MPH204T.6	2	1	2		2	3		3	3	2	9
Average	2.17	1.83	2.17		2.33	2.5		2.5	2.5	2.5	2.17
	1	IPH20	5P Ph	armac	eutics I	ractic	al -II:	Practio	al		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11

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Average	2.33	2.33	2.5	2.33	2.17	2.33	2.5	2.33	2.83
MPH205P.6	2	1	3	3	3	1	3	3	3
MPH205P.5	2	3	2	2	2	3	2	2	3
MPH205P.4	3	3	2	1	2	3	3	2	3
MPH205P.3	2	2	2	3	1	2	2	2	3
MPH205P.2	2	2	3	2	3	2	2	2	3

			М.		iacy Se ester T	cond Y	l'ear				
	F	Researc	h Met	hodolo	gy and	Biosta	ntistics	Theo	ry		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
MRM301T.1	3	3	3	2	2	2	2		2		3
MRM301T.2	3	2	2	2	2	2	2	2	2		2
MRM301T.3	3	1	3	3	2	2					- 3
MRM301T.4	3				2	1			1		2
MRM301T.5	3	2			2	2	2		2	2	3
MRM301T.6	3		1	1		2			1		3
Average	3	2	2.25	2	2	1.83	2	2	1.6	2	2
		мрн3	95 Inti	roducti	on to (Constit	ution:	Theory	y V		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POll
MPH395.1		2	1			2		2	1		2
MPH395.2			1		2	2		1	1		3
MPH395.3		2			2				1		3
MPH395.4		2	1			2		2	1		3
MPH395.5					2			2	1		3
MPH395.6		2	1		2	2		2	1		3
Average		2	1		2	2		1.8	1		3

