



ISO 9001:2008 Certified & NBA Reaccredited B. Pharm Course
Mahatma Gandhi Shikshan Mandal's
Smt. Sharadchandrika Suresh Patil College of Pharmacy



Chopda-425107. Dist. Jalgaon, (M.S.), India.

Phone / Fax No - +91-2586-222366/223150. E-mail-bpharmchopda@yahoo.com

(Affiliated to Kavayitri Bahinabai Chaudhari North Maharashtra University, Approved by Govt. of Maharashtra and Pharmacy Council of India, NewDelhi.)

Dr. Suresh G. Patil
Founder President

Adv. Sandeep S. Patil
President

Dr. G. P. Vadnere
Principal

2.6.2. Attainment of POs and COs are evaluated

Programme Outcomes (POs) and Course Outcomes (COs) of the institution reflect the quality of education provided by the University in syllabus. In the IQAC meetings, Course Outcomes of each subject and CO-PO mapping are discussed and integrated into the curriculum. Programme Outcomes of the Institution aim to nurturing skill and capacity among students for employment, research, problem solving, social responsibility, ethics and empowerment through education. Course Outcomes focus on the attainment of subject knowledge, awareness and sensitivity towards existing problems in the society, through the experiential knowledge, research orientation and industry readiness. The following aspects are considered in the attainment and evaluation of POs and Cos.

MAPPING OF PROGRAMMED OUTCOMES (POs) AND COURSE OUTCOMES (COs)

Course Code /Course Name	Course Outcome											
FIRST YEAR B. PHARMACY SEMESTER I	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	
Students should be able to learn CO1: Explain the gross morphology, structure and functions of various organs of the human body.	3	-	3	3	-	-	-	3	3	1	2	
CO2: Describe the various homeostatic mechanisms and their imbalances.	3	-	2	1	-	-	-	2	3	1	2	
CO3: Identify the various	3	-	3	1	-	-	-	3	2	-	2	




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BP101T Human Anatomy and Physiology-I	tissues and organs of different systems of human body.											
	CO4: Perform the various experiments related to special senses and nervous system.	3	-	2	1	-	-	-	2	3	-	2
	CO5: Appreciate coordinated working pattern of different organs of each system.	3	-	2	1	-	-	-	3	2	1	2
	CO6: Be able to understand patho-physiology of disease.	3	-	2	1	-	-	-	2	2	-	2
	Average: 1.287	3	-	2.3333	1.3333	-	-	-	2.5	2.5	0.5	2
BP102T Pharmaceutical Analysis	Students should be able to learn CO1: Learning this subject content will develop the ideas with the fundamental of analytical chemistry among the pupil.	3	2	2	1	1	1	2	2	2	2	3
	CO2: It constructs the fundamental methodology to prepare different strength of solutions.	3	2	2	1	1	1	2	2	2	1	3
	CO3: It facilitates the fellow pupil to predict the sources of mistakes and errors.	3	3	3	1	1	1	2	2	2	2	3




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	CO4: It helps to develop the fundamentals of volumetric analytical skills.	3	3	3	1	1	1	2	2	2	2	3
	CO5: It percolates the basic knowledge in the principles of electrochemical analytical techniques.	3	2	3	1	1	1	2	2	2	1	3
	CO6: The student interpretation skills will be improve by the course content in terms of choice of analytical techniques to perform the estimation of different category drugs.	3	2	2	1	1	1	2	2	2	1	3
	Average: 1.939	3	2.333	2.5	1	1	1	2	2	2	1.5	3
BP103T Pharmaceutics-I	Students should be able to learn CO1: Prescription writing, concepts such as dispensing, compounding, patient counseling and to know the pharmacist role as a health care provider.	3	1	2	-	-	-	-	-	-	-	1
	CO2: Basic concepts of formulation method, labeling	3	3	3	3	-	-	-	-	1	-	3



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	of different types of pharmaceutical dosage forms like emulsion and suspensions, dry powders, gels, pastes, and suppositories.											
	CO3: Appropriate dose calculation for child and adult patient.	3	3	3	3	-	-	-	-	-	-	-
	CO4: Understand physical and therapeutic incompatibilities and methods to overcome that.	3	2	3	2	-	-	-	-	-	-	-
	CO5: Study powders, monophasic and biphasic dosage forms, suspensions, emulsions.	3	3	3	3	-	-	-	-	-	-	-
	Average: 1.036364	3	2.4	2.8	2.2	-	-	-	-	0.2	-	0.8
BP104T Pharmaceutical	Students should be able to learn	3	1	1	-	-	2	-	-	1	2	3
	CO1: Gives basic introduction to inorganic chemistry.											
	CO2: know the sources of impurities and methods to	3	1	1	-	-	2	-	-	1	2	3



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Inorganic Chemistry	determine the impurities in inorganic drugs and pharmaceuticals.											
	CO3: understand the medicinal and pharmaceutical importance of inorganic compounds.	3	1	1	-	-	2	-	-	1	2	3
	CO4: Acid base buffer, major extra & intracellular fluids.	3	1	1	-	-	2	-	-	1	1	3
	CO5: Dental products, Gastrointestinal agents (Acidifiers, Antacid, Cathartics).	3	1	1	-	-	2	-	-	1	1	3
	Average: 1.145455	3	1	1	-	-	2	-	-	1	1.6	3
BP105T Communication Skill	Students should be able to learn	3	1	2	3	2	3	2	2	2	2	2
	CO1: Understand the behavioral needs for a pharmacist to function effectively in the areas of pharmaceutical operation.											
	CO2: Communicate effectively (Verbal and Non Verbal).	3	3	1	3	2	3	3	2	1	2	2
	CO3: Effectively manage the	3	3	1	3	2	3	3	2	2	2	2



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	team as a team player.											
	CO4: Develop interview skills.	3	3	1	2	2	3	3	2	2	2	2
	CO5: Develop Leadership qualities and essentials.	3	3	1	3	2	3	3	2	2	2	2
	CO6: Improve Presentation Skill.	3	2	1	3	1	2	3	2	2	3	3
	Average: 2.287	3	2.5	1.166	2.8333	1.833	2.83	2.833	2	1.833	2.167	2.166
BP106T Remedial Biology	Students should be able to learn	3	1	2	1	1	3	1	1	2	1	1
	CO1: know the classification and salient features of five kingdoms of life.											
	CO2: Understand the basic components of anatomy & physiology of plant.	3	2	2	1	1	3	1	1	2	1	2
	CO3: Know understand the basic components of anatomy & physiology animal with special reference to human.	3	2	2	1	1	3	1	1	2	1	2
	CO4: Body fluids and circulation, Digestion and Absorption, Breathing and respiration.	3	2	2	1	1	3	1	1	2	1	2
	CO5: Excretory products and	3	2	3	1	2	3	1	1	2	1	2




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	their elimination, Neural control and coordination.											
	CO6: Human reproduction.	3	2	2	1	1	2	3	2	2	1	2
	Average: 1.7575	3	1.833	2.166	1	1.166	2.83	1.3333	1.1666	2	1	1.8333
BP106TRMP Remedial Mathematics	Students should be able to learn	3	1	3	-	2	1	2	1	2	1	3
	CO1: Know the theory and their application in Pharmacy.											
	CO2: Solve the different types of problems by applying theory.	3	1	3	3	3	1	2	1	1	1	3
	CO3: Appreciate the important application of mathematics in Pharmacy.	3	1	3	3	1	1	2	1	2	1	3
	CO4: Partial fraction, Logarithms, Limits and continuity.	3	1	3	3	1	1	2	1	1	1	3
	CO5: Matrices and Determinant, Calculus Differentiation.	3	1	3	3	1	1	2	1	1	1	3
	CO6: Analytical Geometry, Differential Equations.	3	2	2	3	1	2	1	2	1	3	3
Average: 1.893939	3	1.166	2.8333	2.5	1.5	1.16	1.8333	1.1666	1.3333	1.333	3	
Students should be able to learn	3	-	2	2	1	1	1	-	2	1	2	




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BP107P Human Anatomy and Physiology	CO1: Investigate hematological functions/parameters by direct participation in laboratory experimentation, data collection, and analysis including homeostasis.												
	CO2: Investigate physiologic functions by direct participation in laboratory experimentation, data collection, and analysis for clinical experiments.	3	-	2	1	2	-	1	-	2	-	-	
	CO3: Compare and contrast the gross and microscopic anatomy of the cells, tissues, organs, sense organs and organ systems of the body.	3	-	2	1	1	-	1	-	2	-	-	
	CO4: Compare and contrast the normal microanatomy of the basic tissue types (epithelia, connective, and muscle, nervous) and their subtypes with attention to the details of cellular and	2	-	1	1	1	-	1	-	2	-	-	




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intracellular morphology, stratification, nature of the interstitial material and anatomic location in the organ systems under study.												
CO5: Compare and contrast the normal gross and microscopic anatomy of the body organs and organ systems (integumentary, skeletal, CVS and blood and body fluids and PNS) with emphasis on the size, shape, internal architecture, microanatomy, anatomic relationships, and locations.	3	-	2	1	1	-	1	-	2	-	-	
Average: 0.981818	2.8	-	1.8	1.2	1.2	0.2	1	-	2	0.2	0.4	
Students should be able to learn												
CO1: Perform the limit test of Chloride, Sulphate, Iron, and Arsenic.	3	1	2	1	1	2	2	1	1	1	3	
CO2: Prepare and standardized the Sodium hydroxide Sulphuric acid	3	2	3	1	1	2	2	1	1	2	3	




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BP108P Pharmaceutical Analysis	Sodium thiosulfate, Potassium permanganate, Ceric ammonium sulphate.											
	CO3: To Performed The Assay Of Ammonium chloride by acid base titration, Ferrous sulphate by Cerimetry, Copper sulphate by Iodometry, Calcium gluconate by complexometry, Hydrogen peroxide by Permanganometry, Sodium benzoate by non-aqueous titration , Sodium Chloride by precipitation titration.	3	2	3	1	1	2	2	1	1	2	3
	CO4: Determination of Normality of Conductometric titration of strong acid against strong base , Conductometric titration of strong acid and weak acid against strong base, Potentiometric titration of strong acid against strong base.	3	2	3	3	1	2	2	1	1	1	3
Average: 1.863636	3	1.75	2.75	1.5	1	2	2	1	1	1.5	3	



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BP109P Pharmaceutics-I	Students should be able to learn CO1: To demonstrate the skill of preparation of monophasic liquids.	3	-	-	2	-	1	-	-	-	-	3
	CO2: Explain principles of formulation of powder preparation.	3	-	-	1	-	1	-	-	-	-	3
	CO3: Perform the pharmaceutical calculation of dosage form for preparation of dosage form.	3	-	-	2	-	1	-	-	-	-	3
	CO4: Draw the label in prescribed manner including all components and parts.	3	-	-	-	-	1	-	-	-	-	3
	CO5: Demonstrate skill of preparation of biphasic dosage form.	3	-	-	2	-	2	-	-	-	-	3
	CO6: Demonstrate skill of preparation of semisolid dosage form.	3	-	-	2	-	2	-	-	-	-	3
	Average: 0.80303	3	-	-	1.5	-	1.33	-	-	-	-	-
Students should be able to learn CO1: Perform few limit tests	3	-	1	-	-	2	-	-	3	2	3	



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BP110P Pharmaceutical Inorganic Chemistry	and explain its significance.											
	CO2: Perform identification tests for inorganic compounds.	3	-	1	-	-	2	-	-	2	2	2
	CO3: Prepare some inorganic pharmaceutical compounds.	3	-	3	-	-	2	-	-	2	1	2
	CO4: Determine swelling index, acid neutralizing property, presence of iodate and iodine in some inorganic compounds.	3	-	3	-	-	2	-	-	2	2	2
	Average: 1.204545	3	-	2	-	-	2	-	-	2.25	1.75	2.25
BP111P Communication Skill	Students should be able to learn	3	1	2	3	2	3	2	2	2	2	2
	CO1: To develop basic communication skills using English language lab software.											
	CO2: To learn and practice different types of pronunciations.	3	3	1	3	2	3	3	2	1	2	2
	CO3: To improve advanced learning using English language lab software.	3	3	1	3	2	3	3	2	2	2	2
	CO4: To develop writing	3	3	1	2	2	3	3	2	2	2	2



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	skills, interview handling skills, presentation skills and group discussion skills using English language lab software.											
	CO5: To learn basic thing for starting conversation and effective communication skill.	3	3	1	3	2	3	3	2	2	2	2
	CO6: To learn email composition and email etiquette.	3	2	1	3	1	2	3	2	2	3	3
	Average: 2.287879	3	2.5	1.1666	2.8333	1.833	2.83	2.8333	2	1.8333	2.166	2.1666
BP112RBP Remedial Biology	Students should be able to learn CO1: Demonstrate different techniques used in histology.	2	-	-	1	-	1	-	-	2	-	3
	CO2: Explain the structure of cell of animal and plants with its inclusions.	2	-	-	2	-	1	-	-	2	-	2
	CO3: Study of different physiological parameters of human.	2	-	-	-	-	2	-	-	3	-	3
	CO4: Illustrate study of frog using computer model.		-	-	3	-	-	-	-	1	-	2
	Average: 0.818182	2	-	-	1.5	-	1	-	-	2	-	2.5



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FIRST YEAR B. PHARMACY SEMESTER II												
BP 201T Human Anatomy and Physiology -II	Students should be able to learn CO1: Understand the gross morphology, structure and functions of various organs of the human body.	3	-	1	1	1	1	-	3	-	3	3
	CO2: Understand the physiology of endocrine, nervous, digestive, respiratory, urinary and reproductive system.	2	-	1	2	1	1	1	2	2	2	3
	CO3: Identify the various organs of different systems of human body.	-	1	-	2	2	2	2	-	2	3	3
	CO4: Appreciate coordinated working pattern of different organs of each system.	3	-	-	3	1	-	-	2	1	3	3
	CO5: Performed and learnt about the experiments like neurological reflex, body temperature measurement.	3	-	1	3	1	2	3	3	2	3	2
	CO6: Appreciate the	3	-	-	3	-	2	2	3	3	3	-




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	interlinked mechanisms in the maintenance of normal functioning (Homeostasis) of human body.											
	Average: 1.636364	2.33	0.166	0.5	2.3333	1	1.3333	1.3333	2.166	1.6666	2.833	2.33333
BP 202T Pharmaceutical Organic Chemistry-I	Students should be able to learn CO1: Write the structure, name and the type of isomerism of the organic compound.	3	3	3	1	2	1	2	3	3	1	2
	CO2: Write the reaction, name the reaction and orientation of reactions.	2	3	1	3	2	1	2	2	3	2	2
	CO3: Account for reactivity/stability of compounds.	3	1	3	3	2	2	2	2	3	1	2
	CO4: Identify / confirm the identification of organic compound.	3	3	3	3	2	1	2	2	3	1	2
	CO5: Carboxylic acids, Aliphatic amines.	3	3	3	3	2	1	2	2	3	1	2
	CO6: Carbonyl compounds.	3	3	3	3	2	1	2	2	3	1	2
	Average: 2.212121	2.83	2.66	2.66	2.666	2	1.166	2	2.166	3	1.166	2
	Students should be able to	3	1	3	1	2	3	1	1	2	3	3




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BP203T Biochemistry	learn											
	CO1: Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.											
	CO2: Understand the metabolism of nutrient molecules in physiological and pathological conditions.	2	1	3	3	1	3	1	1	2	3	3
	CO3: Understand the genetic organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins.	3	1	3	3	1	3	1	1	2	3	3
	CO4: Biomolecules, Bioenergetics.	3	3	3	3	1	3	1	1	2	3	3
	CO5: Carbohydrate metabolism, Biological oxidation.	3	1	1	3	1	2	3	3	2	3	2
CO6: Lipid metabolism, Amino acid metabolism,	3	1	3	3	1	3	1	1	2	3	3	




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	Nucleic acid metabolism and genetic information transfer.											
	Average: 2.181	2.83	1.333	2.66	2.66	1.16	2.83	1.33	1.33	2	3	2.833
BP204T Pathophysiology	Students should be able to learn CO1: Describe the etiology and pathogenesis of the selected disease states.	1	-	2	1	3	-	-	3	2	1	1
	CO2: Knowledge of signs and symptoms of the diseases.	-	-	-	1	3	2	2	-	1	1	1
	CO3: Identify the complications of the diseases.	2	3	-	1	-	-	-	1	-	2	1
	CO4: Understand the basic mechanism involved in the process of inflammation and repair.	1	-	1	1	2	-	3	3	-	1	1
	CO5: Understand the Basic principles of Cell injury and Adaptation.	1	2	-	2	-	-	2	2	1	2	1
	CO6: Study the diseases related to various organs of different systems of human	2	-	-	-	3	2	-	2	1	-	1



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	body.											
	Average: 1.090909	1.67	0.833	0.5	1	1.8333	0.6667	1.1667	1.833	0.8333	1.166	1
BP205T Computer Application in Pharmacy	Students should be able to learn CO1: Know the various types of application of computers in pharmacy.	3	1	3	3	2	3	1	1	3	3	3
	CO2: Know the various types of databases.	3	1	3	3	2	3	1	1	3	3	3
	CO3: Know the various applications of databases in pharmacy.	2	1	3	3	2	3	1	1	3	3	3
	CO4: Web technologies, Application of computers in Pharmacy, Bioinformatics.	3	1	3	3	2	3	1	1	3	3	1
	CO5: Computers as data analysis in Preclinical development.	3	2	3	2	2	3	1	1	3	3	3
	CO6: Number system, Concept of Information Systems and Software.	3	1	3	3	3	2	3	2	1	2	3
	Average: 2.318	2.83	1.16	3	2.83	2.16	2.83	1.33	1.16	2.66	2.83	2.66
Students should be able to learn CO1: Create the awareness	1	-	2	1	3	-	-	3	2	1	1	



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5555T Environmental Studies	about environmental problems among learners.											
	CO2: Impart basic knowledge about the environment and its allied problems.	-	-	-	1	3	2	2	-	1	1	1
	CO3: Develop an attitude of concern for the environment.	2	3	-	1	-	-	-	1	-	2	1
	CO4: Motivate learner to participate in environment protection and environment improvement.	1	-	1	1	2	-	3	3	-	1	1
	CO5: Strive to attain harmony with Nature.	1	2	-	2	-	-	2	2	1	2	1
	CO6: Acquire skills to help the concerned individuals in identifying and solving.	2	-	-	-	3	2	-	2	1	-	1
	Average: 1.090909	1.16	0.833	0.5	1	1.8333	0.6667	1.1667	1.833	0.8333	1.667	1
Students should be able to learn												
CO1: Identify various tissues and organs of different system of human body.	3	-	2	1	-	1	-	-	2	-	3	



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BP207P Human Anatomy and Physiology II	CO2: Explain construction and working of spirometer for the measurement of lungs volume and capacities.	3	-	1	2	-	1	-	2	2	-	2
	CO3: Study the integumentary and special senses using specimen, models.	3	-	1	2	-	1	-	-	3	-	3
	CO4: Demonstrate the general neurological examination.	3	-	2	1	-	1	-	2	2	-	3
	Average: 1.181818	3	-	1.5	1.5	-	1	-	1	2.25	-	2.75
BP208P Pharmaceutical Organic Chemistry-I	Students should be able to learn CO1: Perform the systematic qualitative analysis of organic compounds.	2	-	2	-	-	1	-	-	2	-	3
	CO2: Prepare the suitable solid derivatives from organic compounds & construction of molecular models.	2	-	1	-	-	1	-	-	1	-	3
	CO3: Functional group test	2	-	1	-	-	1	-	-	1	-	3




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	like Phenols, Amides/ Urea.											
	CO4: Melting point/Boiling point of organic compounds.	3	-	2	3	-	1	-	-	2	3	3
	Average: 0.977273	2.25	-	1.5	0.75	-	1	-	-	1.5	0.75	3
BP209P Biochemistry	Students should be able to learn CO1: Identify and characterize carbohydrates, proteins by various qualitative tests.	2	-	2	2	-	-	1	-	2	2	3
	CO2: Determine blood containing sugar, total cholesterol, buffer solution off measurement of pH and action of salivary amylase.	3	-	3	1	-	-	-	-	2	2	3
	CO3: Determination of blood creatinine.	2	-	3	1	-	-	1	-	2	2	2
	CO4: Study of enzymatic hydrolysis of starch.	3	-	3	2	-	-	2	-	2	2	3
	Average: 1.318182	2.5	-	2.75	1.5	-	-	1	-	2	2	2.75
	Students should be able to learn CO1: Use MS Word MS access designing questionnaires, form to	2	-	-	3	-	-	-	2	1	-	3




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BP210P Computer Applications in Pharmacy	Record patient information, creating patient database mailing labels, invoice table and generate report.											
	CO2: Create HTML Web page. Export Tables. Queries. Forms and Report to web page.	2	-	-	3	-	-	-	2	1	-	3
	CO3: Drug information storage and retrieval using MS Access.	2	-	-	3	-	-	-	3	1	-	3
	CO4: Creating mailing labels Using Label Wizard, generating label in MS WORD.	2	-	-	3	-	-	-	2	1	-	3
	Average: 1.022727	2	-	-	3	-	-	-	2.25	1	-	3
SECOND YEAR B. PHARMACY SEMESTER III												
	Students should be able to learn	3										
	CO1: Write the structure, name and the type of isomerism of the organic compound.		3	3	3	2	1	3	3	2	2	3
	CO2: Write the reaction,	3	3	3	3	3	3	1	3	3	1	1



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BP301T Organic Chemistry	name the reaction and orientation of reactions.												
	CO3: Account for reactivity/stability of compounds.	3	3	2	3	3	2	1	2	2	2	2	2
	CO4: Prepare organic compounds.	3	3	1	3	3	2	2	2	2	2	3	1
	CO5: To emphasize on definition, types, classification, principles/mechanisms, applications, examples and differences.	3	3	3	1	3	2	1	3	2	2	3	3
	CO6: General methods of preparation and reactions of compounds.	3	3	3	3	3	1	1	3	2	2	2	2
	Average: 2.393	3	3	2.5	2.66	2.83	1.83	1.5	2.66	2.16	2.16	2.16	2
Students should be able to learn CO1: Student shall be able to understand various physicochemical properties of drug molecules in the designing the dosage forms. CO2: Student shall be able	3	2	2	1	3	1	3	1	2	2	3	3	
	3	2	1	3	3	2	3	1	2	2	3	3	




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BP302T Physical Pharmaceutics - I	to know the principles of chemical kinetics & to use them for stability testing and determination of expiry date of formulations.											
	CO3: Student shall be able to demonstrate use of physicochemical properties in the formulation development and evaluation of dosage forms.	3	2	2	2	3	2	3	1	2	3	3
	CO4: Student shall be able to state the physicochemical properties of drug molecules, pH, and solubility State the physicochemical properties of drug molecules, pH, and solubility.	3	2	2	3	3	2	3	1	2	3	3
	CO5: Student shall be able to explain the role of surfactants, interfacial phenomenon and thermodynamics.	3	2	2	3	3	2	3	1	2	2	3
	CO6: Student shall be able	3	1	2	3	3	1	1	1	1	3	2



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	to describe the flow behavior of fluids and concept of Complexation.											
	Average: 2.272	3	1.83	1.83	2.5	3	1.66	2.66	1	1.83	2.83	2.83
BP303T Pharmaceutical Microbiology	Students should be able to learn CO1: Describe types of microorganisms, identification of microorganism their uses and adverse effects on human health.	3	-	1	-	-	2	1	-	1	2	1
	CO2: Describe the methods of identification, cultivation and preservation of various microorganisms.	3	1	1	-	-	2	-	-	-	1	-
	CO3: Describe techniques of sterilization of pharmaceutical and food products.	3	1	2	1	-	1	1	1	2	1	1
	CO4: Study and describe equipment's, preparation and sterilization of culture media, aseptic transfer techniques, streak plate,	3	2	-	1	-	-	-	-	-	-	-



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	pour plate, spread plate, plate count and direct microscopy methods.											
	CO5: Understand and describe different microbiological methods for standardization of Pharmaceuticals.	3	1	1	-	-	1	1	1	1	1	1
	CO6: Understand the cell culture technology and its applications in pharmaceutical Industries.	3	1	1	1	1	2	1	1	1	1	2
	Average: 0.984848	3	1	1	0.5	0.167	1.333	0.6667	0.5	0.833	1	0.8333
	Students should be able to learn	3	3	1	1	2	3	2	1	3	2	2
	CO1: To know various unit operations used in Pharmaceutical industries.											
	CO 2: To understand the material handling techniques.	3	2	1	2	2	2	2	1	3	2	2
	CO3: To perform various processes involved in pharmaceutical manufacturing process.	3	2	1	2	2	3	2	1	3	2	2




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BP304T Pharmaceutical Engineering	CO4: To carry out various test to prevent environmental pollution.	3	2	1	2	2	3	2	1	3	2	1
	CO5: To appreciate and comprehend significance of plant lay out design for optimum use of resources.	2	1	1	2	2	3	1	1	3	2	2
	CO6: To appreciate the various preventive methods used for corrosion control in Pharmaceutical industries.	3	2	2	2	1	3	2	2	2	1	2
	Average: 1.336	3	1.2	1.2	1	1	1.6	1	1	1.25	1.2	1.25
BP305P Pharmaceutical Organic Chemistry-II	Students should be able to learn CO1: Determine the physical constants like acid value, saponification value and Iodine value of organic compounds.	3	-	1	-	-	1	-	-	-	-	3
	CO2: Synthesize certain organic compounds through acetylation,halogenation nitrationoxidation hydrolysis,hydrolysis, Perkins andclainsen	3	-	1	-	-	1	-	-	-	-	2



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	condensation.											
	CO3: Learn recrystallization techniques.	3	-	1	-	-	1	-	-	-	-	3
	CO4: Steam distillation techniques.	3	-	1	-	-	1	-	-	-	-	3
	Average: 0.69697	3	-	1	-	-	1	-	-	-	-	2.6667
BP306P Physical Pharmaceutics I	Students should be able to learn CO1: To develop skills and techniques those are parts of pharmaceutical procedures through the actual use of equipment and instruments.	3	3	3	2	3	1	1	3	1	3	3
	CO2: Interpret scientific data; represent the data in a tabular and/or graphical form.	3	3	3	2	2	1	1	3	1	3	3
	CO3: To calculate critical solution temperature & effect of addition of electrolyte on CST of phenol-water system, solubility, partition Coefficient, of solution of given compound.	3	3	3	2	2	1	1	2	1	3	2




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	CO4: The effect of temperature, pH, solvent, co- solvent on solubility.	3	3	3	2	3	1	1	2	1	3	2
	Average: 2.227273	3	3	3	2	2.5	1	1	2.5	1	3	2.5
BP307P Pharmaceutical Microbiology	Students should be able to learn	3	-	1	-	-	2	1	-	1	2	1
	CO1: Understand techniques for the cultivation of microbes.											
	CO2: Student will able to carry out the sterilization process and also able tom monitor the same.	3	1	1	-	-	2	-	-	-	1	-
	CO3: Learn the sterility testing of pharmaceuticals products and their microbial standardization.	3	1	2	1	-	1	1	1	2	1	1
	CO4: Students will acquire the knowledge and skill for isolation of and identification of microbes.	3	2	-	1	-	-	-	-	-	-	-
	CO5: Student will able to perform microbial assay of antibiotics, vitamins and amino acids.	3	1	1	-	-	1	1	1	1	1	1



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	CO6: Students will acquire and demonstrate competency in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological research.	3	1	1	1	1	2	1	1	1	1	1
	Average: 0.963636	3	1.2	1	0.6	0.2	1.2	0.6	0.6	0.8	0.8	0.6
BP308P Pharmaceutical Engineering	Students should be able to learn CO1: Perform various unit operation process involved in pharmaceutical manufacturing.	3	2	2	3	1	2	-	2	-	2	3
	CO2: Perform numerical, involved in calculating process related determinants.	3	1	1	2	1	2	-	1	1	1	2
	CO3: Create graphs and illustrate actions for data representation.	3	1	1	3	1	2	-	1	1	2	3
	CO4: Analyze and interpret the data generated from the experiments performed.	3	1	1	3	1	1	-	2	-	1	2
	Average: 1.545455	3	1.25	1.25	2.75	1	1.75	-	1.5	0.5	1.5	2.5




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SECOND YEAR B. PHARMACY SEMESTER IV

BP401T Organic Chemistry- III	Students should be able to learn											
	CO1: Understand the methods of preparation and properties of organic compounds.	3	1	1	2	1	2	2	1	2	1	3
	CO2: Explain the stereo chemical aspects of organic compounds and stereo chemical reactions.	3	1	2	2	1	2	1	1	2	1	3
	CO3: Know the structure and classification of Heterocyclic compounds.	3	1	3	2	1	2	1	1	2	1	3
	CO4: Know the medicinal uses and other applications of organic compounds.	3	1	1	2	1	2	1	1	2	1	3
	CO5: Know the reactions of synthetic importance.	3	2	1	2	1	2	2	1	1	1	3
	CO6: Know the reaction mechanism.	3	2	1	2	1	2	2	1	1	1	3
Average: 1.727273	3	1.333	1.5	2	1	2	1.5	1	1.667	1	3	
Students should be able to	3	-	1	2	2	1	2	1	2	2	1	



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BP402T Medicinal Chemistry	learn											
	CO1: Understand basic concept of medicinal chemistry related to drug action.											
	CO2: Explain the various reaction of phase I and phase II in drug metabolism.	3	2	-	2	2	2	2	1	2	2	-
	CO3: Classify the therapeutic agents, outline the synthetic route for the selective medicinal compounds of each category and acquire knowledge on the mechanism of action of pharmacodynamics agents.	3	2	1	2	2	2	2	1	2	2	2
	CO4: Acquire knowledge about the relationship between the biological activity and structure of therapeutic agents.	3	2	1	2	2	2	2	-	2	2	2
CO5: Design and adopt the reaction schemes for the synthesis of diverse medicinal compounds.	3	2	1	1	2	2	2	1	2	1	2	



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	CO6: Understand the drug metabolic pathways, adverse effect and therapeutic value of drugs.	3	2	-	-	-	2	1	1	-	2	1
	Average: 1.621212	3	1.66	0.66	1.5	1.667	1.833	1.833	0.83	1.667	1.833	1.333
BP403T Physical Pharmaceutics-II	Students should be able to learn CO1: Students shall be able to illustrate fundamentals and pharmaceutical applications of Colloidal dispersions, Rheology, Coarse Dispersion, Micromeritics, Drug stability.	3	2	3	2	2	3	2	2	3	2	3
	CO2: Students shall be able to understand the various methods for the determination of properties of colloids, properties of powder, order of reactions and flow of fluids.	3	2	3	2	2	3	2	2	3	2	3
	CO3: Students shall be able to describe the rate of reactions, degradation and	3	3	2	2	2	3	2	2	3	2	3



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stability methods of drugs as well as principle and significance of accelerated stability testing.												
CO4: Students shall be able to relate the scientific concepts of viscosity, Micromeritics, kinetics and colloids in connection with preparation, characterization and evaluation of dosage forms.	3	3	2	3	3	3	2	2	3	2	2	
CO5: Students shall be able to explain the concepts of rheological sciences and flow properties of pharmaceutical preparations.	3	3	2	3	3	3	2	3	3	2	2	
CO6: Students shall be able to describe the factors leading to instability of dispersion systems.	3	3	3	2	3	3	2	3	3	2	3	
Average: 2.545	3	2.66	2.5	2.33	2.5	3	2	2.33	3	2	2.66	
Student should able to learn	2	3	2	3	1	2	1	2	1	3	3	




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BP404T Pharmacology	CO1: Understand the pharmacological actions of different categories of drugs.											
	CO2: Explain the mechanism of drug action at organ system/sub cellular/Macro-molecular levels.	2	3	2	3	1	1	1	2	1	3	3
	CO3: Apply the basic pharmacological knowledge in the prevention and treatment of various diseases.	2	3	2	2	1	2	1	2	1	3	3
	CO4: Observe the effect of drugs on animals by simulated experiments.	2	3	2	3	1	2	1	2	1	3	3
	CO5: Appreciate correlation of pharmacology with other bio medical sciences.	1	3	2	3	1	2	1	3	1	3	3
	CO6: Pharmacology of drugs acting on central nervous system.	2	3	3	3	1	2	1	2	1	3	3
	Average: 2.075	1.83	3	2.16	2.83	1	1.83	1	2.16	1	3	3




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BP405T Pharmacognosy and Phytochemistry	Student should able to learn	3	2	2	3	1	2	1	2	1	3	3
	CO1: Know the history and development of Pharmacognosy.											
	CO2: Fundamentals of Pharmacognosy like scope, classification of crude drugs, their identification and evaluation, phytochemicals present in them and their medicinal properties.	3	2	2	3	2	2	3	1	1	2	1
	CO3: To know the techniques in the cultivation and production of crude drugs.	3	3	2	1	1	1	1	1	2	1	3
	CO4: To know the crude drugs, their uses and chemical nature.	3	2	2	3	2	1	1	2	1	2	3
	CO5: To know the evaluation techniques for the herbal drugs.	1	3	2	3	2	3	1	2	1	2	3
CO6: To carry out the microscopic and	2	-	3	2	2	2	-	2	1	2	2	




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	morphological evaluation of crude drugs.											
	Average: 1.981	2.5	2.4	2.16	2.5	1.66	1.83	1.4	1.66	1.16	2	2.5
BP406P Medicinal Chemistry-I	Students should be able to learn CO1: Synthesize and explain reaction mechanism of medicinally important compounds by using conventional methods.	1	1	1	2	-	-	1	2	1	1	2
	CO2: Perform quantitative analysis of drugs such as Chlorpromazine, Phenobarbitone, Atropine Ibuprofen, Aspirin and furosemide.	1	1	3	2	-	-	1	2	1	1	2
	CO3: Determination of Partition coefficient for drugs.	1	1	1	1	-	-	1	1	1	1	2
	Average: 1.090909	1	1	1.666	1.666	-	-	1	1.66	1	1	2
BP407P Physical Pharmaceutical-II	Students should be able to Learn CO1: Evaluate viscosity, specific surface area, particle size distribution of	3	2	3	2	2	3	1	3	1	3	3



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	given material.											
	CO2: Calculate Bulk density, true density, porosity of given excipient and Estimate various flow properties of powders.	3	2	3	2	2	3	1	3	1	3	3
	CO3: Calculate viscosity by Ostwald viscometer and Brookfield Viscometer.	3	3	3	2	2	3	1	3	2	3	3
	CO4: Understand the effect of suspending agents on sedimentation volume.	3	3	3	2	2	3	2	3	2	3	3
	Average: 2.477273	3	2.5	3	2	2	3	1.25	3	1.5	3	3
BP408P Pharmacology-I	Students should be able to learn											
	CO1: Introduction and Handle the laboratory equipment.	3	2	1	2	1	-	2	-	2	-	3
	CO2: Identify various laboratory animals and describe CPCSEA guidelines for care and handling of laboratory animals.	2	1	1	-	1	2	1	3	2	3	3
	CO3: Explain common	3	2	2	2	2	2	2	2	1	2	3



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	laboratory techniques, like blood withdrawal, serum and plasma separation, anesthetics and euthanasia used for animal studies.											
	CO4: Describe the different routes of drug administration in mice and rats.	3	1	2	2	1	1	1	3	2	1	2
	CO5: Demonstrate the effect of drugs on animals by simulated experiments.	3	1	1	3	1	2	2	2	1	2	3
	Average: 1.781818	2.8	1.4	1.4	1.8	1.2	1.4	1.6	2	1.6	1.6	2.8
BP409P Pharmacognosy & Phytochemistry-I	Students should be able to learn CO1: Perform analysis of crude drugs by chemical tests.	3	2	1	-	1	-	1	-	2	1	3
	CO2: Determine and perform stomatal number, stomatal index, vein islet number vein islet determination and palisade ratio of leaf drug.	2	2	1	-	2	-	2	-	2	1	2
	CO3: Understand and	3	2	-	2	1	-	1	-	1	2	3




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	determine size of starch grains, calcium oxalate Crystals, length. And width of fiber by eye piece micrometer and number of starch grains by Lycopodium spore method.											
	CO4: Perform Ash value Extractive values, moisture content, swelling and foaming index of crude drug.											
	Average: 2.416667	2	2	1	3	1	-	2	-	1	1	2
		2.5	2	0.75	1.25	1.25	-	1.5	-	1.5	1.25	2.5
THIRD YEAR B. PHARMACY SEMESTER V												
	Student should able to learn	3	3	2	3	2	3	1	2	2	1	3
	CO1: Understand the chemistry of drugs with respect to their pharmacological activity.											
BP501T Medicinal Chemistry	CO2: Understand the drug metabolic pathways, adverse effect and therapeutic value of drug.	3	3	1	3	2	3	3	2	2	2	2



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	CO3: Know the Structural Activity Relationship of different class of drugs.	3	3	1	3	2	3	2	2	2	1	2
	CO4: Study the chemical synthesis of selected drugs.	3	3	1	3	2	3	2	2	2	1	2
	CO5: Antihistaminic agents, H1-antagonists.	1	3	1	3	2	3	2	2	1	1	2
	CO6: Gastric Proton pumps inhibitors, Anti-neoplastic agents, Anti-anginal.	3	2	1	2	2	3	2	1	1	1	2
	Average: 2.12	2.66	2.83	1.16	2.83	2	3	2	1.83	1.66	1.16	2.16
	Students should be able to learn	1	2	1	2	-	1	2	-	3	2	1
	CO1: Understand and describe various Preformulation concepts their influence on stability.											
	CO2: Know and understand the need, application, formulation and evaluation of solid dosage form such as tablets, tablet coating and capsules.	1	1	1	1	3	1	1	2	3	2	1
BP502T Industrial Pharmacy-I	CO3: Understand the formulation aspects and	1	2	1	1	3	1	2	-	3	2	1



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evaluation of disperse system- emulsion, suspension and pharmaceutical aerosols.												
CO4: Understand and describe formulation and evaluation aspects of parenterals dosage form and ophthalmic preparations.	2	2	1	1	3	1	2	2	3	2	1	
CO5: Know the formulation and method of preparation of cosmetic.	1	2	1	2	3	1	2	2	3	2	2	
CO6: Know the Packaging material sciences.	2	2	2	1	3	2	2	2	2	2	1	
Average: 1.681818	1.33	1.83	1.166	1.333	2.5	1.166	1.833	1.333	2.833	2	1.1667	
Students should be able to learn	3	2	2	2	1	3	3	1	3	2	1	
CO1: Understand the mechanism of drug action and its relevance in the treatment of different diseases.												
CO2: Demonstrate isolation of different organs/tissues from the laboratory animals	3	2	2	1	1	3	3	1	3	2	1	



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BP503T Pharmacology-II	by simulated experiments.											
	CO3: Demonstrate the various receptor actions using isolated tissue preparation.	3	2	2	2	1	3	3	1	3	2	1
	CO4: Appreciate correlation of pharmacology with related medical sciences.	2	2	2	2	1	3	3	1	3	2	1
	CO5: Pharmacology of drugs acting on cardio vascular system, Pharmacology of drugs acting on cardio vascular system.	3	2	1	2	3	3	2	1	1	1	2
	CO6: Autacoids and related drugs, Pharmacology of drugs acting on endocrine system.	3	1	2	2	1	2	3	2	3	2	1
	Average: 2.015	2.83	1.83	1.83	1.83	1.33	2.83	2.83	1.16	2.66	1.83	1.16
Students should be able to learn CO1: Know the modern extraction techniques, characterization and	3	3	3	1	3	2	2	1	2	2	2	




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BP504T Pharmacognosy and Phytochemistry	identification of the herbal drugs and phytoconstituents.											
	CO2: Understand the preparation and development of herbal formulation.	3	2	2	2	3	3	3	3	3	3	3
	CO3: Understand the herbal drug interactions.	2	3	1	1	2	2	2	2	2	2	3
	CO4: Carryout isolation and identification of phytoconstituents.	2	3	2	2	2	2	1	3	3	3	2
	CO5: Metabolic pathways in higher plants and their determination.	2	2	3	1	2	1	3	2	2	3	2
	CO6: Industrial production, estimation and utilization of the phytoconstituents.	3	3	2	2	3	2	2	3	2	2	3
	Average: 2.287	2.5	2.66	2.16	1.5	2.5	2	2.16	2.33	2.33	2.5	2.5
Students should be able to learn CO1: Learn Pharmaceutical legislations and their implications in the development and marketing of pharmaceuticals.	3	2	2	-	2	3	3	-	3	1	3	



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BP 505T Pharmaceutical Jurisprudence	CO2: Understand various Indian pharmaceutical Acts and Laws.	3	2	1	1	-	3	3	3	3	-	3
	CO3: Learn the knowledge on schedules and functioning of various committees in drug and cosmetics act and rules.	3	2	1	-	3	3	3	3	3	-	3
	CO4: Know the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals.	3	-	1	1	3	2	3	-	3	3	1
	CO5: Impart basic knowledge on important legislations related to the profession of pharmacy in India.	3	1	2	3	2	3	3	3	3	1	3
	CO6: Understand the code of ethics during the pharmaceutical practice.	3	1	2	1	1	3	3	1	3	1	2
	Average: 2.060606	3	1.333	1.5	1	1.833	2.833	3	1.666	3	1	2.5




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BP506P Industrial Pharmacy-I	Students should be able to learn CO1: Perform Preformulation studies on paracetamol/asparin/or any other drug.	3	1	2	3	-	2	1	-	2	-	3
	CO2: Correct use of various equipment's in pharmaceutical laboratory Relevant to tablets, capsules and tablet coating.	3	1	2	3	-	-	1	-	1	-	3
	CO3: Preparation and evaluation of tablet, capsule, injection.	3	2	3	3	-	1	-	-	1	1	2
	CO4: Quality control test of various marketed formulations.	2	1	2	2	-	2	-	-	1	-	3
	CO5: Evaluation of glass container.	3	2	2	1	-	1	-	-	1	-	2
	Average: 1.309091	2.8	1.4	2.2	2.4	-	1.2	0.4	-	1.2	0.2	2.6
BP507P Pharmacology-II	Students should be able to learn CO1: Introduction to in-vitro pharmacology and physiological salt solutions.	3	1	-	2	-	2	-	-	2	-	3



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President

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	CO2: Effect of drugs on isolated tissue.	2	1	2	3	-	2	1	-	1	-	3
	CO3: Perform bioassay of drug by various method by interpolation, matching, three point bioassay.	2	1	1	2	-	1	-	-	1	-	2
	CO4: Effect of spasmogens and spasmolytics using rabbit jejunum.	2	1	-	1	-	1	2	-	2	-	3
	Average: 1.136364	2.25	1	0.75	2	-	1.5	0.75	-	1.5	-	2.75
BP508P Pharmacognosy and Phytochemistry-II	Students should be able to learn CO1: Morphology, histology and powder characteristics & extraction & detection of drug.	3	1	2	2	-	1	-	-	2	1	3
	CO2: Exercise involving isolation & detection of active constituent.	2	1	1	2	-	2	-	-	2	1	2
	CO3: Detection of phytoconstituents by using chromatographic technique.	3	1	1	3	-	2	-	-	3	1	1
	CO4: Analysis of crude drugs by chemical tests.	2	1	1	1	-	1	-	-	1	-	3
	Average: 1.204545	2.5	1	1.25	2	-	1.5	-	-	2	0.75	2.25



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THIRD YEAR B. PHARMACY SEMESTER VI

BP601T Medicinal Chemistry- III	Students should be able to learn CO1: Understand the importance of drug design and different techniques of drug design.	3	2	1	3	-	-	-	--		2	3
	CO2: Understand the chemistry of drugs with respect to their biological activity.	3	-	2	3	-	2		3	1	-	2
	CO3: Know the metabolism, adverse effects and therapeutic value of drugs.	3	-	2	3	-	-	-	3	1	-	2
	CO4: Know the importance of SAR of drugs.	3	-	2	3	-	-	-	-	-	-	2
	CO5: Physicochemical parameters used in quantitative structure activity relationship (QSAR) such as partition coefficient, Hammett's electronic parameter, Taft's steric parameter and Hansch analysis.	3	3	3	3	-	-	-	1		2	3
	CO6: Combinatorial Chemistry Concept and applications of combinatorial chemistry: solid phase and solution phase synthesis.	3	3	3	3	-	-	-	1		2	3




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	Average: 1.378788	3	1.333	2.166	3	-	0.333	0.166	1.33	0.333	1	2.5
BP602T Pharmacology	Students should be able to learn CO1: Subject is intended to impart the fundamental knowledge on various aspects.	2	2	2	1	2	3	2	1	2	1	2
	CO2: Understand the mechanism of drug action and its relevance in the treatment of different infectious diseases.	3	2	2	3	2	3	2	1	2	1	2
	CO3: Comprehend the principles of toxicology and treatment of various poisoning.	2	2	2	3	2	1	2	1	2	2	2
	CO4: Appreciate correlation of pharmacology with related medical sciences.	3	2	2	3	2	3	2	2	2	2	2
	CO5: Classification, mechanism of action, therapeutic effects, clinical uses, side effects and contraindications of drugs.	3	2	2	3	1	3	2	1	1	2	2
	CO6: Skillful handling operating of instrument, software and animal.	3	1	2	3	2	3	2	1	2	2	3
	Average: 2.045	2.66	1.83	2	2.66	1.83	2.66	2	1.16	1.83	1.66	2.16
Students should be able to learn CO1: Understand raw material as source of herbal drugs from	3	3	3	3	2	2	2	2	2	2	2	




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BP603T Herbal Drug Technology	cultivation to herbal drug product.											
	CO2: Know the WHO and ICH guidelines for evaluation of herbal drugs.	2	2	2	3	3	3	2	3	2	3	3
	CO3: Know the herbal cosmetics, natural sweeteners, nutraceuticals.	2	3	3	2	3	3	3	2	1	2	2
	CO4: Appreciate patenting of herbal drugs, GMP.	3	3	3	3	3	3	2	3	2	3	3
	CO5: Know Indian Systems of medicine.	3	2	3	3	2	2	2	2	2	3	2
	CO6: Herbal-Drug and herb-Food Interactions.	3	3	2	3	3	2	1	3	2	2	3
	Average: 2.484	2.66	2.66	2.66	2.83	2.66	2.5	2	2.5	1.83	2.5	2.5
BP604T Biopharmaceutics & Pharmacokinetics	Students should be able to learn	3	2	2	3	-	-	3	-	2	1	3
	CO1: Understand the basic concepts in biopharmaceutics and pharmacokinetics.											
	CO2: Use of plasma drug concentration-time data to calculate the pharmacokinetic parameters to describe the kinetics of drug absorption, distribution, metabolism, excretion, elimination.	3	3	3	3	-	-	3	3	1	-	3
CO3: To understand the concepts of bioavailability and	3	3	1	3	2	1	2	3	3	-	3	



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	bioequivalence of drug product & their significance.											
	CO4: Understand various pharmacokinetic parameters, their significance & applications.	3	-	1	1	3	2	3	-	3	3	1
	CO5: To design of dose and dosage regimen and in solving the problems arise therein.	3	1	2	3	2	3	3	3	3	1	3
	CO6: To study kinetics of drug absorption, distribution, metabolism, excretion, elimination.	3	1	2	3	1	3	3	1	3	1	2
	Average: 2.045455	3	1.66	1.83	2.66	1.33	1.5	2.833	1.66	2.5	1	2.5
BP605T Pharmaceutical Biotechnology	Students should be able to learn	3	2	3	3	-	2	2	2	2	2	3
	CO1: Understanding the importance of Immobilized enzymes in Pharmaceutical Industries.											
	CO2: Understand Genetic engineering applications in relation to production of pharmaceuticals.	3	3	3	3	-	-	1	3	1	1	2
	CO3: To know Importance of Monoclonal antibodies in Industries.	3	3	3	3	2	-	3	1	1	-	2
	CO4: To appreciate the use of microorganisms in fermentation	3	2	3	3	3	3	2	1	3	-	3



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	technology Unit.											
	CO5: Understand scientific application of biotechnology in the field of genetic engineering, medicine and fermentation technology.	3	2	3	-	3	2	2	3	3	3	3
	CO6: To know role of biotechnology in disease cure, production of transgenic plant.	3	3	3	3	2	1	2	3	3	3	3
	Average: 2.227273	3	2.5	3	2.5	1.66	1.33	2	2.16	2.166	1.5	2.66
BP 606T Pharmaceutical Quality Assurance	Students should be able to learn	3	2	3	2	1	1	1	2	3	2	3
	CO1: Understand the cGMP aspects in a pharmaceutical industry.											
	CO2: Appreciate the importance of documentation.	1	1	2	3	-	-	1	3	1	1	2
	CO3: Understand the scope of quality certifications applicable to pharmaceutical industries.	3	3	3	3	2	-	3	1	3	2	2
	CO4: Understand the responsibilities of QA & QC departments.	3	2	3	3	3	3	2	1	3	2	3
	CO5: Summarize pharmaceutical legal regulatory bodies.	3	2	1	-	3	2	2	3	3	2	3
	CO6: Elaborate on the role of	3	3	3	3	2	1	2	3	-	3	3




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	validation in assurance of quality in pharmaceutical industry.											
	Average: 2.136364	2.6666	2.166	2.5	2.333	1.833	1.166	1.833	2.16	2.166	2	2.66
BP607P Medicinal Chemistry-III	Students should be able to learn CO1: Preparation of drugs and intermediates Sulphanilamide, 7-Hydroxy, 4-methyl coumarin, Chlorobutanol etc.	3	3	3	3	1	1	-	2	1	1	3
	CO2: Assay of drugs As Isonicotinic acid hydrazide, Chloroquine Metronidazole, Dapsone etc.	3	3	3	3	1	1	-	2	1	1	3
	CO3: Preparation of medicinally important compounds or intermediates by Microwave irradiation technique.	3	3	3	3	1	1	-	2	1	1	3
	CO4: Determination of physicochemical properties such as logP, clogP, MR, Molecular weight.	3	3	3	3	-	-	-	-	1	1	3
	Average: 1.818182	3	3	3	3	0.75	0.75	-	1.5	1	1	3
BP608P Pharmacology-III	Students should be able to learn CO1: Dose calculation in pharmacological experiments.	3	1	2	1	-	1	-	-	1	1	2
	CO2: Antiallergic activity by mast cell stabilization assay.	3	1	2	-	-	1	-	-	2	1	2



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	CO3: Study of effect of drugs on gastrointestinal motility.	2	1	3	2	-	1	-	-	1	1	2
	CO4: Effect of agonist and antagonists on guinea pig ileum.	1	2	2	2	-	1	-	-	2	1	3
	Average: 1.159091	2.25	1.25	2.25	1.25	-	1	-	-	1.5	1	2.25
BP609P Herbal Drug Technology	Students should be able to learn CO1: To perform preliminary phytochemical screening of crude drugs.	3	2	1	1	-	-	1	1	-	1	2
	CO2: Determination of the alcohol content of Asava and Arista.	2	2	-	2	-	-	1	-	-	1	2
	CO3: Evaluation of excipients of natural origin.	2	1	-	2	-	-	1	1	-	1	3
	CO4: Incorporation of prepared and standardized extract in cosmetic formulations.	2	2	1	1	-	-	1	-	-	1	2
	CO5: Determination of Aldehyde content, Phenol content, total alkaloids.	3	2	-	1	-	-	1	-	-	2	3
	Average: 1	2.4	1.8	0.4	1.4	-	-	1	0.4	-	1.2	2.4
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	Students should be able to learn CO1: Understand the	3	1	2	3	1	1	2	1	3	3	3



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BP701T Instrumental Method of Analysis	interaction of matter with electromagnetic radiations and its applications in drug analysis.											
	CO2: Understand the chromatographic separation and analysis of drugs.	3	1	2	3	1	1	2	1	3	3	3
	CO3: Perform quantitative & qualitative analysis of drugs using various analytical instruments.	3	1	2	3	1	1	2	1	3	3	3
	CO4: UV Visible spectroscopy, Fluorimetry, IR spectroscopy.	3	1	2	3	1	1	2	1	3	3	3
	CO5: Introduction to chromatography, Thin layer chromatography, Paper chromatography.	3	1	2	3	1	1	2	1	3	3	3
	CO6: Gas chromatography, High performance liquid chromatography (HPLC).	3	1	2	3	1	1	2	1	3	3	3
	Average: 2.166667	3	1	2	3	1	1	2	1	3	3	3
Students should be able to	3	3	2	3	2	1	-	1	3	-	2	



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BP702T Industrial Pharmacy- II	learn											
	CO1: Know the process of pilot plant and scale up of pharmaceutical dosage forms.											
	CO2: Understand the process of technology transfer from lab scale to commercial batch.	1	2	1	3	2	1	2	3	-	1	1
	CO3: Know different Laws and Acts that regulate pharmaceutical industry.	3	1	2	1	2	3	3	1	2	1	3
	CO4: Understand the approval process and regulatory requirements for drug products.	3	1	2	-	2	3	3	1	2	1	3
	CO5: Know the quality management system in pharmacy.	3	3	3	1	2	2	1	1	1	-	3
	CO6: Understand the responsibilities of Central Drug Standard Control Organization (CDSCO).	3	1	2	1	1	3	3	1	2	1	3
Average: 1.833333	2.66	1.83	2	1.5	1.833	2.166	2	1.33	1.66	0.66	2.5	
Students should be able to	3	3	2	3	3	3	3	3	3	3	3	



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BP703T Pharmacy Practice	learn CO1: Know various drug distribution methods in a hospital.											
	CO2: Appreciate the pharmacy stores management and inventory control.	1	2	3	3	3	3	3	3	2	3	1
	CO3: Monitor drug therapy of patient through medication chart review and clinical review.	3	3	3	1	3	3	3	1	3	3	3
	CO4: Obtain medication history interview and counsel the patients.	3	3	3	3	3	3	3	3	3	3	3
	CO5: Identify drug related problems.	3	3	3	3	2	2	1	3	3	3	3
	CO6: Detect and assess adverse drug reactions.	3	3	3	3	3	3	3	3	3	1	3
	Average: 2.742	2.66	2.83	2.83	2.66	2.83	2.83	2.66	2.66	2.83	2.66	2.66
	Students should be able to learn CO1: Explain the various approaches for development of novel drug delivery	2	-	-	1	1	2	3	2	2	2	3



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BP704T Novel Drug Delivery Systems	Systems.											
	CO2: To understand various approaches for development of novel drug delivery systems.	3	-	3		2	-	3	1	-	1	3
	CO3: To understand the criteria for selection of drugs and polymers for the development of Novel drug delivery systems, their formulation and evaluation.	2	2	2	3	2	1	3	1	3	-	2
	CO4: To understand the criteria for selection of drugs and polymers for the development of Novel drug delivery systems, their formulation and evaluation like microencapsulation's, mucosal and implantable drug delivery systems.	3	1	3	3	2	3	3	2	3	3	3
	CO5: To understand the criteria for selection of drugs and polymers for the development of Novel drug delivery systems, their	3	2	3	3	2	2	3	2	1	3	3




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formulation and evaluation like Transdermal and nasopulmonary systems.												
CO6: To understand the criteria for selection of drugs and polymers for the development of Novel drug delivery systems, their formulation and evaluation like targeted drug delivery concepts.	3	2	3	3	2	2	3	2	1	3	3	
CO7: To understand the criteria for selection of drugs and polymers for the development of Novel drug delivery systems, their formulation and evaluation like Ocular and intrauterine Drug Delivery Systems.	3	-	3	3	1	2	3	2	1	3	3	
CO8: Enumerate the application of Dosage Forms for Personalized Medicine, Pharmacogenetics, Customized drug delivery	2	2	3	3	2	2	3	2	2	3	3	




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	systems, Bioelectronic Medicines, 3D printing of pharmaceuticals, and Telepharmacy.											
	CO9: Identify the criteria for selection of drugs and polymers for the development of delivering system.	3	2	3	3	1	2	2	2	1	3	3
	Average: 2.189	2.66	1.22	2.55	2.75	1.666	1.77	2.888	1.77	1.555	2.333	2.888
BP706PS Practice School	Students should be able to learn											
	CO1: To prepare industry/profession/society ready students.	3	3	3	3	3	3	3	3	3	3	3
	CO2: Sufficient skills that help to get job placements.	3	3	3	3	3	3	3	3	3	3	3
	CO3: Build future ready leaders.	1	1	1	1	3	1	1	1	1	1	1
	CO4: It facilitates and promotes partnership and intellectual exchange between academia and industry.	2	2	2	3	2	3	3	3	3	3	3
CO5: Fully prepared with	3	3	3	3	1	1	1	3	1	1	1	



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	core skills and additional soft skills.											
	CO6: Enable students to acquire learning by applying the knowledge and skills they possess, in unfamiliar, open-ended real-life situations.	3	3	3	3	3	3	3	3	3	3	3
	Average: 2.45	2.5	2.5	2.5	2.66	2.5	2.33	2.33	2.66	2.33	2.33	2.33
BP705P Instrumental Methods of Analysis	Students should be able to learn						1	2	1	3	3	3
	CO1: Determination of absorption maxima and effect of solvents on absorption maxima of organic compounds.	3	1	2	3	1						
	CO2: Estimation of compound by Colorimetry, UV Spectroscopy, Fluorimetry.	3	1	2	3	1	1	2	1	3	3	3
	CO3: Separation of various constituent by Thin Layer Chromatography.	3	1	2	3	1	1	2	1	3	3	3




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	CO4: Demonstration experiment on HPLC, Gas chromatography.	3	1	2	3	1	1	2	1	3	3	3
	Average: 2.1666	3	1	2	3	1	1	2	1	3	3	3
FINAL YEAR B.PHARMACY SEMESTER VIII												
BP801T Biostat And Research Methodology	Students should be able to learn CO1: Know the operation of M.S. Excel, SPSS, R and MINITAB ®.	3	3	3	3	2	2	2	2	2	2	3
	CO2: Know the various statistical techniques to solve statistical problems.	3	3	3	2	3	2	2	2	2	2	3
	CO3: Appreciate statistical techniques in solving the problems.	3	3	3	2	2	1	1	2	2	2	2
	CO4: DoE (Design of Experiment).	1	3	3	2	2	2	2	1	2	1	3
	CO5: Non Parametric tests, Introduction to Research, plagiarism Graphs, Counter Plot graph Designing the	3	1	1	2	2	2	2	2	2	2	2



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	methodology.											
	CO6: Regression modeling, Introduction to Practical components of Industrial and Clinical Trials Problems.	3	3	3	2	2	2	2	2	1	2	3
	Average: 2.212	2.66	2.66	2.66	2.16	2.16	1.83	1.83	1.83	1.83	1.83	2.83
BP802T Social And Preventive Pharmacy	Students should be able to learn	1	1	-	3	2	3	2	3	2	-	2
	CO1: To know the number of health issues and their challenges.											
	CO2: To introduce a number of national health programs.	1	3	2	2	3	3	2	2	2	2	2
	CO3: Student shall be able to acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide	1	-	2	2	3	1	1	3	2	-	2
	CO4: To develop the critical way of thinking based on current healthcare	1	3	-	1	3	1	-	1	-	1	3



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	development.											
	CO5: To know the roles of the pharmacist.	3	1	1	1	2	3	2	2	3	1	3
	CO6: To Evaluate alternative ways of solving problems related to health and Pharmaceutical issues.	3	-	1	2	-	1	2	2	1	2	3
	Average: 1.960	1.66	2	1.5	1.83	2.6	2	1.8	2.16	2	1.5	2.5
BP804ET Pharmaceutical Regulatory Science	Students should be able to learn CO1: Know about the process of drug discovery and development.	3	1	-	-	1	2	-	-	2	3	3
	CO2: Know the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals.	3	1	-	-	3	2	-	2	2	2	3
	CO3: Know the regulatory approval process and their registration in Indian and international markets.	3	1	-	-	2	2	-	2	2	2	2
	CO4: Know the process of NDA and ANDA.	3	1	-	-	1	2	-	2	2	2	1
	CO5: Know how to prepare technical documentation.	3	1	-	2	1	2	-	2	1	1	2



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	CO6: Know how to prepare clinical trial protocols.	3	1	-	-	1	2	-	2	1	2	2
	Average: 1.393	3	1	-	0.333	1.5	2	-	1.66	1.666	2	2.1666
BP806ET Quality Control and Standardization of Herbals	Students should be able to learn						3	3	3	3	3	3
	CO1: Know WHO guidelines for quality control of herbal drugs.	3	3	3	3	2						
	CO2: Know Quality assurance in herbal drug industry.	3	1	3	3	2	3	3	3	3	3	3
	CO3: Know the regulatory approval process and their registration in Indian and international markets.	3	1	3	3	2	3	3	3	3	3	3
	CO4: Appreciate EU and ICH guidelines for quality control of herbal drugs.	3	1	3	3	2	3	3	3	3	3	3
	CO5: Study Research Guidelines for Evaluating the Safety and Efficacy of Herbal Medicines.	3	1	3	3	2	3	3	3	3	3	3
CO6: Preparation of documents for new drug application and export	3	1	3	3	2	3	3	3	3	3	3	




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	registration.											
	Average: 2.757	3	1.33	3	3	2	3	3	3	3	3	3
BP806ET Quality Control and Standardization of Herbals	Students should be able to learn					1	3	2	3	2	2	3
	CO1: Know WHO guidelines for quality control of herbal drugs.	3	3	3	3							
	CO2: Know Quality assurance in herbal drug industry.	3	1	3	3	1	1	2	2	2	3	3
	CO3: Know the regulatory approval process and their registration in Indian and international markets.	3	3	3	3	1	1	2	2	2	2	3
	CO4: Appreciate EU and ICH guidelines for quality control of herbal drugs.	3	3	3	3	1	1	3	2	2	2	3
	CO5: Study Research Guidelines for Evaluating the Safety and Efficacy of Herbal Medicines.	3	3	3	3	1	1	2	2	2	2	3
CO6: Preparation of documents for new drug application and export registration.	3	3	3	3	2	2	2	2	3	2	3	



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	Average: 2.363	3	2.66	3	3	1.16	1.5	2.16	2.16	2.16	2.16	3
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MAPPING OF PROGRAMMED OUTCOMES (PO) AND COURSE OUTCOMES (CO) FOR M.PHARMACY (PHARMACEUTICS)

Course Code /Course Name	Course outcome	POs			
		PO1	PO2	PO3	Average
FIRST YEAR M. PHARMACY SEMESTER I					
MPH101T Instrumental Analysis	Students should be able to learn CO1: Chemical and excipient	3	2	2	2.33333
	CO2: The analysis of various drug in single or combination of dosage form.	3	1	1	1.66667
	CO3: Theoretical and Practical skill of instrumentation	3	3	2	2.66667
	CO4: Instrumental details of NMR, Mass spectroscopy, IR, HPLC, GC.	3	1	2	2
	CO5: Identification, characterization, and quantification of drug.	3	2	2	2.33333
	CO6: Comparing various method of analysis and their outcomes such as RIA, ELISA, Bioluminescence assay.	2	2	1	1.66667
	Average: 2.11111	2.833	1.833	1.66666	2.1121
MPH102T Drug Delivery System	Students should be able to learn CO1: The various approaches for the development of novel drug delivery system.	3	2	2	2.33333




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	CO2: Criteria for selection of drug and polymers for development of delivering system.	3	1	2	2
	CO3: Formulation and evaluation of novel drug delivery system.	3	1	2	2
	Average: 2.111111	3	1.333	2	2.111
MPH103T Modern Pharmaceutics	Students should be able to learn CO1: The elements of Preformulation studies.	2	2	3	2.333333
	CO2: The active pharmaceutical ingredient and genetic drug product development.	3	1	2	2
	CO3: Industrial management and GMP Consideration.	2	2	2	2
	CO4: Optimization technique and pilot plant scale up techniques.	2	3	2	2.333333
	CO5: Stability testing, sterilization process and packaging of dosage form.	3	3	2	2.666667
	Average: 2.266667	2.4	2.2	2.2	2.266667
MPH104T Regulatory Affairs	Students should be able to learn CO1: The concept of innovators and generic drug development process.	3	1	3	2.333333
	CO2: The regulatory guidelines for filling and approval process.	2	3	3	2.666667




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	CO3: Preparation of dossiers and their submission to regulatory agencies in different countries.	3	3	3	3
	CO4: Post approval of regulatory requirement for actives and drug product.	2	3	3	2.666667
	CO5: Clinical trial requirement for approval for conducting clinical trails.	3	3	2	2.666667
	CO6: Pharmacovigilence and process of monitoring in clinical trials.	2	3	2	2.333333
	Average: 2.611111	2.5	2.666	2.66666	2.611
MPH 105P Pharmaceutics Practical	Students should be able to learn				
	CO1: Perform in-vitro dissolution of CR/SR marketed formulation.	3	2	3	2.666667
	CO2: Explain experiment base on gas chromatography.	3	2	2	2.333333
	CO3: Understanding simultaneous estimation of multi-component containing formulation by UV spectrophotometer.	2	1	2	1.666667
	CO4: To study effect of particle size on dissolution of tablet.	3	2	3	2.666667
	CO5: To study effect of tablet	3	2	3	2.666667




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	compression on tablet disintegration.				
	Average: 2.4	2.8	1.8	2.6	2.4
FIRST YEAR M. PHARMACY SEMESTER II					
MPH 201T Molecular Pharmaceutics	Student should able to learn CO1: The various approaches for development of novel drug delivery systems.	3	2	2	2.333333
	CO2: The criteria for selection of drugs and polymers for the development of NDDS.	3	2	3	2.666667
	CO3: The formulation and evaluation of novel drug delivery systems.	3	2	2	2.333333
	Average: 2.444444	3	2	2.3333	2.44
MPH 202T Advanced Biopharmaceutics & Pharmacokinetics	Students should be able to learn CO1: The basic concepts in biopharmaceutics and pharmacokinetics.	2	3	1	2
	CO2: The use raw data and derive the pharmacokinetic models and parameters the best describe the process of drug absorption, distribution, metabolism and elimination.	3	2	2	2.333333




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	CO3: The critical evaluation of biopharmaceutic studies involving drug product equivalency.	2	1	1	1.333333
	CO4: The design and evaluation of dosage regimens of the drugs using pharmacokinetic and biopharmaceutics parameters.	3	1	2	2
	CO5: The potential clinical pharmacokinetic problems and application of basics of pharmacokinetic.	2	1	2	1.666667
	Average: 1.866667	2.4	1.6	1.6	1.8
MPH 203T Computer Aided Drug Development	Students should be able to learn CO1: History of Computers in Pharmaceutical Research and Development.	2	-	3	1.666667
	CO2: Computational Modeling of Drug Disposition.	3	2	2	2.333333
	CO3: Computers in Preclinical Development.	3	2	3	2.666667
	CO4: Computers in Market Analysis.	2	2	2	2
	CO5: Computers in Clinical Development.	2	2	2	2
	CO6: Artificial Intelligence (AI) and	1	-	2	1




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	Robotics.				
	CO7: Computational fluid dynamics (CFD).	1	-	2	1
	CO8: Optimization Techniques in Pharmaceutical Formulation.	1	1	2	1.333333
	Average: 1.75	1.875	1.125	2.25	1.944445
MPH 204T Cosmetics and Cosmeceuticals	Students should be able to learn CO1: Key ingredients used in cosmetics and cosmeceuticals's.	3	2	3	2.666667
	CO2: Key building blocks for various formulations.	2	2	2	2
	CO3: Current technologies in the market.	3	1	3	2.333333
	CO4: Various key ingredients and basic science to develop cosmetics and cosmeceuticals.	3	2	2	2.333333
	CO5: Scientific knowledge to develop cosmetics and cosmeceuticals with desired Safety, stability, and efficacy.	3	2	3	2.666667
	Average: 2.4	2.8	1.8	2.6	2.4
MPH 205P Pharmaceutics	Students should be able to learn CO1: To study the effect of temperature change, non solvent addition incompatible polymer	3	2	3	2.666667




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Practical-II	addition in microcapsule preparation.				
	CO2: Understand the protein binding studies in highly protein bound drug and poorly bound protein drug.	3	2	3	2.666667
	CO3: Develop a clinical data collection manual.	2	1	2	1.666667
	CO4: Explain computational modeling of drug deposition.	2	2	3	2.333333
	Average: 2.333333	2.5	1.75	2.75	2.33



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MAPPING OF PROGRAMMED OUTCOMES (POs) AND COURSE OUTCOMES (COs) FOR M.PHARMACY (PHARMACOGNOSY)

Course Code /Course Name	Course Outcome	POs			
		PO1	PO2	PO3	Average
FIRST YEAR M.PHARMACY SEMESTER I					
MPG 101T Instrumental Analysis	Students should be able to learn CO1: Chemical and excipient	3	2	2	2.33333
	CO2: The analysis of various drug in single or combination of dosage form.	3	1	1	1.66667
	CO3: Theoretical and Practical skill of instrumentation	3	3	2	2.66667
	CO4: Instrumental details of NMR, Mass spectroscopy, IR, HPLC, GC.	3	1	2	2
	CO5: Identification, characterization, and quantification of drug.	3	2	2	2.33333
	CO6: Comparing various method of analysis and their outcomes such as RIA, ELISA, Bioluminescence assay.	2	2	1	1.66667
	Average: 2.111		2.833333	1.833333	1.666667
	Students should be able to learn	2	2	3	2.333333



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MPG 102T Advanced Pharmacognosy-I	CO1: Advances in the cultivation and production of drugs.				
	CO2: Various phyto-pharmaceuticals and their source, its utilization and medicinal value.	2	3	3	2.666667
	CO3: Various nutraceuticals/herbs and their health benefits.	2	2	2	2
	CO4: Drugs of marine origin.	2	2	2	2
	CO5: Pharmacovigilance of drugs of natural origin.	3	2	2	2.333333
	Average: 1.581818	2.2	2.2	2.4	2.266
MPG 103T Phytochemistry	Students should be able to learn	2	3	2	
	CO1: Different classes of phytoconstituents, their biosynthetic pathways, their properties, extraction and general process of natural product drug discovery.				2.333333
	CO2: Phytochemical fingerprinting and structure elucidation of phytoconstituents.	3	2	3	2.666667
	CO3: Drug discovery and development herbs as source of drugs and drug discovery, structure development, clinical trials.	2	2	3	2.333333
	CO4: Extraction and phytochemical	3	2	3	2.666667




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	studies and recent advances in this process.				
	Average: 2.5	2.5	2.25	2.75	2.5
MPG 104T Industrial Pharmacognostical Technology	Students should be able to learn CO1: The requirements for setting up the herbal/natural drug industry.	3	2	3	2.666667
	CO2: The guidelines for quality of herbal/natural medicines and regulatory issues.	2	2	2	2
	CO3: The patenting/IPR of herbals/natural drugs and trade of raw and finished materials.	3	3	3	3
	Average: 2.555556	2.666667	2.3333	2.6666	2.555
MPG 105P Pharmacognosy	Students should be able to learn CO1: Understand & explain the standardization of phytopharmaceuticals by various analytical techniques like UV spectroscopy, Gas chromatography, Flame photometry, etc.	3	2	3	2.666667
	CO2: Elaborate development of fingerprint of plant extracts of industrial utility.	2	3	3	2.666667
	CO3: Prepare & evaluate various herbal dosage forms including	3	1	2	2




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Founder President

Adv. Sandeep S. Patil

President



Dr. G. P. Vadnere

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	monograph analysis of clove & castor oil.				
	Average: 2.444444	2.666667	2	2.6666	2.4
FIRST YEAR M.PHARMACY SEMESTER II					
MPG 201T Medicinal Plant Biotechnology	Students should be able to learn	2	1	2	
	CO1: Know the process like genetic engineering in medicinal plants for higher yield of Phytopharmaceuticals.				1.666667
	CO2: Use the biotechnological techniques for obtaining and improving the quality of natural products/medicinal plants.	3	1	2	2
	CO3: Fermentation technology.	2	2	1	1.666667
	CO4: Biotransformation and Transgenesis.	2	3	1	2
	Average: 1.833333	2.25	1.75	1.5	1.8
MPG 202T Advanced Pharmacognosy-II	Students should be able to learn	2	1	2	
	CO1: Validation of herbal remedies.				1.666667
	CO2: Methods of detection of adulteration and evaluation techniques for the herbal drug.	1	2	3	2
	CO3: Methods of screening of herbals for various biological	3	2	2	2.333333




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	properties.				
	CO4: Ethnopharmacology and Ethnobotany in herbal drug evaluation.	2	1	2	1.666667
	CO5: Analytical Profiles of herbal drugs.	1	2	3	2
	Average: 1.933	1.8	1.6	2.4	1.93
MPG 203T Indian Systems of Medicine	Students should be able to learn CO1: To understand the basic principles of various Indian systems of medicine.	2	2	1	1.666667
	CO2: To know the clinical research of traditional medicines, Current Good Manufacturing Practice of Indian systems of medicine and their formulations.	3	2	1	2
	CO3: Formulation development of various systems of medicine.	2	1	3	2
	CO4: Schedule T – Good Manufacturing Practice of Indian systems of medicine.	1	2	2	1.666667
	CO5: TKDL, Geographical indication Bill.	1	2	2	1.666667
	Average: 1.8	1.8	1.8	1.8	1.8
	Students should be able to learn	3	3	3	3




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MPG 204T Herbal Cosmetics	CO1: Understand the basic principles of various herbal/natural cosmetic preparations.				
	CO2: Current Good Manufacturing Practices of herbal/natural cosmetics as per the regulatory authorities.	3	2	3	2.666667
	CO3: Formulation and evaluation of Cosmeceuticals of herbal and natural origin.	3	1	3	2.333333
	CO4: Preparation and standardization of Tonic, Bleaches, Dentifrices, and Mouthwashes & Tooth Pastes, Cosmetics for Nails.	3	2	3	2.666667
	Average: 2.666667	3	2	3	2.66
MPG 205P Herbal Cosmetics	Students should be able to learn	3	2	3	
	CO1: Prepare & evaluate Ayurvedic, Siddha, Homeopathy, Unani, Herbal medicinal and cosmetic formulations.				2.666667
	CO2: Conduct evaluation of crude drugs by physicochemical parameters.	3	1	2	2
	CO3: Discuss various plant tissue culture techniques.	2	2	3	2.333333
	CO4: Able to handle various	3	2	3	2.666667




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	equipments as per SOPs & learn various demonstrations (of experiments).				
	Average: 2.4166	2.75	1.75	2.75	2.4
MRM 301T Research Methodology & Biostatistics	Students should be able to learn				
	CO1: General Research Methodology.	3	3	2	2.666667
	CO2: Biostatistics Definition, application, sample size, type of significance tests, parametric tests (students "t" test, ANOVA, Correlation coefficient, regression).	3	3	3	3
	CO3: Medical Research.	2	3	3	2.666667
	CO4: CPCSEA guidelines for laboratory animal facility.	3	2	3	2.666667
	CO5: Declaration of Helsinki.	3	3	3	3
	Average: 2.8	2.8	2.8	2.8	2.8




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AVERAGE ATTAINMENTS OF PROGRAMMED OUTCOMES (POs) AND COURSE OUTCOMES (COs) FOR B. PHARMACY

Course Code/ Course Name	PO's											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	Average
First Year B. Pharm Semester I												
BP101T Human Anatomy And Physiology-I	3	-	2.333	1.3333	-	-	-	2.5	2.5	0.5	2	1.287
BP102T Pharmaceutical Analysis	3	2.333	2.5	1	1	1	2	2	2	1.5	3	1.939
BP103T Pharmaceutics-I	3	2.4	2.8	2.2	-	-	-	-	0.2	-	0.8	1.0363
BP104T Pharmaceutical Inorganic Chemistry	3	1	1	-	-	2	-	-	1	1.6	3	1.145
BP 105T Communication Skill	3	2.5	1.166	2.8333	1.833	2.83	2.833	2	1.833	2.167	2.166	2.287
BP 106T	3	1.833	2.166	1	1.166	2.83	1.333	1.1666	2	1	1.8333	1.7575



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Remedial Biology												
BP 106T Remedial Mathematics	3	1.166	2.8333	2.5	1.5	1.16	1.833 3	1.1666	1.333	1.333	3	1.89393 9
BP107P Human Anatomy and Physiology	2.8	-	1.8	1.2	1.2	0.2	1	-	2	0.2	0.4	0.98181 8
BP108P Pharmaceutical Analysis	3	1.75	2.75	1.5	1	2	2	1	1	1.5	3	1.86363 6
BP109P Pharmaceutics-I	3	-	-	1.5	-	1.33	-	-	-	-	3	0.80303
BP110P Pharmaceutical Inorganic Chemistry	3	-	2	-	-	2	-	-	2.25	1.75	2.25	1.20454 5
BP111P Communication Skill	3	2.5	1.1666	2.8333	1.833	2.83	2.833 3	2	1.833 3	2.166	2.1666	2.28787 9
BP112RBP Remedial Biology	2	-	-	1.5	-	1	-	-	2	-	2.5	0.81818 2
BP 201T Human Anatomy and Physiology-II	2.33	0.166	0.5	2.3333	1	1.3333	1.333 3	2.166	1.666 6	2.833	2.3333	1.63636
BP 202T Pharmaceutical Organic Chemistry-I	2.83	2.66	2.66	2.666	2	1.166	2	2.166	3	1.166	2	2.21212 1
BP 203T Biochemistry	2.83	1.333	2.66	2.66	1.16	2.83	1.33	1.33	2	3	2.833	2.181



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BP204T Pathophysiology	1.67	0.833	0.5	1	1.8333	0.6667	1.166 7	1.833	0.833	1.166	1	1.09090 9
BP205T Computer Application In Pharmacy	2.83	1.16	3	2.83	2.16	2.83	1.33	1.16	2.66	2.83	2.66	2.318
5555T Environmental Studies	1.16	0.833	0.5	1	1.8333	0.6667	1.166 7	1.833	0.833	1.667	1	1.09090 9
BP207P Human Anatomy And Physiology-II	3	-	1.5	1.5	-	1	-	1	2.25	-	2.75	1.18181 8
BP208P Pharmaceutical Organic Chemistry-I	2.25	-	1.5	0.75	-	1	-	-	1.5	0.75	3	0.97727 3
BP209P Biochemistry	2.5	-	2.75	1.5	-	-	1	-	2	2	2.75	1.31818 2
BP210P Computer Applications In Pharmacy	2	-	-	3	-	-	-	2.25	1	-	3	1.02272 7
BP301T Organic Chemistry	3	3	2.5	2.66	2.83	1.83	1.5	2.66	2.16	2.16	2	2.393
BP302T Physical Pharmaceutics-I	3	1.83	1.83	2.5	3	1.66	2.66	1	1.83	2.83	2.83	2.272
BP303T Pharmaceutical Microbiology	3	1	1	0.5	0.167	1.333	0.666 7	0.5	0.833	1	0.8333	0.98484 8



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BP304 T Pharmaceutical Engineering	3	1.2	1.2	1	1	1.6	1	1	1.25	1.2	1.25	1.336
BP305P Pharmaceutical Organic Chemistry-II	3	-	1	-	-	1	-	-	-	-	2.6667	0.69697
BP306P Physical Pharmaceutics I	3	3	3	2	2.5	1	1	2.5	1	3	2.5	2.22727 3
BP307P Pharmaceutical Microbiology	3	1.2	1	0.6	0.2	1.2	0.6	0.6	0.8	0.8	0.6	0.96363 6
BP308P Pharmaceutical Engineering	3	1.25	1.25	2.75	1	1.75	-	1.5	0.5	1.5	2.5	1.54545 5
BP401T Organic Chemistry-III	3	1.333	1.5	2	1	2	1.5	1	1.667	1	3	1.72727 3
BP402T Medicinal Chemistry	3	1.66	0.66	1.5	1.667	1.833	1.833	0.83	1.667	1.833	1.333	1.62121 2
BP403 Physical Pharmaceutics- II	3	2.66	2.5	2.33	2.5	3	2	2.33	3	2	2.66	2.545
BP404T Pharmacology	1.83	3	2.16	2.83	1	1.83	1	2.16	1	3	3	2.075
BP405 T Pharmacognosy and	2.5	2.4	2.16	2.5	1.66	1.83	1.4	1.66	1.16	2	2.5	1.981



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Phytochemistry													
BP406P													1.09090
Medicinal Chemistry-I	1	1	1.666	1.666	-	-	1	1.66	1	1	2		
BP407P													2.47727
Physical Pharmaceutical II	3	2.5	3	2	2	3	1.25	3	1.5	3	3		
BP408P													1.78181
Pharmacology-I	2.8	1.4	1.4	1.8	1.2	1.4	1.6	2	1.6	1.6	2.8		8
BP409P													2.41666
Pharmacognosy & Phytochemistry-I	2.5	2	0.75	1.25	1.25	-	1.5	-	1.5	1.25	2.5		
BP 501T													2.12
Medicinal Chemistry	2.66	2.83	1.16	2.83	2	3	2	1.83	1.66	1.16	2.16		
BP 502T													1.68181
Industrial Pharmacy-I	1.33	1.83	1.166	1.333	2.5	1.166	1.833	1.333	2.833	2	1.1667		8
BP 503T													2.015
Pharmacology-II	2.83	1.83	1.83	1.83	1.33	2.83	2.83	1.16	2.66	1.83	1.16		
BP504T													2.287
Pharmacognosy and Phytochemistry	2.5	2.66	2.16	1.5	2.5	2	2.16	2.33	2.33	2.5	2.5		
BP 505T													2.06060
Pharmaceutical Jurisprudence	3	1.333	1.5	1	1.833	2.833	3	1.666	3	1	2.5		
BP506P													1.30909
Industrial Pharmacy-I	2.8	1.4	2.2	2.4	-	1.2	0.4	-	1.2	0.2	2.6		



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BP507P Pharmacology-II	2.25	1	0.75	2	-	1.5	0.75	-	1.5	-	2.75	1.13636
BP508P Pharmacognosy and Phytochemistry-II	2.5	1	1.25	2	-	1.5	-	-	2	0.75	2.25	1.20454
BP601T Medicinal Chemistry-III	3	1.333	2.166	3	-	0.333	0.166	1.33	0.333	1	2.5	1.37878
BP602T Pharmacology	2.66	1.83	2	2.66	1.83	2.66	2	1.16	1.83	1.66	2.16	2.045
BP603T Herbal Drug Technology	2.66	2.66	2.66	2.83	2.66	2.5	2	2.5	1.83	2.5	2.5	2.484
BP 604T Biopharmaceutics & Pharmacokinetics	3	1.66	1.83	2.66	1.33	1.5	2.833	1.66	2.5	1	2.5	2.04545 5
BP 605 T Pharmaceutical Biotechnology	3	2.5	3	2.5	1.66	1.33	2	2.16	2.166	1.5	2.66	2.22727 3
BP 606 T Pharmaceutical Quality Assurance	2.6666	2.166	2.5	2.333	1.833	1.166	1.833	2.16	2.166	2	2.66	2.13636 4
BP607P Medicinal Chemistry-III	3	3	3	3	0.75	0.75	-	1.5	1	1	3	1.81818 2
BP608P Pharmacology -III	2.25	1.25	2.25	1.25	-	1	-	-	1.5	1	2.25	1.15909 1
BP609P	2.4	1.8	0.4	1.4	-	-	1	0.4	-	1.2	2.4	1



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Herbal Drug Technology												
BP701T Instrumental Method of Analysis	3	1	2	3	1	1	2	1	3	3	3	2.166667
BP 702T Industrial Pharmacy-II	2.66	1.83	2	1.5	1.833	2.166	2	1.33	1.66	0.66	2.5	1.833333
BP703T Pharmacy Practice	2.66	2.83	2.83	2.66	2.83	2.83	2.66	2.66	2.83	2.66	2.66	2.742
BP704T Novel Drug Delivery Systems	2.66	1.22	2.55	2.75	1.666	1.77	2.888	1.77	1.555	2.333	2.888	2.189
BP706PS Practice School	2.5	2.5	2.5	2.66	2.5	2.33	2.33	2.66	2.33	2.33	2.33	2.45
BP705P Instrumental Methods of Analysis	3	1	2	3	1	1	2	1	3	3	3	2.1666
BP801T Biostat And Research Methodology	2.66	2.66	2.66	2.16	2.16	1.83	1.83	1.83	1.83	1.83	2.83	2.212
BP 802T Social And Preventive Pharmacy	1.66	2	1.5	1.83	2.6	2	1.8	2.16	2	1.5	2.5	1.960
BP804ET Pharmaceutical Regulatory Science	3	1	-	0.333	1.5	2	-	1.66	1.666	2	2.1666	1.393



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BP806ET Quality Control and Standardization of Herbals	3	1.33	3	3	2	3	3	3	3	3	3	2.757
BP813PW Project Work	3	2.66	3	3	1.16	1.5	2.16	2.16	2.16	2.16	3	2.363
AVERAGE												1.74721
	2.6784	1.5442	1.8018	1.9256	1.2201	1.5534	1.340	1.3586	1.701	1.5452	2.3530	1.72920 9



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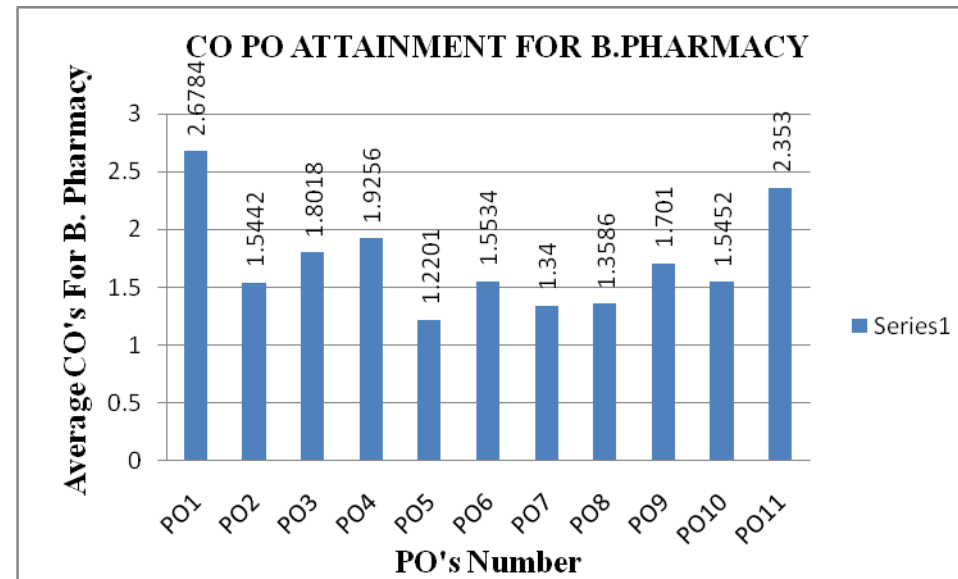
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AVERAGE ATTAINMENTS OF PROGRAMMED OUTCOMES (PO) AND COURSE OUTCOMES (CO) FOR M. PHARMACY

Course Code/Course Name	POs			
	PO1	PO2	PO3	Average
MPH101T Instrumental Analysis	2.8333	1.8333	1.66666	2.11108667
MPH102T Drug Delivery System	3	1.3333	2	2.1111
MPH103T Modern Pharmaceutics	2.4	2.2	2.2	2.26666667
MPH104 Regulatory Affairs	2.5	2.6666	2.66666	2.61108667
MPH 105T Pharmaceutics Practical	2.8	1.8	2.6	2.4
MPH 201T Molecular Pharmaceutics	3	2	2.3333	2.44443333
MPH 202T Advanced Biopharmaceutics & Pharmacokinetics	2.4	1.6	1.6	1.86666667
MPH 203T Computer Aided Drug Development	1.875	1.125	2.25	1.75
MPH 204T Cosmetics And Cosmeceuticals	2.8	1.8	2.6	2.4




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MPH 205P Pharmaceutics Practical II	2.5	1.75	2.75	2.33333333
MPG101T Instrumental Analysis	2.8333	1.8333	1.66666	2.11108667
MPG 102T Advanced Pharmacognosy - I	2.2	2.2	2.4	2.26666667
MPG 103T Phytochemistry	2.5	2.25	2.75	2.5
MPG 104T Industrial Pharmacognostical Technology	2.66667	2.3333	2.6666	2.55552233
MPG 105P Pharmacognosy	2.66667	2	2.6666	2.44442233
MPG 201T Medicinal Plant Biotechnology	2.25	1.75	1.5	1.83333333
MPG 202T Advanced Pharmacognosy - II	1.8	1.6	2.4	1.93333333
MPG 203T Indian Systems of Medicine	1.8	1.8	1.8	1.8
MPG 204T Herbal Cosmetics	3	2	3	2.66666667
MPG 205P Herbal Cosmetics	2.75	1.75	2.75	2.41666667
MRM 301T Research Methodology &	2.8	2.8	2.8	2.8



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Biostatistics				
Average				2.26771356
	2.5496	1.9234	2.34285	2.27195165



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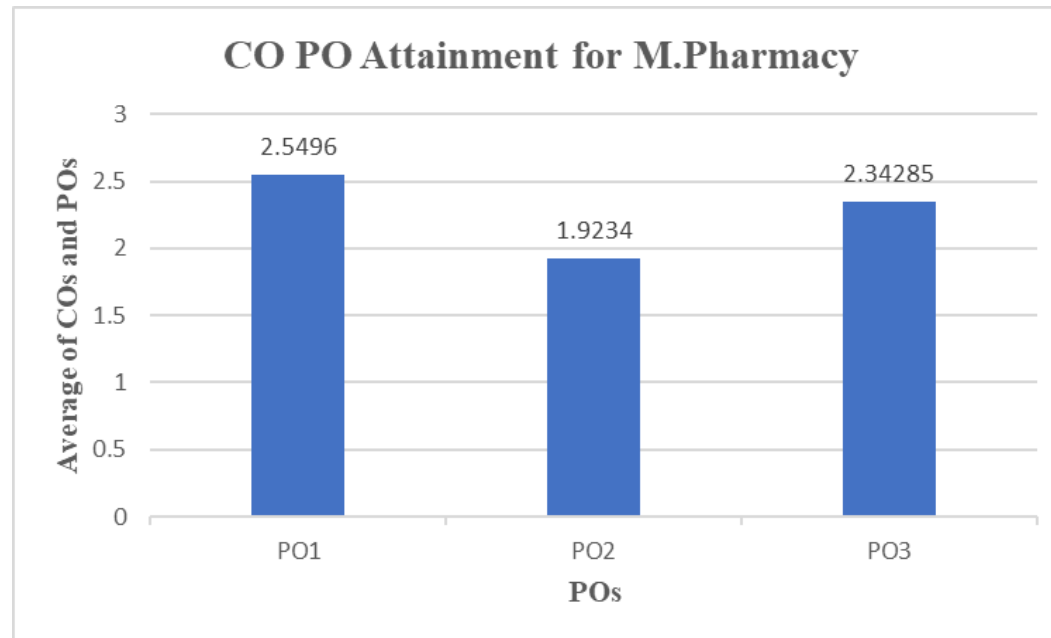
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GRAPHICAL REPRESENTATION OF AVERAGE ATTAINMENTS OF PROGRAMMED OUTCOMES (PO) AND COURSE OUTCOMES (CO) FOR M.PHARMACY



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AVERAGE ATTAINMENTS OF PROGRAMMED OUTCOMES (PO) AND COURSE OUTCOMES (CO) FOR B. PHARMACY ACCORDING TO EACH SUBJECT AND SEMESTER

FIRST YEAR B.PHARMACY SEMESTER I

Course Code/ Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	AVERAGE
BP101T Human Anatomy And Physiology-I	3	-	2.333	1.3333	-	-	-	2.5	2.5	0.5	2	1.287
BP102T Pharmaceutical Analysis	3	2.333	2.5	1	1	1	2	2	2	1.5	3	1.939
BP103T Pharmaceutics-I	3	2.4	2.8	2.2	-	-	-	-	0.2	-	0.8	1.0363
BP104T Pharmaceutical Inorganic Chemistry	3	1	1	-	-	2	-	-	1	1.6	3	1.145
BP 105T Communication Skill	3	2.5	1.166	2.8333	1.833	2.83	2.833	2	1.833	2.167	2.166	2.287
BP 106T Remedial Biology	3	1.833	2.166	1	1.166	2.83	1.333	1.166 6	2	1	1.8333	1.7575
BP 106T Remedial Mathematics	3	1.166	2.833 3	2.5	1.5	1.16	1.8333	1.166 6	1.333	1.333	3	1.893939
BP107P Human Anatomy and Physiology	2.8	-	1.8	1.2	1.2	0.2	1	-	2	0.2	0.4	0.981818



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BP108P Pharmaceutical Analysis	3	1.75	2.75	1.5	1	2	2	1	1	1.5	3	1.863636
BP109P Pharmaceutics-I	3	-	-	1.5	-	1.33	-	-	-	-	3	0.80303
BP110P Pharmaceutical Inorganic Chemistry	3	-	2	-	-	2	-	-	2.25	1.75	2.25	1.204545
BP111P Communication Skill	3	2.5	1.166 6	2.8333	1.833	2.83	2.8333	2	1.833 3	2.166	2.1666	2.287879
BP112RBP Remedial Biology	2	-	-	1.5	-	1	-	-	2	-	2.5	0.818182
AVERAGE												1.484987
	2.9076 92	1.190 923	1.731 915	1.4923	0.7332 31	1.47 5385	1.06404 6	0.910 246	1.534 562	1.0550 77	2.2396 85	1.485006



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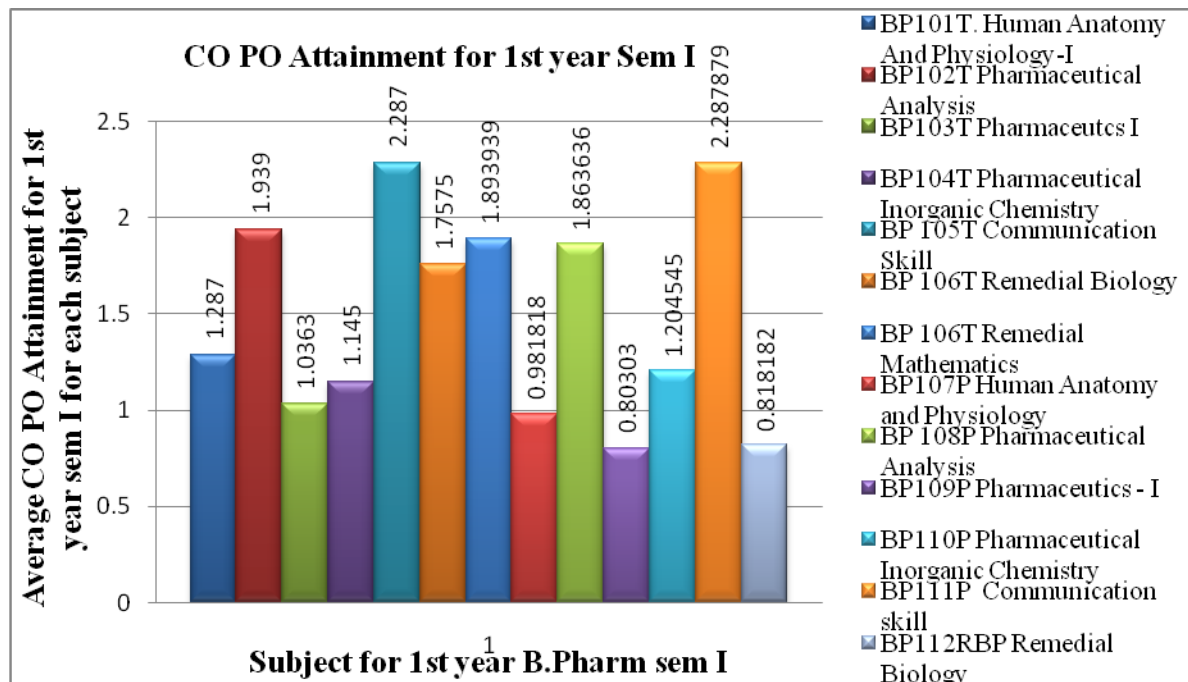
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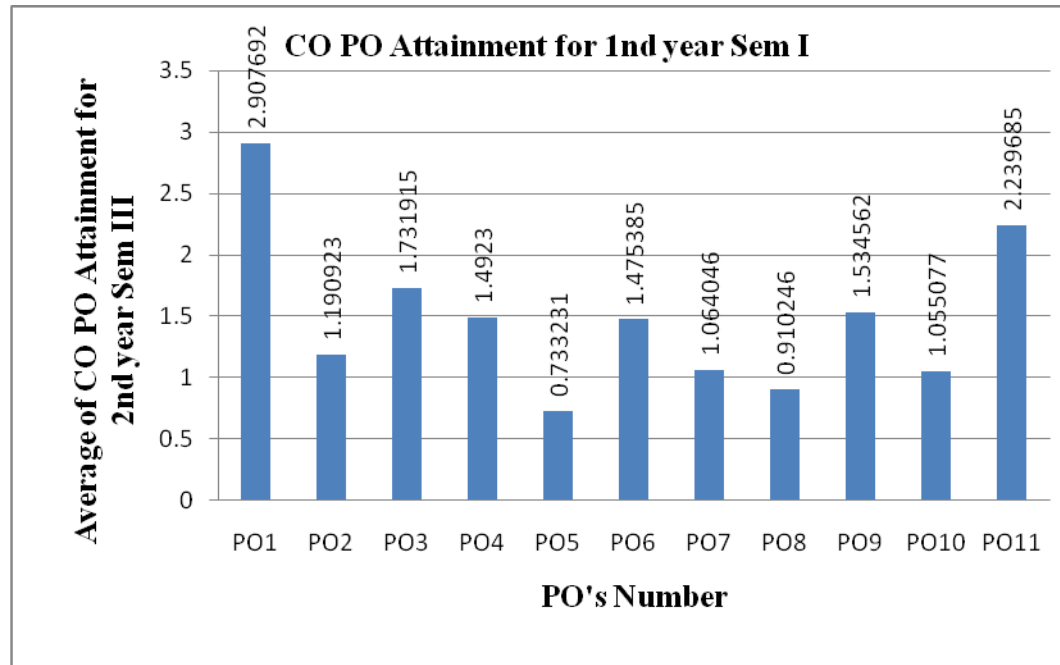
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FIRST YEAR B.PHARMACY SEMESTER II												
Course Code/ Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	AVERAGE
BP 201T Human Anatomy and Physiology-II	2.33	0.166	0.5	2.3333	1	1.3333	1.333 3	2.166	1.666 6	2.833	2.3333	1.63636
BP 202T Pharmaceutical Organic Chemistry-I	2.83	2.66	2.66	2.666	2	1.166	2	2.166	3	1.166	2	2.212121
BP 203T Biochemistry	2.83	1.333	2.66	2.66	1.16	2.83	1.33	1.33	2	3	2.833	2.181
BP204T Pathophysiology	1.67	0.833	0.5	1	1.8333	0.6667	1.166 7	1.833	0.833	1.166	1	1.090909
BP205T Computer Application In Pharmacy	2.83	1.16	3	2.83	2.16	2.83	1.33	1.16	2.66	2.83	2.66	2.318
5555T Environmental Studies	1.16	0.833	0.5	1	1.8333	0.6667	1.166 7	1.833	0.833	1.667	1	1.090909
BP207P Human Anatomy And Physiology-II	3	-	1.5	1.5	-	1	-	1	2.25	-	2.75	1.181818
BP208P Pharmaceutical Organic Chemistry-I	2.25	-	1.5	0.75	-	1	-	-	1.5	0.75	3	0.977273



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BP209P Biochemistry	2.5	-	2.75	1.5	-	-	1	-	2	2	2.75	1.318182
BP210P Computer Applications In Pharmacy	2	-	-	3	-	-	-	2.25	1	-	3	1.022727
AVERAGE												1.50293
	2.34	0.6985	1.557	1.9239 3	0.9986 6	1.1492 7	0.932 67	1.3738	1.774 26	1.5412	2.3326 3	1.511084



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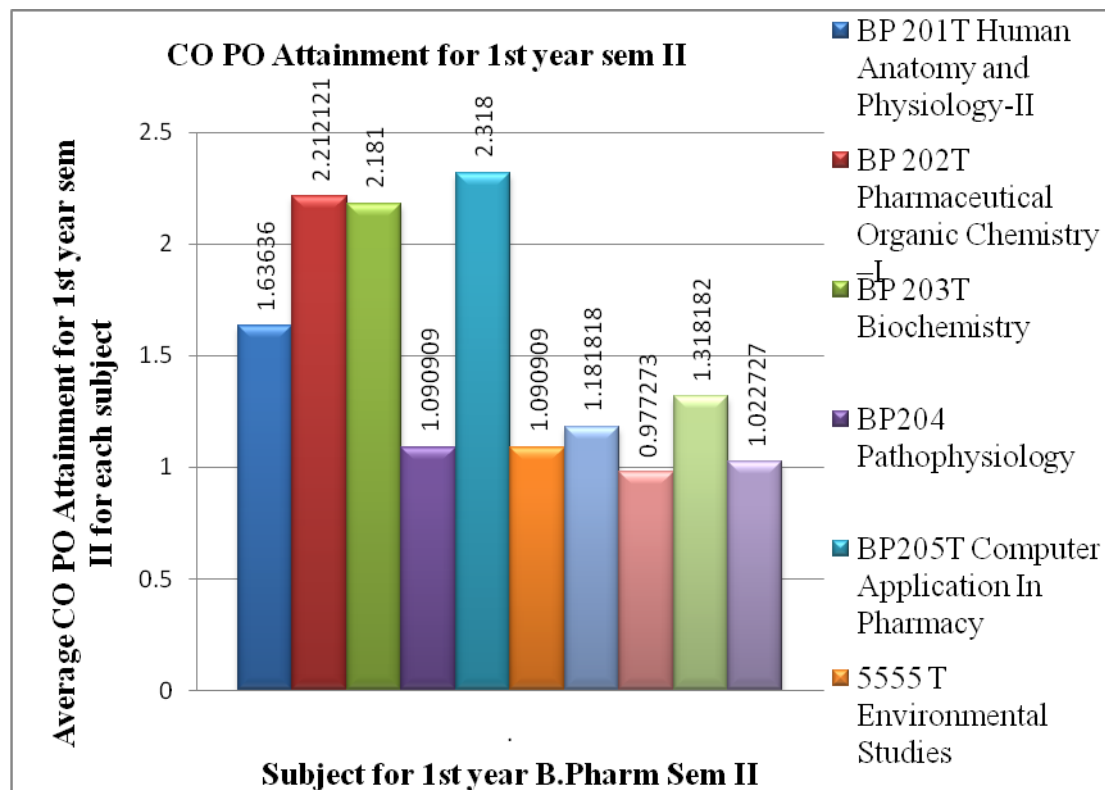
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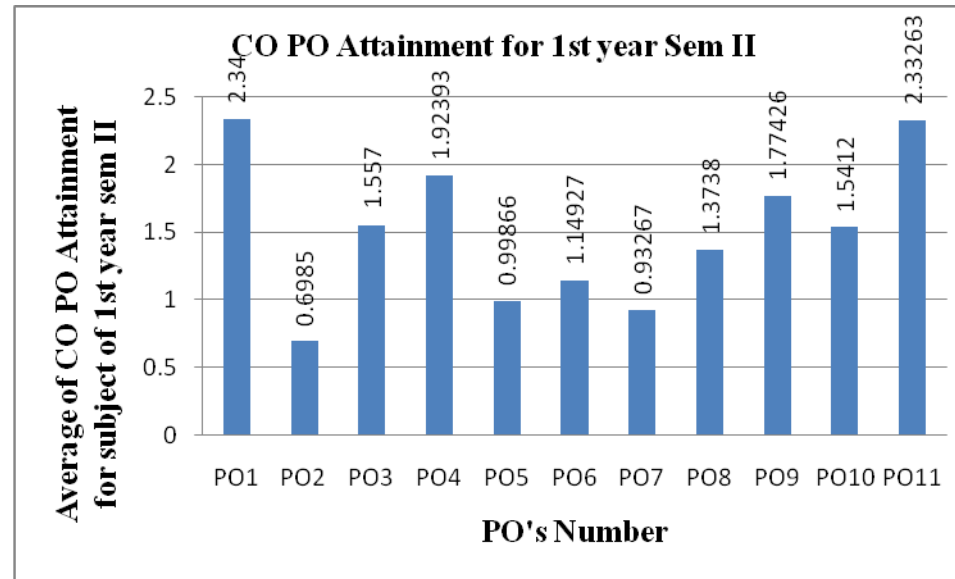
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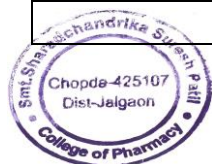
President

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SECOND YEAR B.PHARMACY SEMESTER III

Course Code/ Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	AVERAGE
BP301T Organic Chemistry	3	3	2.5	2.66	2.83	1.83	1.5	2.66	2.16	2.16	2	2.393
BP302T Physical Pharmaceutics-I	3	1.83	1.83	2.5	3	1.66	2.66	1	1.83	2.83	2.83	2.272
BP303T Pharmaceutical Microbiology	3	1	1	0.5	0.167	1.333	0.666 7	0.5	0.833	1	0.8333	0.984848
BP304 T Pharmaceutical Engineering	3	1.2	1.2	1	1	1.6	1	1	1.25	1.2	1.25	1.336
BP305P Pharmaceutical Organic Chemistry-II	3	-	1	-	-	1	-	-	-	-	2.6667	0.69697
BP306P Physical Pharmaceutics I	3	3	3	2	2.5	1	1	2.5	1	3	2.5	2.227273
BP307P Pharmaceutical Microbiology	3	1.2	1	0.6	0.2	1.2	0.6	0.6	0.8	0.8	0.6	0.963636
BP308P Pharmaceutical Engineering	3	1.25	1.25	2.75	1	1.75	-	1.5	0.5	1.5	2.5	1.545455
												1.552398



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AVERAGE												
	3	1.7828 57	1.5975	1.7157 14	1.5281 43	1.4216 25	1.237 783	1.3942 86	1.196 143	1.7842 86	1.8975	1.686894



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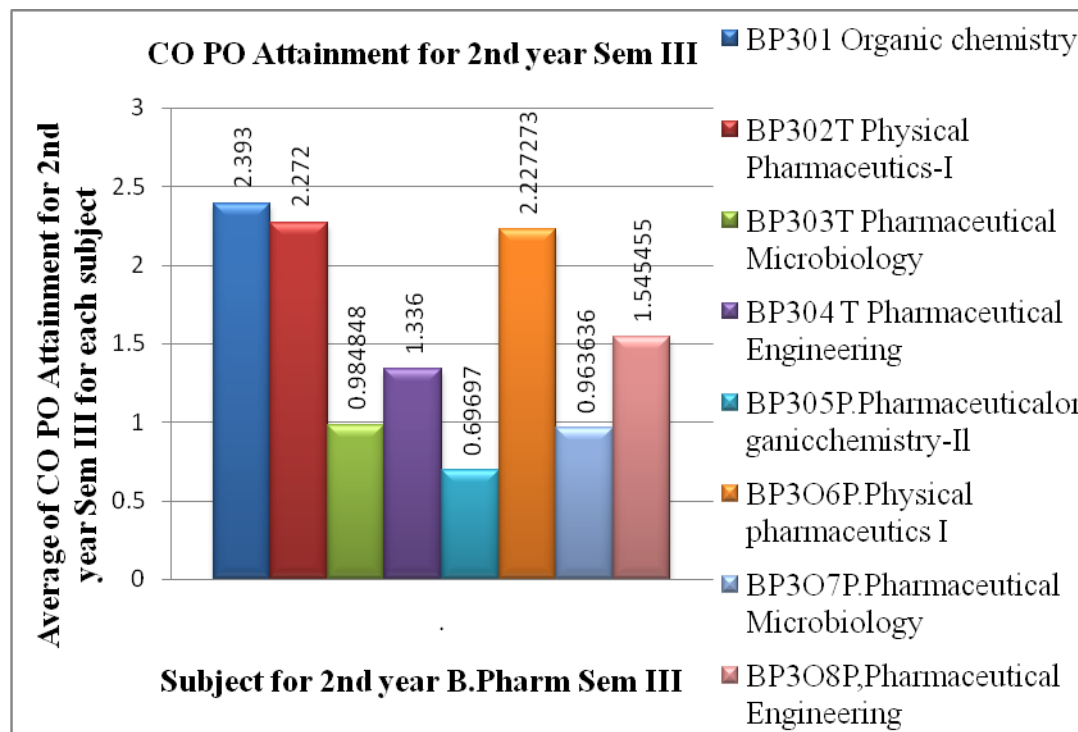
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CO PO ATTAINMENT ACCORDING TO SUBJECT FOR SECOND YEAR SEMESTER III



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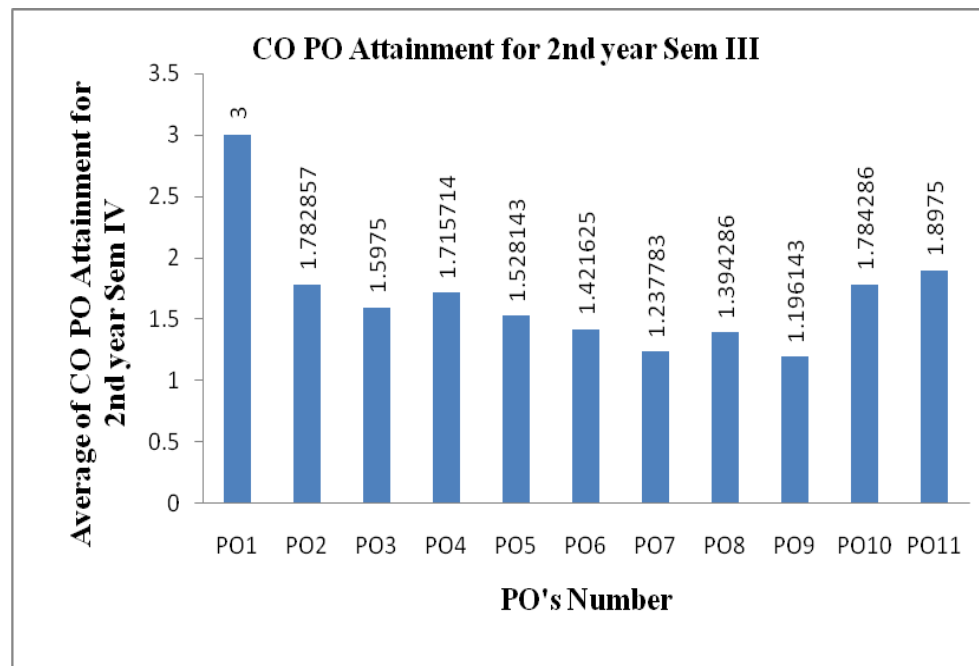
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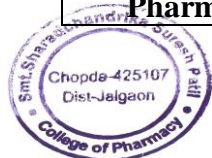
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SECOND YEAR B.PHARMACY SEMESTER IV

Course Code/ Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	AVERAGE
BP401T Organic Chemistry-III	3	1.333	1.5	2	1	2	1.5	1	1.667	1	3	1.727273
BP402T Medicinal Chemistry	3	1.66	0.66	1.5	1.667	1.833	1.833	0.83	1.667	1.833	1.333	1.621212
BP403 Physical Pharmaceutics- II	3	2.66	2.5	2.33	2.5	3	2	2.33	3	2	2.66	2.545
BP404T Pharmacology	1.83	3	2.16	2.83	1	1.83	1	2.16	1	3	3	2.075
BP405 T Pharmacognosy and Phytochemistry	2.5	2.4	2.16	2.5	1.66	1.83	1.4	1.66	1.16	2	2.5	1.981
BP406P Medicinal Chemistry-I	1	1	1.666	1.666	-	-	1	1.66	1	1	2	1.09090
BP407P Physical Pharmaceutical II	3	2.5	3	2	2	3	1.25	3	1.5	3	3	2.47727
BP408P Pharmacology-I	2.8	1.4	1.4	1.8	1.2	1.4	1.6	2	1.6	1.6	2.8	1.781818
BP409P Pharmacognosy &	2.5	2	0.75	1.25	1.25	-	1.5	-	1.5	1.25	2.5	2.41666



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Phytochemistry-I												
AVERAGE												1.968459
	2.514444	1.9947 78	1.7551 11	1.9862 22	1.3641 11	1.6547 78	1.453 667	1.6266 67	1.566	1.8536 67	2.5325 56	1.84563



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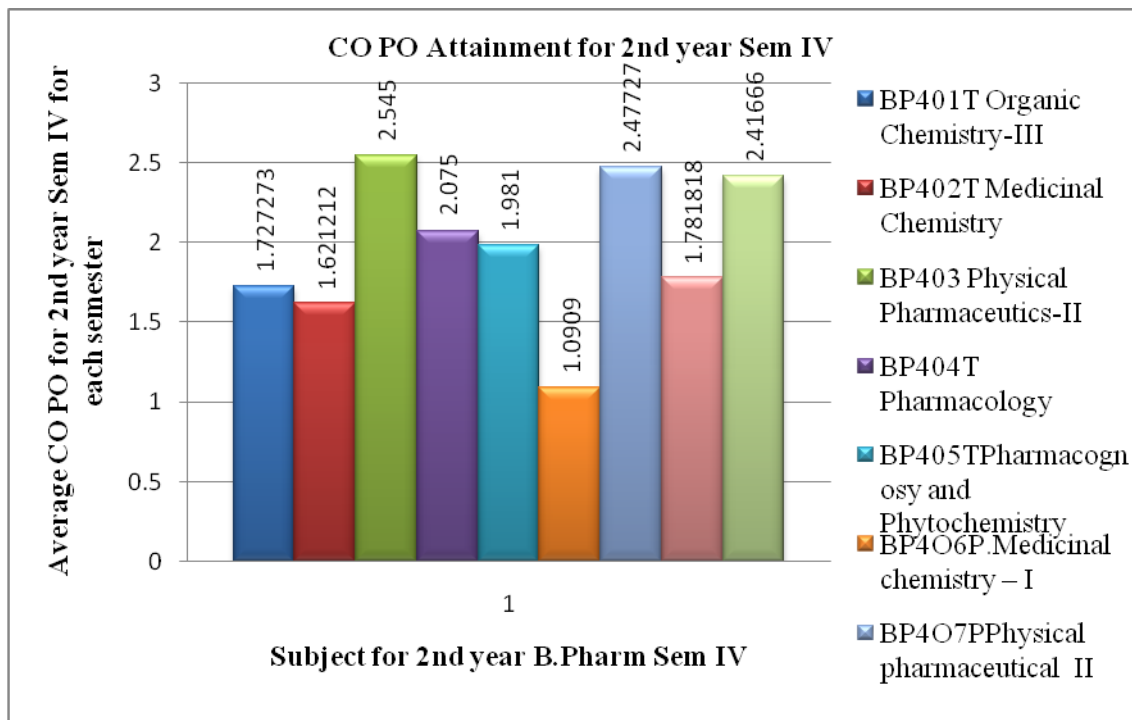
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Adv. Sandeep S. Patil
President

Dr. G. P. Vadnere
Principal



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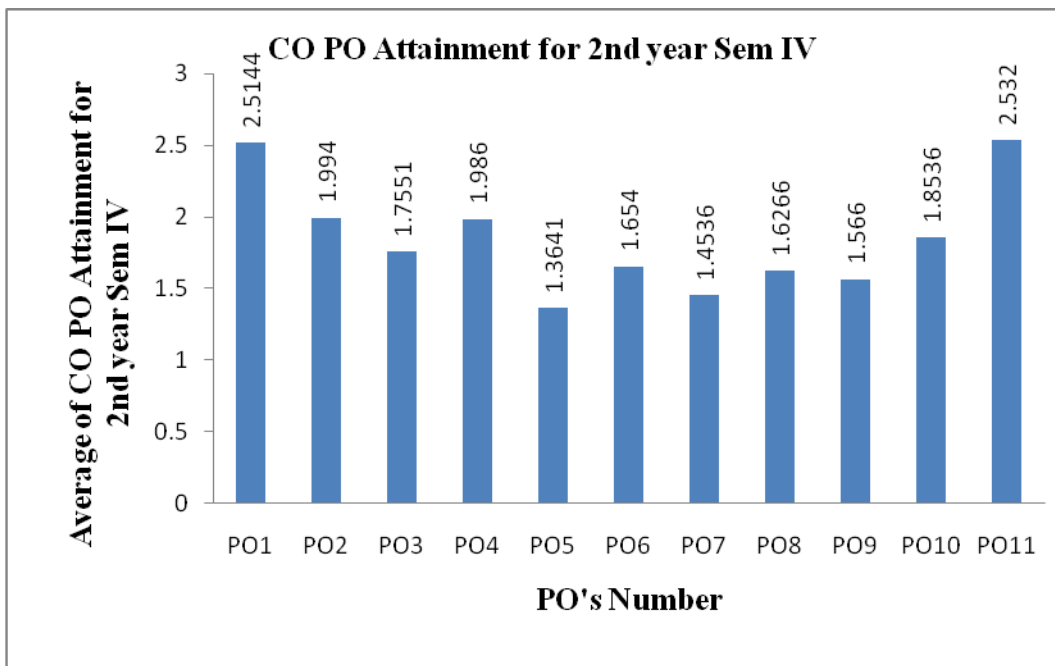
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THIRD YEAR B.PHARMACY SEMESTER V

Course Code/ Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	AVERAGE
BP 501T Medicinal Chemistry	2.66	2.83	1.16	2.83	2	3	2	1.83	1.66	1.16	2.16	2.12
BP 502T Industrial Pharmacy-I	1.33	1.83	1.166	1.333	2.5	1.166	1.833	1.333	2.833	2	1.1667	1.681818
BP 503T Pharmacology-II	2.83	1.83	1.83	1.83	1.33	2.83	2.83	1.16	2.66	1.83	1.16	2.015
BP504T Pharmacognosy and Phytochemistry	2.5	2.66	2.16	1.5	2.5	2	2.16	2.33	2.33	2.5	2.5	2.287
BP 505T Pharmaceutical Jurisprudence	3	1.333	1.5	1	1.833	2.833	3	1.666	3	1	2.5	2.06060
BP506P Industrial Pharmacy-I	2.8	1.4	2.2	2.4	-	1.2	0.4	-	1.2	0.2	2.6	1.30909
BP507P Pharmacology-II	2.25	1	0.75	2	-	1.5	0.75	-	1.5	-	2.75	1.13636
BP508P Pharmacognosy and Phytochemistry-II	2.5	1	1.25	2	-	1.5	-	-	2	0.75	2.25	1.20454
AVERAGE												1.72680
	2.48375	1.7353	1.502	1.8616	1.2703	2.0036	1.621	1.0398	2.147	1.18	2.1358	1.72563



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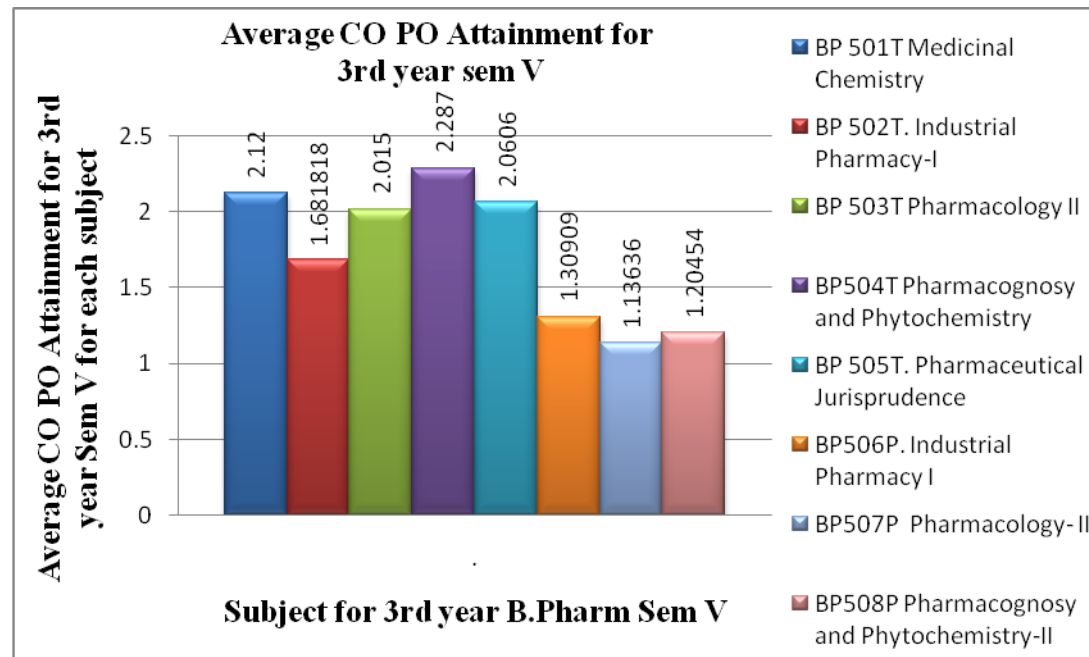
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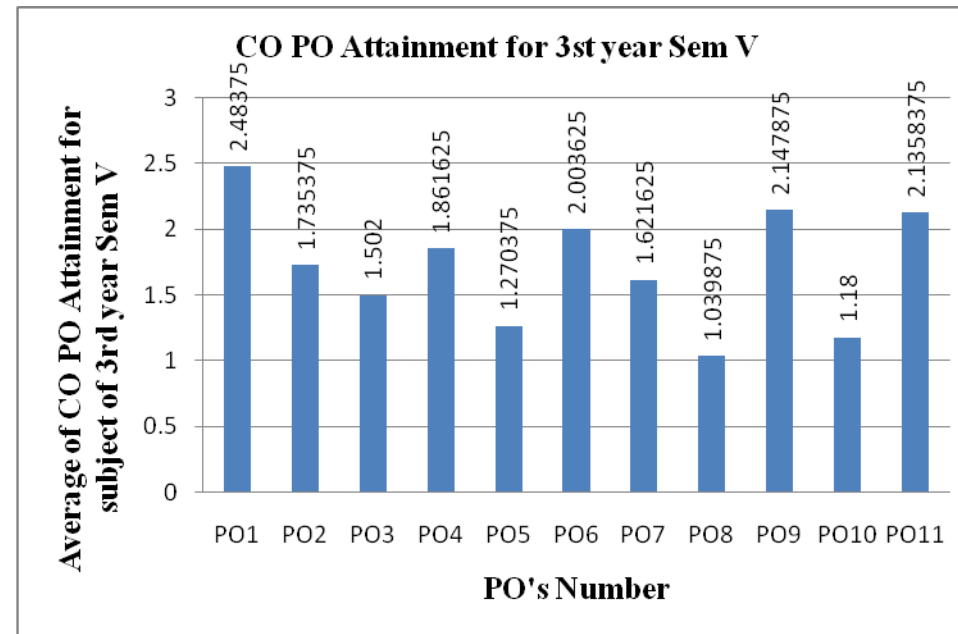
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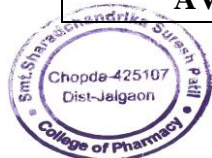
President


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THIRD YEAR B.PHARMACY SEMESTER VI

Course Code/ Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	AVERAGE
BP601T Medicinal Chemistry-III	3	1.333	2.166	3	-	0.333	0.166	1.33	0.333	1	2.5	1.37878
BP602T Pharmacology	2.66	1.83	2	2.66	1.83	2.66	2	1.16	1.83	1.66	2.16	2.045
BP603T Herbal Drug Technology	2.66	2.66	2.66	2.83	2.66	2.5	2	2.5	1.83	2.5	2.5	2.484
BP 604T Biopharmaceutics & Pharmacokinetics	3	1.66	1.83	2.66	1.33	1.5	2.833	1.66	2.5	1	2.5	2.045455
BP 605 T Pharmaceutical Biotechnology	3	2.5	3	2.5	1.66	1.33	2	2.16	2.166	1.5	2.66	2.227273
BP 606 T Pharmaceutical Quality Assurance	2.6666	2.166	2.5	2.333	1.833	1.166	1.833	2.16	2.166	2	2.66	2.136364
BP607P Medicinal Chemistry-III	3	3	3	3	0.75	0.75	-	1.5	1	1	3	1.818182
BP608P Pharmacology -III	2.25	1.25	2.25	1.25	-	1	-	-	1.5	1	2.25	1.159091
BP609P Herbal Drug Technology	2.4	1.8	0.4	1.4	-	-	1	0.4	-	1.2	2.4	1
AVERAGE												1.81046




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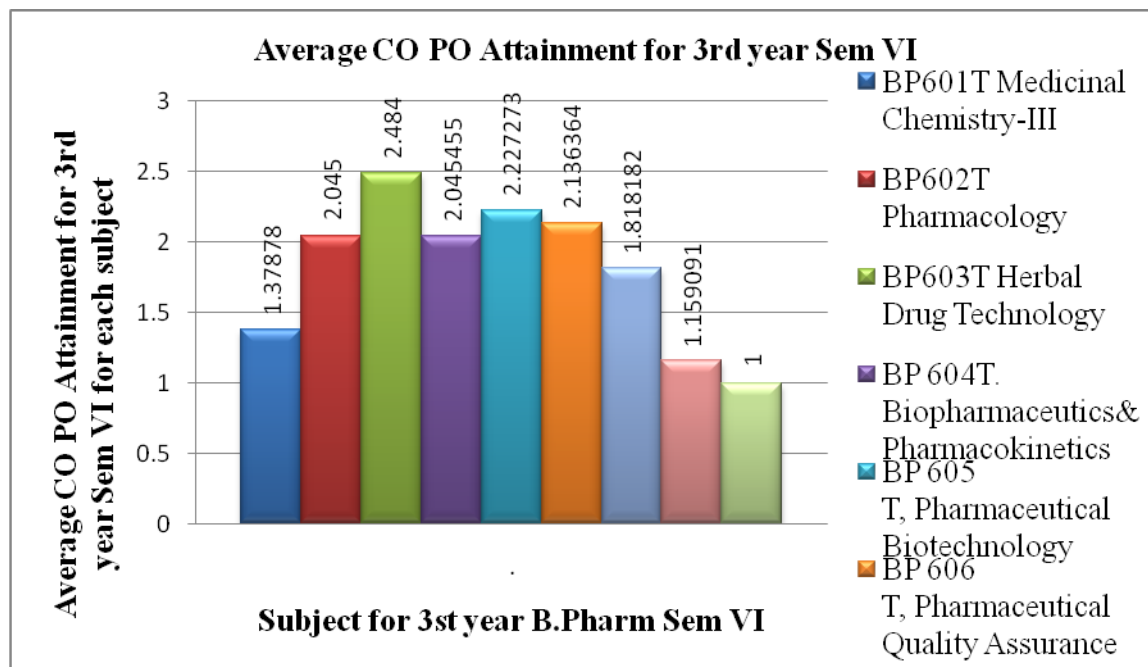
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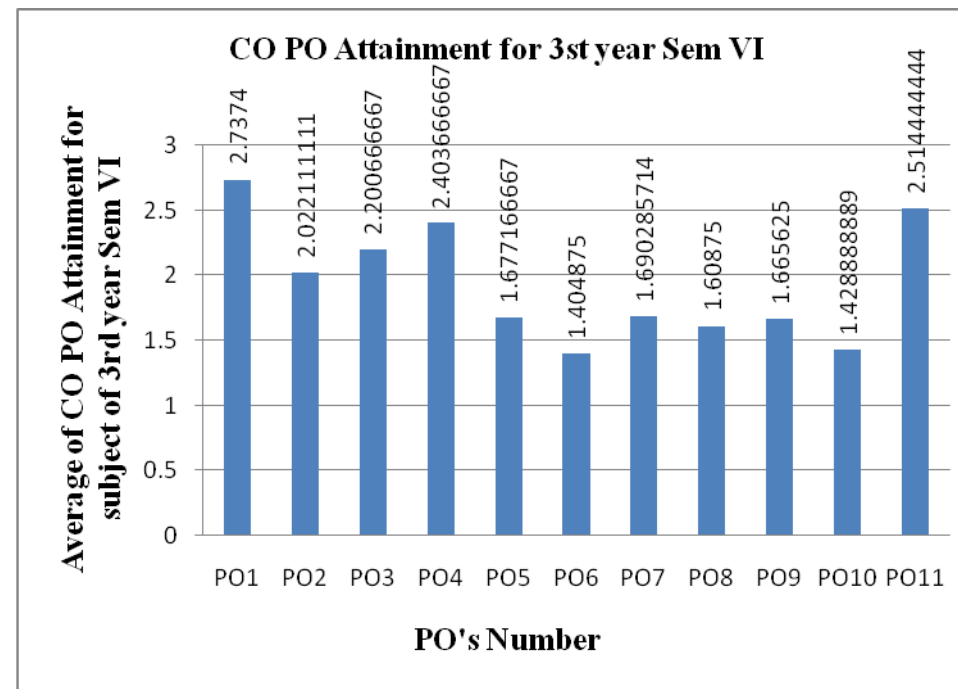
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FINAL YEAR B.PHARMACY SEMESTER VII

Course Code/ Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	AVERAGE
BP701T Instrumental Method of Analysis	3	1	2	3	1	1	2	1	3	3	3	2.166667
BP 702T Industrial Pharmacy-II	2.66	1.83	2	1.5	1.833	2.166	2	1.33	1.66	0.66	2.5	1.833333
BP703T Pharmacy Practice	2.66	2.83	2.83	2.66	2.83	2.83	2.66	2.66	2.83	2.66	2.66	2.742
BP704T Novel Drug Delivery Systems	2.66	1.22	2.55	2.75	1.666	1.77	2.888	1.77	1.555	2.333	2.888	2.189
BP706PS Practice School	2.5	2.5	2.5	2.66	2.5	2.33	2.33	2.66	2.33	2.33	2.33	2.45
BP705P Instrumental Methods of Analysis	3	1	2	3	1	1	2	1	3	3	3	2.1666
AVERAGE												2.257933
	2.7466	1.73	2.313333	2.595	1.804833	1.849333	2.313	1.736667	2.395833	2.3305	2.729667	2.23134




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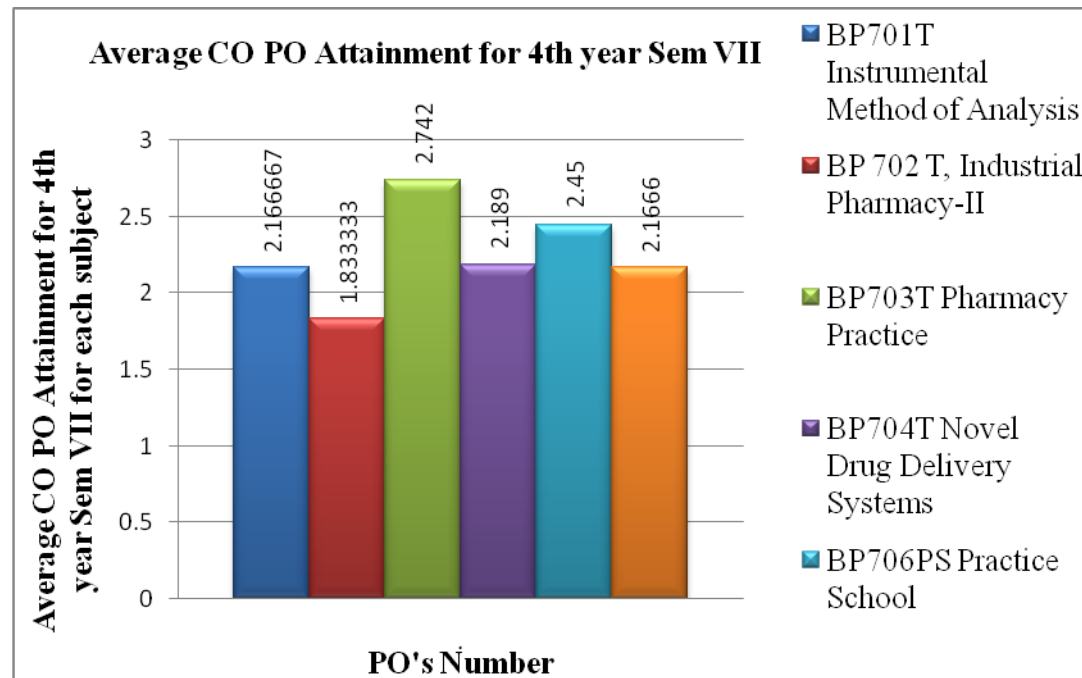
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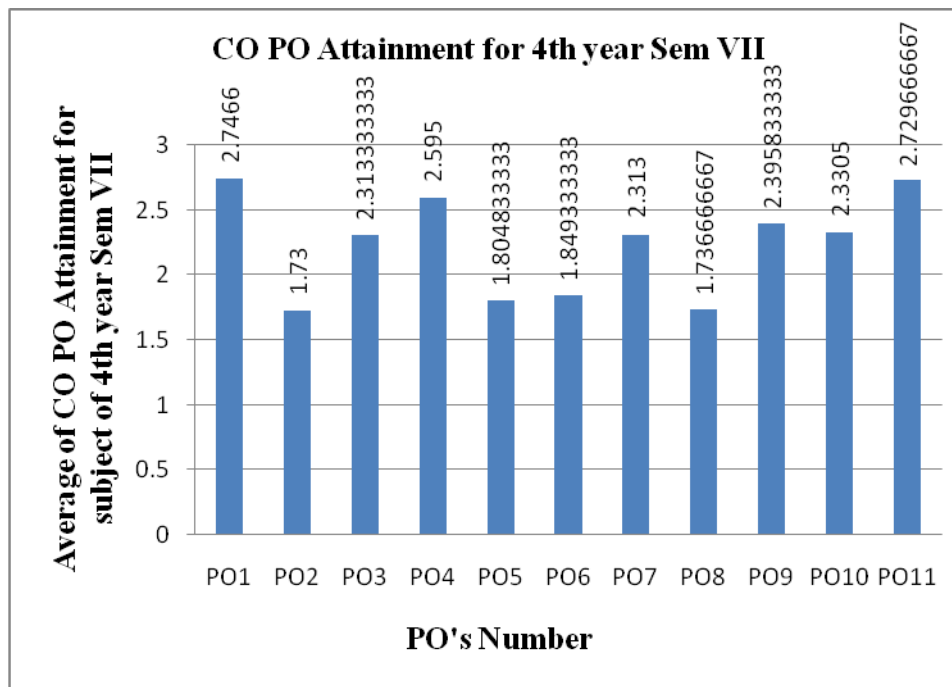
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President

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FINAL YEAR B.PHARMACY SEMESTER VIII

Course Code/ Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	AVERA GE
BP801T Biostat And Research Methodology	2.66	2.66	2.66	2.16	2.16	1.83	1.83	1.83	1.83	1.83	2.83	2.212
BP 802T Social And Preventive Pharmacy	1.66	2	1.5	1.83	2.6	2	1.8	2.16	2	1.5	2.5	1.960
BP804ET Pharmaceutical Regulatory Science	3	1	-	0.333	1.5	2	-	1.66	1.666	2	2.1666	1.393
BP806ET Quality Control and Standardization of Herbals	3	1.33	3	3	2	3	3	3	3	3	3	2.757
BP813PW Project Work	3	2.66	3	3	1.16	1.5	2.16	2.16	2.16	2.16	3	2.363
AVERAGE												2.137
	2.664	1.93	2.54	2.0646	1.884	2.066	2.197 5	2.162	2.131 2	2.098	2.6993 2	2.22151 1




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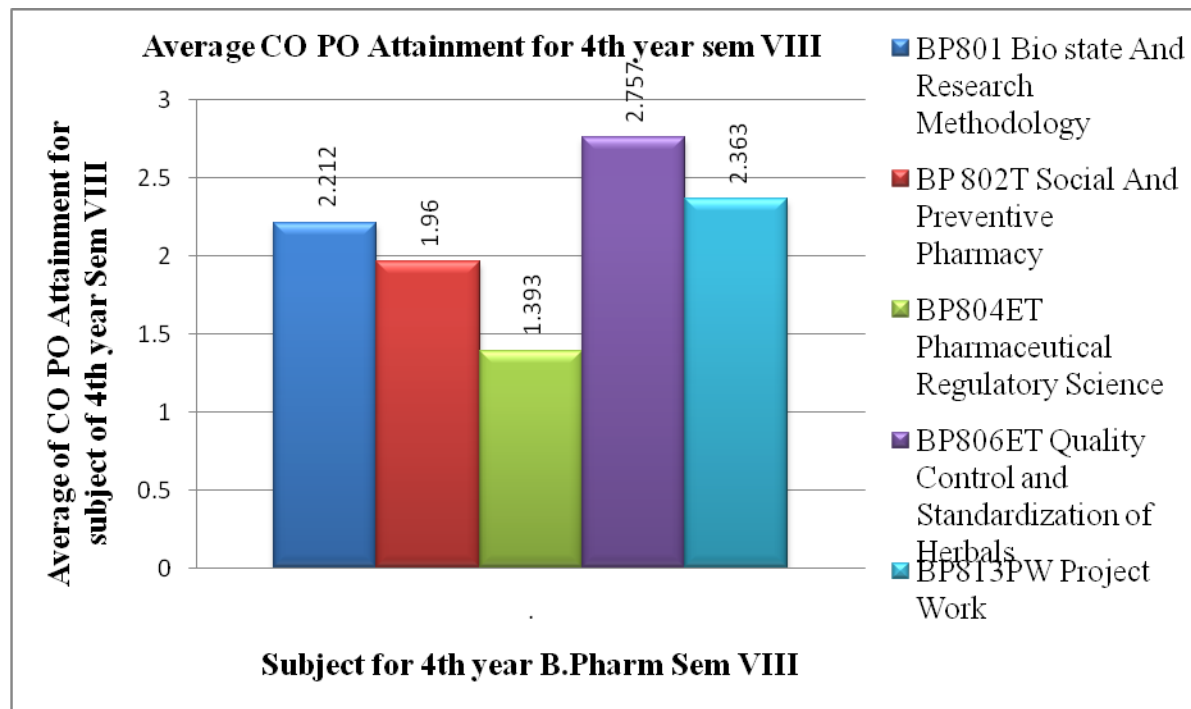
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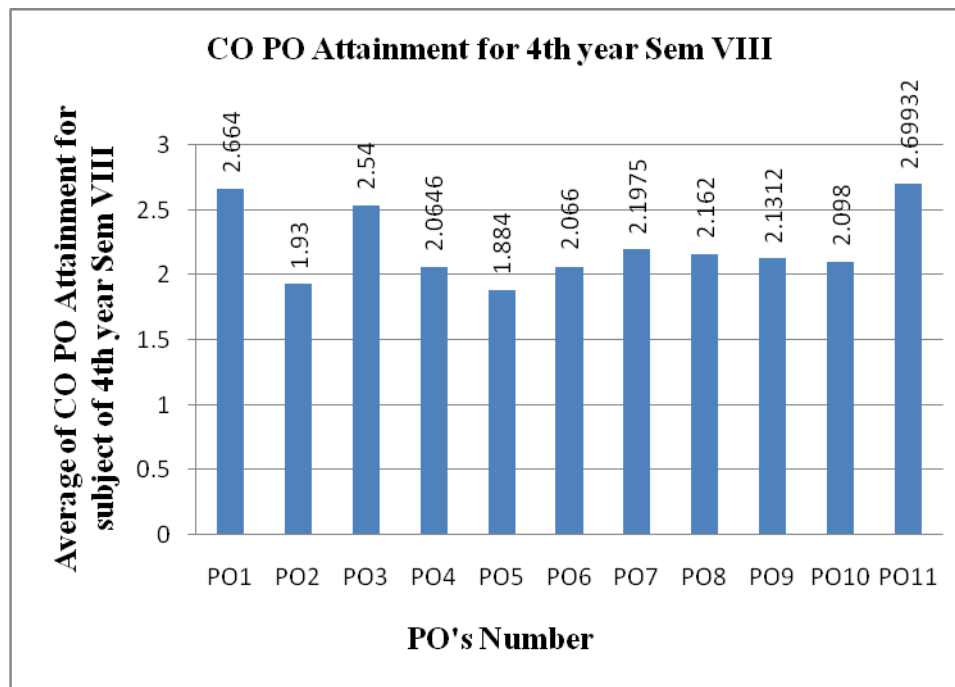
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AVERAGE ATTAINMENTS OF PROGRAMMED OUTCOMES (PO) AND COURSE OUTCOMES (CO) FOR B.PHARMACY ACCORDING TO EACH SUBJECT AND SEMESTER

FIRST YEAR M. PHARMACY SEMESTER I PHARMACEUTICS

Course Code/ Course Name	POs			
	PO1	PO2	PO3	Average
MPH101T Instrumental Analysis	2.8333	1.8333	1.66666	2.11108667
MPH102T Drug Delivery System	3	1.3333	2	2.1111
MPH103T Modern Pharmaceutics	2.4	2.2	2.2	2.26666667
MPH104 Regulatory Affairs	2.5	2.6666	2.66666	2.61108667
MPH 105T Pharmaceutics Practical	2.8	1.8	2.6	2.4
AVERAGE				2.299988
	2.70666	1.96664	2.226664	




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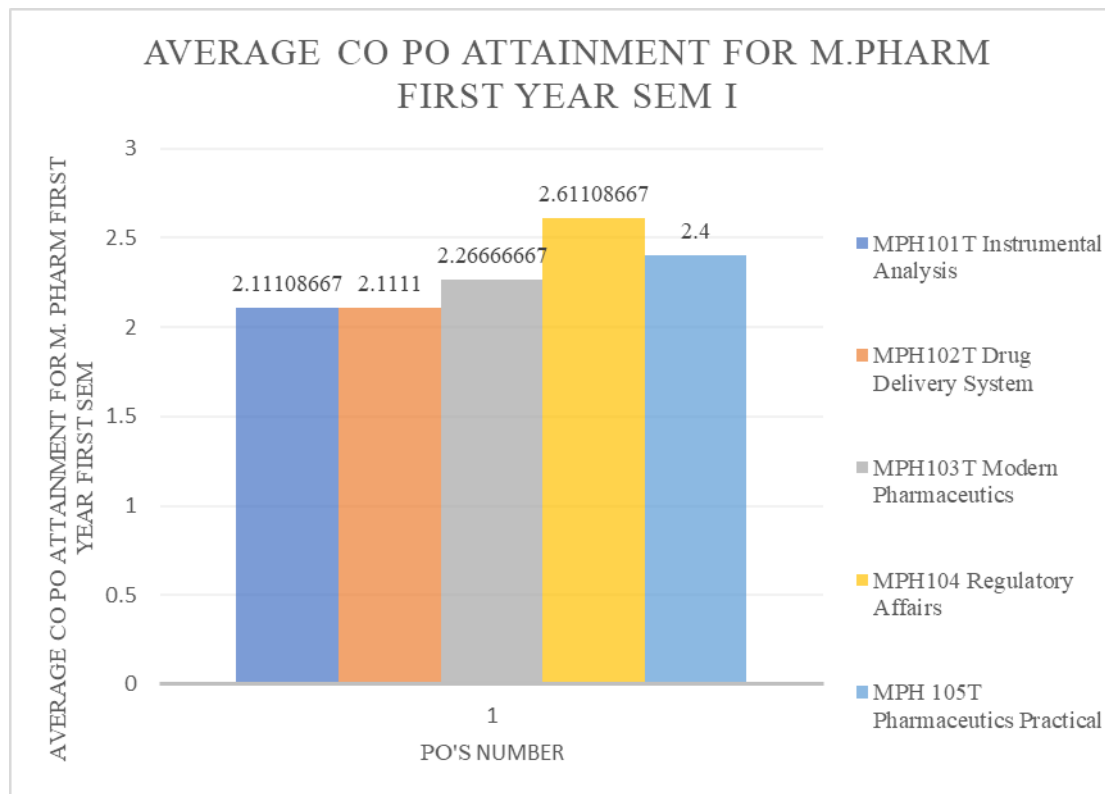
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PHARMACEUTICS**



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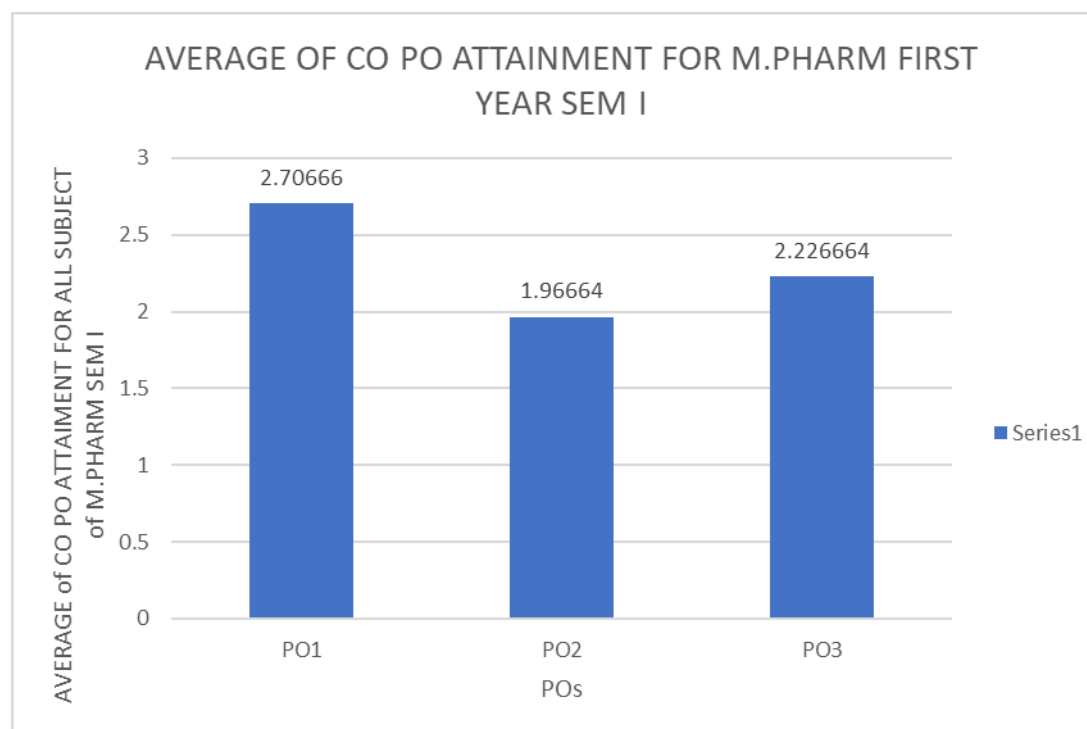
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FIRST YEAR M. PHARMACY SEMESTER II PHARMACEUTICS

Course Code/Course Name	POs			
	PO1	PO2	PO3	Average
MPH 201T Molecular Pharmaceutics	3	2	2.3333	2.44443333
MPH 202T Advanced Biopharmaceutics & Pharmacokinetics	2.4	1.6	1.6	1.86666667
MPH 203T Computer Aided Drug Development	1.875	1.125	2.25	1.75
MPH 204T Cosmetics And Cosmeceuticals	2.8	1.8	2.6	2.4
MPH 205P Pharmaceutics Practical II	2.5	1.75	2.75	2.33333333
AVERAGE				2.158887
	2.515	1.655	2.30666	




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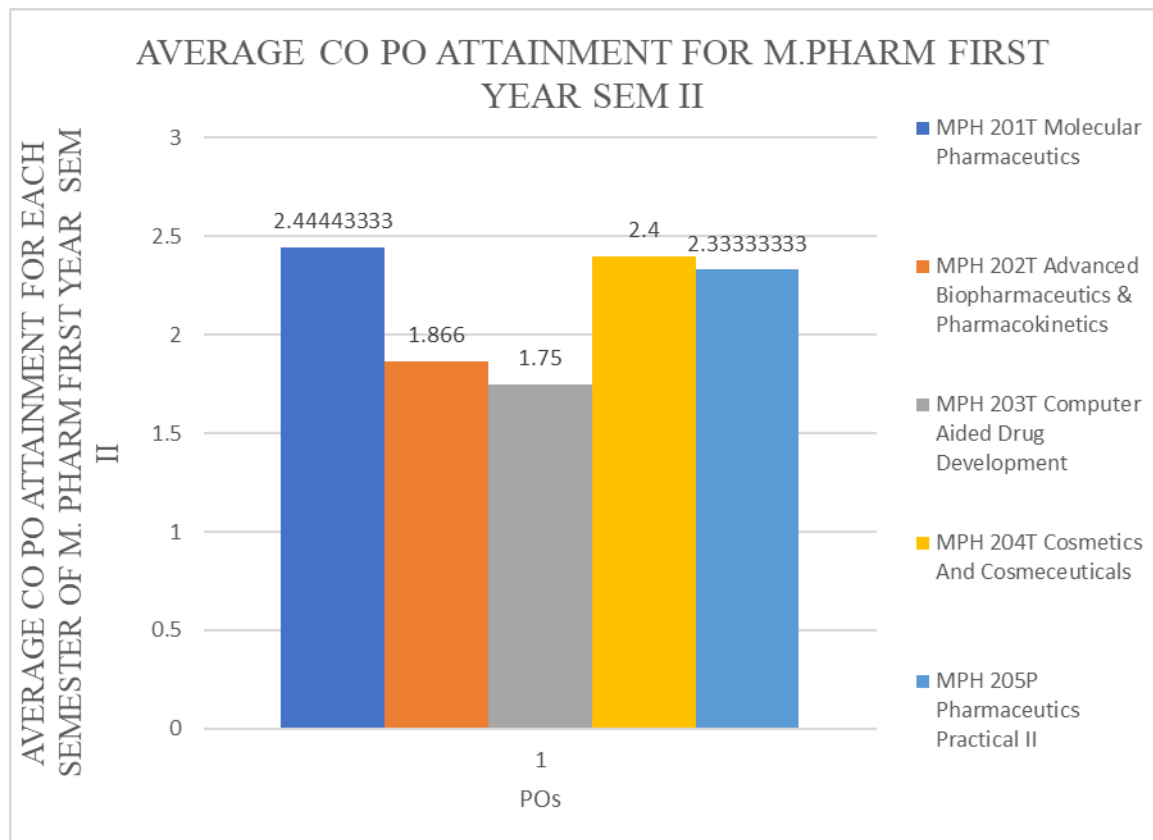
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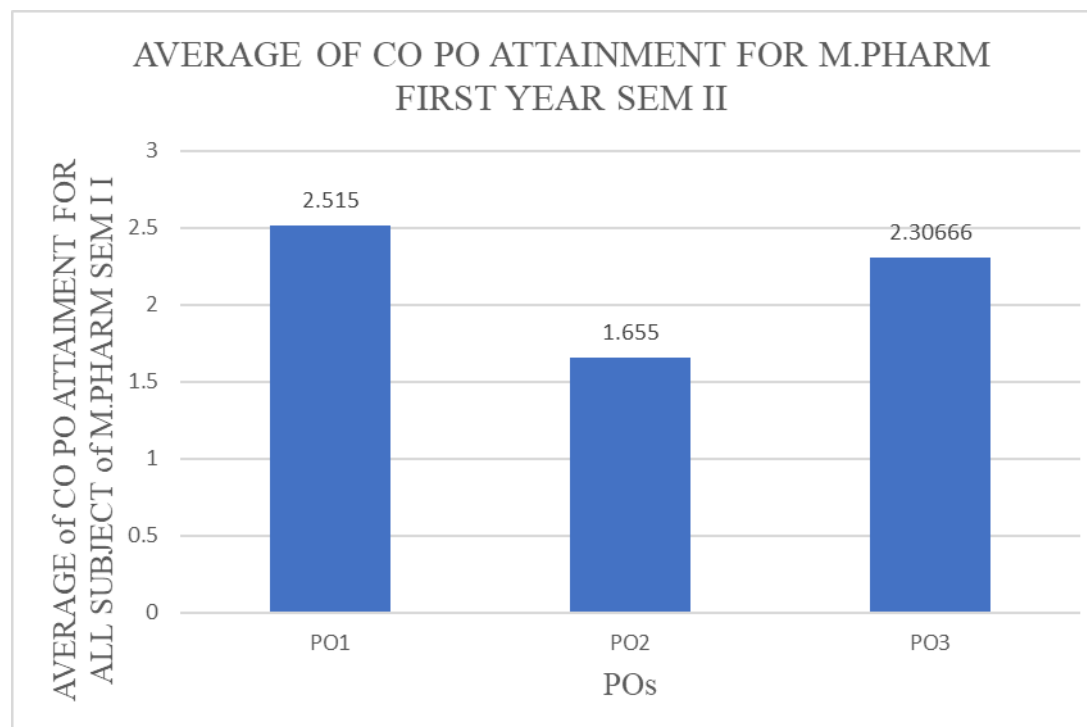
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Founder President

Adv. Sandeep S. Patil
President



Dr. G. P. Vadnere
Principal



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FIRST YEAR M.PHARMACY PHARMACOGNOSY SEMESTER I

Course Code/Course Name	POs			
	PO1	PO2	PO3	Average
MPG101T Instrumental Analysis	2.8333	1.8333	1.66666	2.11108667
MPG 102T Advanced Pharmacognosy - I	2.2	2.2	2.4	2.26666667
MPG 103T Phytochemistry	2.5	2.25	2.75	2.5
MPG 104T Industrial Pharmacognostical Technology	2.66667	2.3333	2.6666	2.55552233
MPG 105P Pharmacognosy	2.66667	2	2.6666	2.44442233
AVERAGE				2.299988
	2.70666	1.96664	2.70666	1.96664




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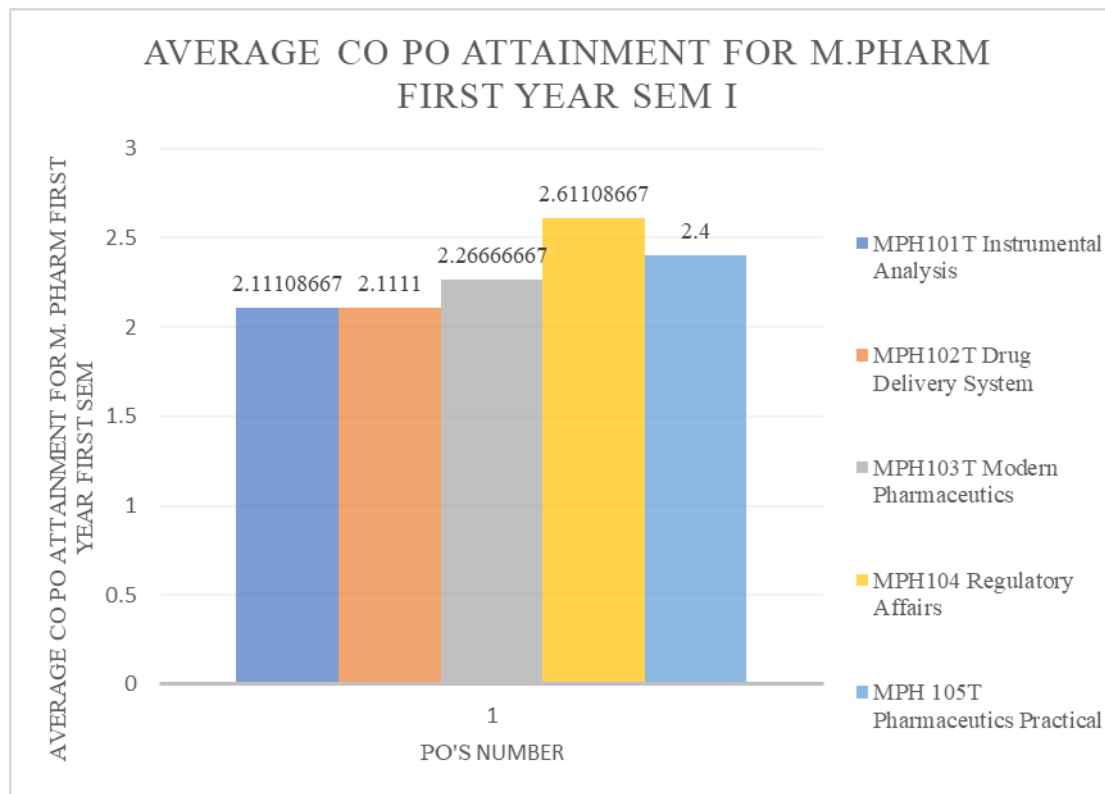
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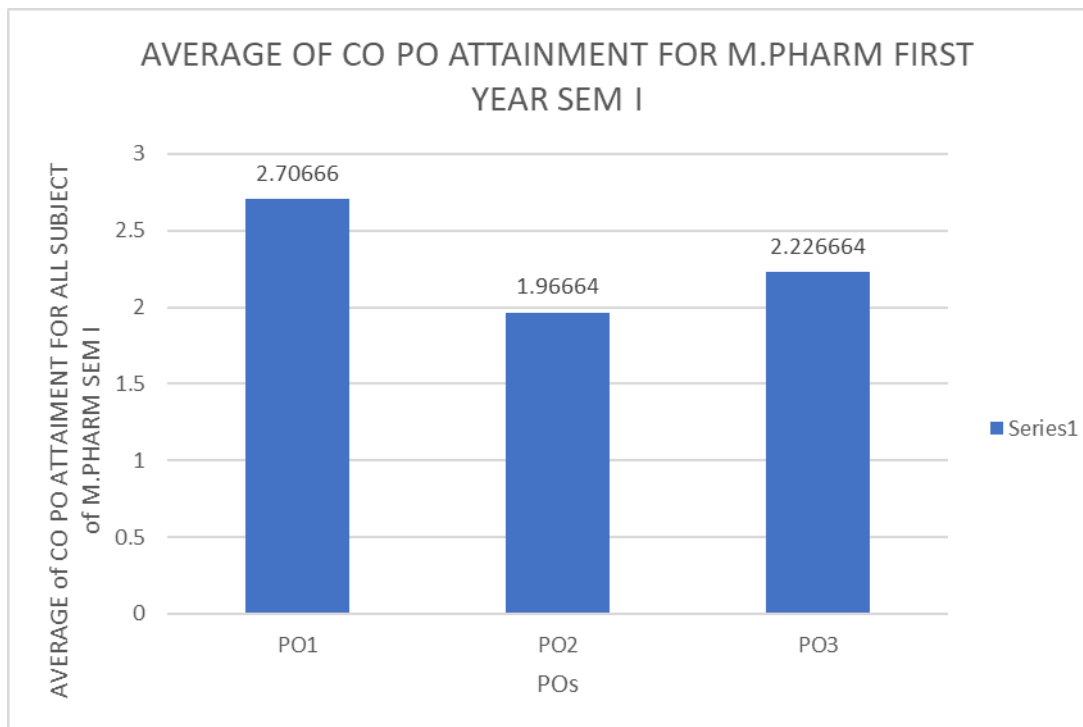
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FIRST YEAR M.PHARMACY PHARMACOGNOSY SEMESTER II

Course Code/ Course Name	POs			
	PO1	PO2	PO3	Average
MPG 201T Medicinal Plant Biotechnology	2.25	1.75	1.5	1.83333333
MPG 202T Advanced Pharmacognosy - II	1.8	1.6	2.4	1.93333333
MPG 203T Indian Systems of Medicine	1.8	1.8	1.8	1.8
MPG 204T Herbal Cosmetics	3	2	3	2.66666667
MPG 205P Herbal Cosmetics	2.75	1.75	2.75	2.41666667
AVERAGE				2.13
	2.32	1.78	2.29	



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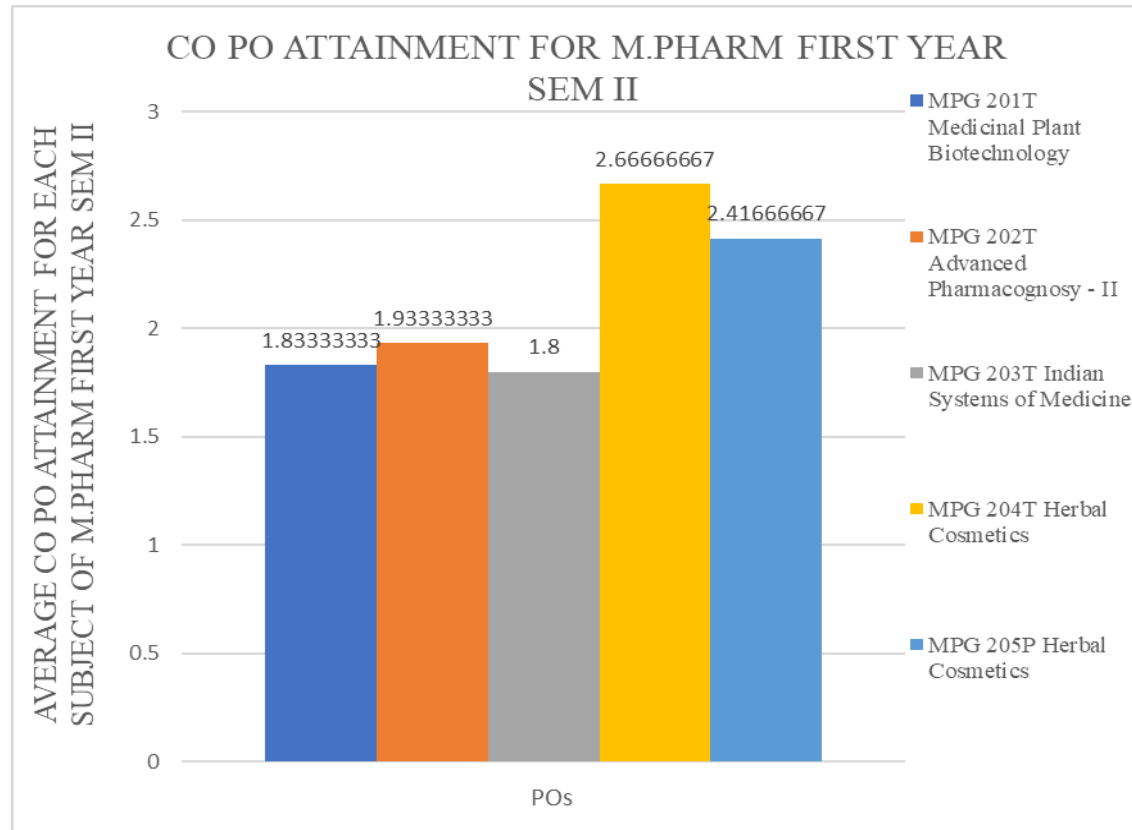
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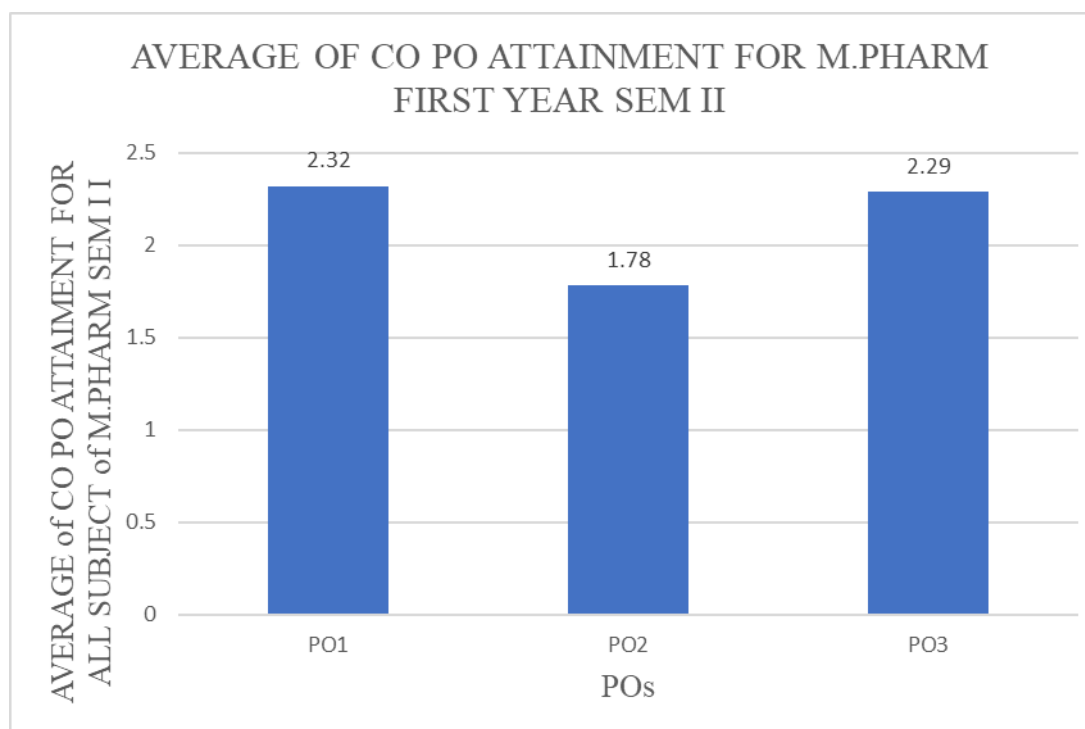
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FIRST YEAR M. PHARMACY PHARMACEUTICS & PHARMACOGNOSY SEMESTER III

Course Code/Course Name	POs			
	PO1	PO2	PO3	Average
MRM 301T Research Methodology & Biostatistics	2.8	2.8	2.8	2.8
AVERAGE				2.8
	2.8	2.8	2.8	



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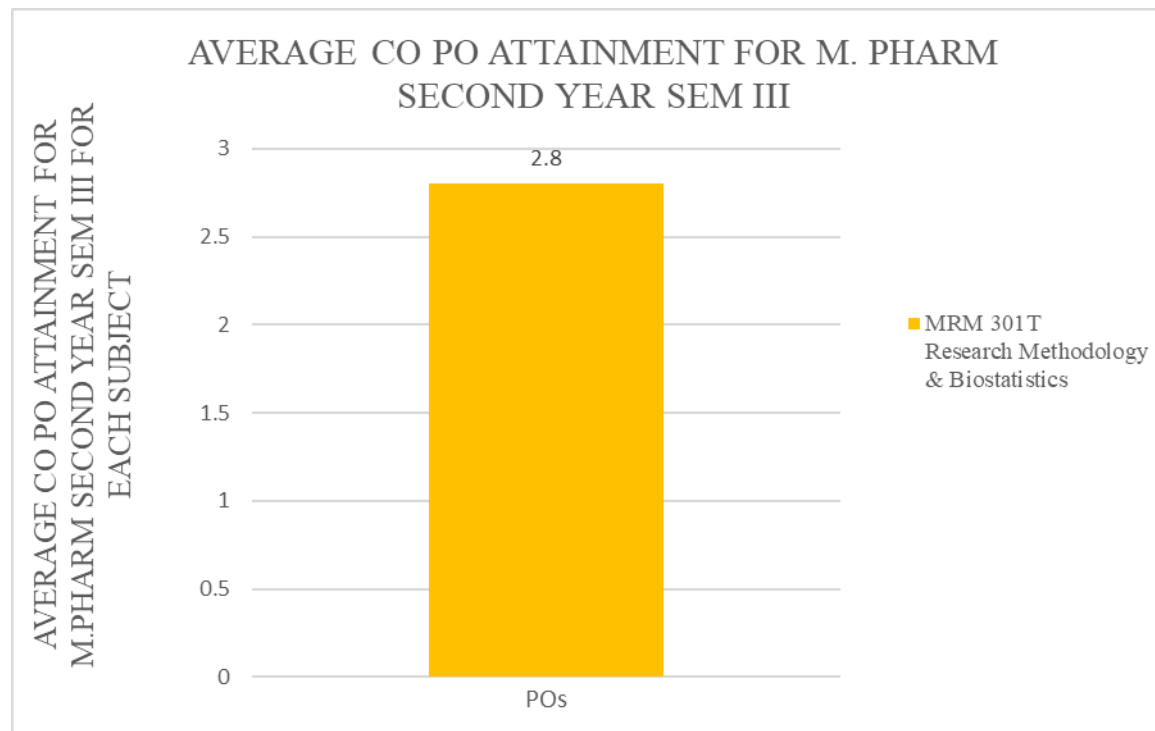
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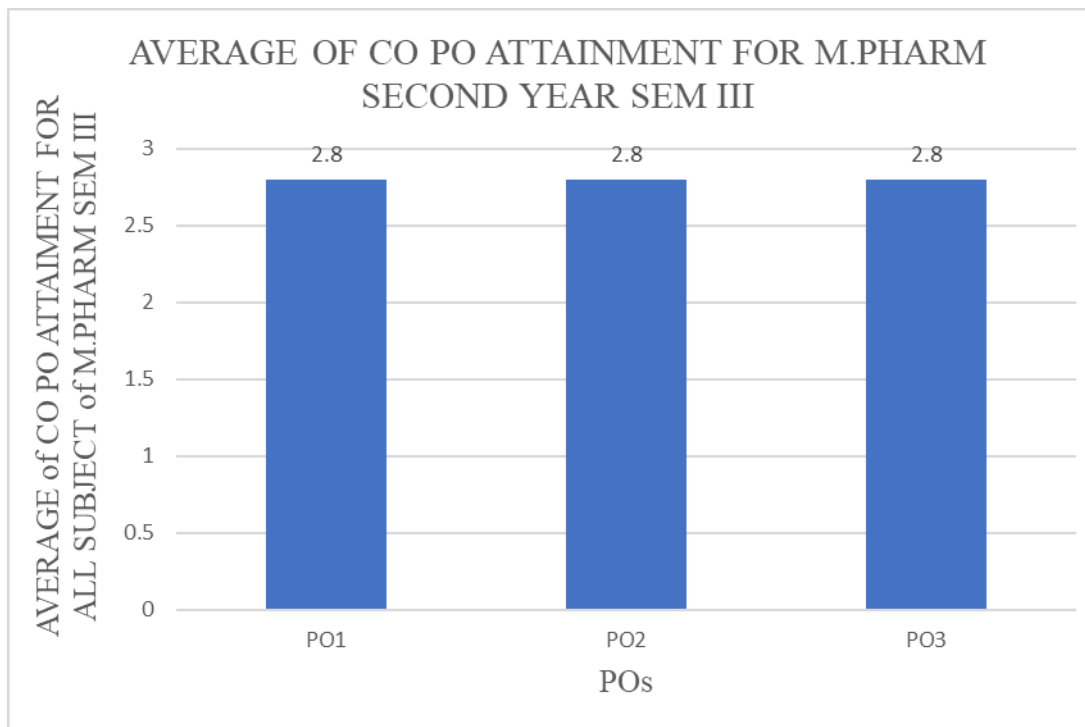
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