



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Cherukupally (Village), Chittivalasa (SO), Bhogapuram (Mandal), Vizianagaram (Dist.) -531162.

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2.6.2. CO-PO Attainment for Pharm D Program

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Steps involved in CO-PO Attainment Process

Step 1: Establish POs, PSOs and PEOs of the Program.

Step 2: Develop Course Outcomes for each course.

Step 3: Defining relation between COs and POs for each course to obtain overall CO mapping with each POs.

Step 4: Computation and construction of overall CO attainment matrix for each course using course assessment tools.

Step 5: Calculation and construction of direct PO attainment matrix using overall CO-PO mapping matrix and overall CO attainment matrix.

Step 6: Calculation of overall direct PO attainment.

Step 7: Calculation of indirect PO attainment.

Step 8: Computation of overall PO attainment.

Step 9: Comparison of target level and obtained PO attainment.



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Program Outcomes (POs), Program Educational Outcomes (PEOs), and Program Specific Outcomes (PSOs) for Pharm D / Pharm D (PB) (PG Course)

Program Educational Objectives (PEOs)

These are broad statements that describe the career and professional accomplishments in four to five years after graduation that the program is preparing the graduates to achieve.

PEO 1: Professionalism: Graduates will be able to inculcate leadership & entrepreneurship capabilities and practice ethics & values for providing services to society in promoting healthcare environment & social awareness. Graduates will be able to provide health care information for prevention or treatment of diseases and disorders and demonstrate technical skills in medicine compounding and dispensing of medicines.

PEO 2: Academic Excellence and Community wellness: Graduates should be capable of providing high quality pharmaceutical services and striving for excellence in pharmacy education in patent care research & community wellness.

PEO 3: Social Contribution: Graduates should contribute towards health care system by counseling for prophylaxis & prevention of diseases & creating awareness.

PEO 4: Self Identify Awareness: Graduates should update their knowledge & able to analyze pros and cons by organizing or conducting or attending workshops seminars and conferences at national & International Level.

Program Outcomes (POs)

Program outcomes are statements that describe what the knowledge, skills and attitudes students should have at the time of graduation from Pharm D program. That means just at the end of 6 years these represent what is the knowledge, skills and attitudes they should have.

PO 1: Comprehensive pharmacy and clinical knowledge: Demonstrate mastery and application of core knowledge and skills in relation to the evolving pharmaceutical, biomedical, clinical and epidemiological sciences. This includes competency in areas supporting high quality pharmacy practice.

PO 2: Patient Centered Care: Provide patient-centered care to diverse patients using the best available evidence and in consideration of patients' circumstances to devise, modify, implement, document and monitor pharmacotherapy care plans, either independently or as part of healthcare teams.



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PO 3: Problem solving and decision making: Demonstrate the ability to use observational, analytical and critical thinking skills to develop, implement and evaluate solutions that solve pharmacotherapy problems and build the ability to take decisions based on evidenced based practice.

PO 4: Social and cultural awareness: Recognize social determinants of health and respect patients' cultural, social and religious perspectives to produce safe and appropriate medication use throughout society. Reflect their knowledge, experiences, values, attitudes, biases and beliefs, to show evidence of being self-aware and life-long learners.

PO 5: Leadership Skills: Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfilment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.

PO 6: Innovation and entrepreneurship: Engage in innovative activities by using creative thinking to envision better ways of accomplishing professional goals. Utilize the principles of scientific enquiry and critical thinking while solving problems and making decisions in daily practice. Attain the key ability to start a community pharmacy or chain community pharmacies with patient care services.

PO 7: Pharmaceutical Ethics: Practice ethically, maintaining patient confidentiality, responding to errors in care and professional misconduct (including plagiarism), and understanding principles of ethical research (including conflicts of interest and obtaining appropriate informed consent). Apply ethical principles while making decisions and take responsibility for the outcomes associated with decisions.

PO 8: Interpersonal and Communication skills: Demonstrate effective interpersonal written and verbal skills, adapt to socioeconomic and cultural factors as well as situational applications. Effectively educate families, patients, caregivers and other health care professional (HCPs). Function effectively in a team and act in a consultative position for other members of the health care team, regulatory agencies and policy makers.

PO 9: Clinical Pharmacist and the Society: Apply contextual knowledge to assess the societal health care needs and demonstrate effective planning abilities in order to solve problems related to health care practice. Educate and aware the patients regarding the aspect of health and prevention of diseases and provide them a cost-effective drug therapy.



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PO 10: Environment and Sustainability: Understand the impact of professional pharmacy solution in societal and environmental context and demonstrate the knowledge and need of sustainable development.

PO11: Practice based learning and improvement: Evaluate practice and care, and promote continuous improvement in one's own patient care and pharmacy services. Demonstrate self-calibration skills and a commitment to the lifelong learning needed to provide high quality care. Locate, appraise and assimilate evidence from scientific studies to enhance the quality of care and services.


Program Specific Outcomes (PSOs)

PSOs are outcomes that are specific to a program. PSOs characterize the specificity of the core courses of a program.

PSO 1: Scientific Thinking: Able to implement technical skills in dispensing, compounding of drugs and medicines and expertise in designing dosage regimen, recognizing possible adverse reactions.

PSO 2: Professional practice: Able to inculcate practice of pharmacy for empowering the healthy living in the community by various means of awareness and health strategies.




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Course Outcomes (CO) and CO-PO/PSO mapping

Course Outcomes are the statements which describe the student should be able to do at the end of a course. The most important aspect of a CO is that it should be observable and measurable.

CO-PO/PSO Mapping:

It Creates link between the Course Outcomes (Co) and program outcomes (PO), Program specific outcomes (PSO) for each unit and assessment is called CO-PO/PSO Mapping. After CO statements are developed by the course coordinator, CO will map with any possible POs or PSO based on the relationship exist between them. But the POs are not necessarily mapped with any one CO and it may be left blank.

Levels of CO-PO/PSO mapping:

It indicates to what extent a certain component (either assessment method to CO or CO to PO or PO to PEO & PSO.

- 3 indicates Substantial (high) mapping (high contribution towards attainment)
- 2 indicates Moderate (medium) mapping (medium contribution towards attainment)
- 1 indicates Slight (low) mapping (some contribution towards attainment)
- indicates No mapping (No contribution towards attainment)

For Pharm D program, Year wise programs are designed according to PCI and University curriculum. For each year, Pharm D HOD consolidates the COs of the respective year and maintains the documentation of the CO-PO/PSO mapping.

CO-PO/PSO mapping for Pharm D subjects of PCI (R08) regulation

Year	Number of Theory subjects	Number of Practical Subjects	Other Subjects
I	6	6	-
III	6	3	-
III	6	5	-
IV	6	4	-
V	3	1	Project Work
VI	Internship		
Total	27	19	01

CO statements and CO-PO/PSO mapping for each Pharm D course is listed below:



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Human Anatomy and Physiology (Theory)
Course Code: T101	
Course Outcomes	
CO101.1	Recall the terminologies in the human anatomy and physiology, along with learn the functions of human cell and tissues. Summarize the functions of bones and joints in the skeleton.
CO101.2	Understand the functions of formed elements in the blood along with lymph and its role in immunity
CO101.3	Compare the anatomical functions of heart, lungs, Digestive system and to analyze their physiology.
CO101.4	Assess the structure and function of brain, spinal cord and cranial nerves and to interpret the physiology of urinary system.
CO101.5	Elaborate the physiology of endocrine glands, reproductive organs.
CO101.6	Understand the anatomy and physiology of sensory organs and skeletal muscles. Discuss the physiology of skeletal muscles.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO101.1	3	-	2	-	-	-	-	-	1	-	-	2	2
CO101.2	3	-	2	-	-	-	-	-	-	-	-	2	2
CO101.3	3	-	2	-	-	-	-	-	3	-	-	2	2
CO101.4	3	-	2	-	-	-	-	-	3	-	-	2	2
CO101.5	3	-	3	-	-	-	-	-	3	-	-	2	2
CO101.6	3	-	3	-	-	-	-	-	3	-	-	2	2
	3	-	2.20	-	-	-	-	-	2.50	-	-	2	2



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Pharmaceutics (Theory) Course Code: T102
Course Outcomes	
CO102.1	Outline the classification of dosage forms, handling of prescription and summarize the importance of posology.
CO102.2	Solve the pharmaceutical calculations involved in design of dosage form.
CO102.3	Understand the formulation of powders, granules & monophasic dosage forms
CO102.4	Gain knowledge on formulation of bi phasic liquid dosage forms.
CO102.5	Acquire knowledge on formulation of Suppositories & Galenical's.
CO102.6	Identify the types incompatibilities in dosage forms & avoid the incompatibilities during dispensing.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO102.1	2	-	2	-	-	2	3	-	1	-	-	2	-
CO102.2	3	-	3	-	-	1	-	-	-	-	-	2	-
CO102.3	3	-	2	3	-	1	-	-	3	-	-	2	-
CO102.4	3	-	2	3	-	1	-	-	3	-	-	2	-
CO102.5	3	-	2	3	-	1	-	-	3	-	-	2	-
CO102.6	3	-	2	3	-	1	-	-	3	-	-	2	-
	3	-	2.20	3	-	1.20	3	-	2.50	-	-	2	-



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Medicinal Biochemistry (Theory) Course Code: T103
Course Outcomes	
CO103.1	Remember the classification, properties, significance and metabolic reactions of carbohydrates, lipids, nucleic acids, proteins and amino acids.
CO103.2	Understand catalytic activity of enzymes and importance of co enzymes in diagnosis of diseases. Know the metabolism of carbohydrates.
CO103.3	Understand the process of metabolism of proteins and lipids.
CO103.4	Acquire knowledge on nucleic acid metabolism and disorders associated with it.
CO103.5	Understand genetic organization of mammalian genome. Interpret qualitative analysis of biomolecules in body fluids.
CO103.6	Elaborate knowledge on immunochemical techniques & electrolytes.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO103.1	2	-	2	-	-	2	3	-	1	-	-	2	-
CO103.2	3	-	3	-	-	1	-	-	-	-	-	2	-
CO103.3	3	-	2	3	-	1	-	-	3	-	-	2	-
CO103.4	3	-	2	3	-	1	-	-	3	-	-	2	-
CO103.5	3	-	2	3	-	1	-	-	3	-	-	2	-
CO103.6	3	-	2	3	-	1	-	-	3	-	-	2	-
	3	-	2.20	3	-	1.20	3	-	2.50	-	-	2	-



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Pharmaceutical Organic Chemistry (Theory) Course Code: T104
Course Outcomes	
CO104.1	Capable to give nomenclature and identify isomerism of organic compounds.
CO104.2	Understand the mechanism, reactivity of free radicals chain reactions, nucleophilic aliphatic substitution reaction.
CO104.3	Study the kinetics, mechanism, stereochemistry of free radicals, electrophiles, dehydrogenation of alkyl halides reactions.
CO104.4	Understand theory of resonance. Analyze the importance of Cathartics and anti-microbials in treatment of gastric diseases or disorders.
CO104.5	Understand mechanisms of aldol condensation, Hoffmann rearrangement oxidation, reduction reactions.
CO104.6	Identify the tests for purity, medical uses of some pharmaceutical products.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO104.1	2	-	2	-	-	2	-	-	1	-	-	2	-
CO104.2	2	-	3	-	-	1	-	-	-	-	2	2	-
CO104.3	2	-	2	3	-	1	-	-	-	-	2	2	-
CO104.4	2	-	2	3	-	1	-	-	-	-	2	2	-
CO104.5	2	-	2	3	-	1	-	-	-	-	2	2	-
CO104.6	2	-	2	3	-	1	-	-	-	-	2	2	-
	2	-	2.16	3	-	1.16	-	-	1	-	2	2	-



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Pharmaceutical Inorganic Chemistry (Theory) Course Code: T105
Course Outcomes	
CO105.1	Analyze the techniques of acid-base titrations and non-aqueous titrations. Understand the physiochemical concepts of analysis and gain knowledge of sources of errors and minimizing techniques.
CO105.2	Employ volumetric titrations in quality control of pharmaceuticals. Analyze the techniques of gravimetry in quality control of pharmaceuticals.
CO105.3	Identify impurities of compounds by limit tests.
CO105.4	Appreciate the importance of inorganic compounds in preventing Diseases.
CO105.5	Classify the gastrointestinal agents and described the methods of preparation, properties, storage, assay and uses with marketed formulations of inorganic compounds in gastrointestinal agents. Analyze the importance of Cathartics and anti-microbials in treatment of gastric diseases or disorders.
CO105.6	Classify the miscellaneous compounds and know the monographs of inorganic compounds in each category. Understand the radioactivity and study of different radioisotopes, storage, precautions and applications of radioactive substances.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO105.1	2	-	2	-	-	2	-	-	1	-	-	-	1
CO105.2	2	-	3	-	-	1	-	-	-	-	2	-	1
CO105.3	2	-	2	3	-	1	-	-	-	-	2	1	1
CO105.4	2	-	2	3	-	1	-	-	-	-	2	-	1
CO105.5	2	-	2	3	-	1	-	-	-	-	2	-	1
CO105.6	2	-	2	3	-	1	-	-	-	-	2	-	1
	2	-	2.20	3	-	1.20	-	-	1	-	2	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Remedial Mathematics (Theory) Course Code: T106a
Course Outcomes	
CO106a.1	Know Basic mathematical operations
CO106a.2	Apply trigonometrical principles, calculations in pharmaceutical calculations.
CO106a.3	To utilize mathematical equations in doing problems
CO106a.4	To take part in solving problems by applying the concepts
CO106a.5	To appraise the important applications of mathematics, to solve and convert elementary functions using Laplace transform

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO106a.1	-	-	3	-	-	-	-	-	1	-	2	-	-
CO106a.2	-	-	3	-	-	-	-	-	-	-	2	2	-
CO106a.3	2	-	3	-	-	-	-	-	-	-	2	2	-
CO106a.4	2	-	3	-	-	-	-	-	-	-	2	2	-
CO106a.5	2	-	3	-	-	-	-	-	-	-	2	2	-
	2	-	3	-	-	-	-	-	1	-	2	2	-



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Remedial Biology (Theory)
Course Code: T106b (Theory)	
Course Outcomes	
CO106b.1	To learn the organization and nomenclature of living things
CO106b.2	To summarize the functions of various types of tissues in plants and animals
CO106b.3	To develop knowledge on structural modifications in plants and importance of pollination in plants
CO106b.4	To analyze various physiological processes in plants and animals
CO106b.5	To determine the various taxonomical characters of different families and micro-organisms, to elaborate the study of different kinds of phylum's includes Pisces, Reptiles, Amphibians, Aves& Mammals.
CO106b.6	To summarize the study of fungi, yeast, penicillin and bacteria and animal cell, animal tissues.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO162.1	-	-	-	-	-	-	-	-	1	-	2	-	-
CO162.2	-	-	2	-	-	-	-	-	-	-	2	2	-
CO162.3	2	-	2	-	-	-	-	-	-	-	2	2	-
CO162.4	2	-	2	-	-	-	-	-	-	-	2	2	-
CO162.5	2	-	2	-	-	-	-	-	-	-	2	2	-
CO162.6	2	-	2	-	-	-	-	-	-	-	2	2	-
	2	-	2	-	-	-	-	-	1	-	2	2	-



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Human Anatomy and Physiology Course Code:T107 (Practical)
Course Outcomes	
CO107.1	To find and relate characteristics of various tissues of human body, To demonstrate bleeding time, clotting time, blood pressure and blood grouping.
CO107.2	To identify the number of RBC and WBC using hemocytometer
CO107.3	To examine the functions of various organ systems in human body
CO107.4	To interpret the mechanisms of pregnancy diagnosis tests and various family planning appliances, to construct and record simple curves using frog gastrocnemius sciatic nerve

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO107.1	-	-	3	-	-	-	-	-	3	3	2	-	1
CO107.2	-	-	3	-	-	-	-	-	3	3	2	-	-
CO107.3	2	-	3	-	-	-	-	-	2	3	2	-	-
CO107.4	2	-	3	-	-	-	-	-	3	3	2	2	-
	2	-	3	-	-	-	-	-	3	3	2	2	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I Course Name: Pharmaceutics Course Code: T108 (Practical)	
Course Outcomes	
CO108.1	Able to formulate skills of preparing syrups, elixirs, Linctus and solutions.
CO108.2	Gain knowledge on preparation of biphasic liquid dosage forms.
CO108.3	Able to prepare various solid dosage forms using different techniques and equipment's.
CO108.4	Understand the preparation of Semisolid dosage forms.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO108.1	-	-	3	-	-	-	-	-	3	3	2	-	1
CO108.2	-	-	3	-	-	-	-	-	3	3	2	-	-
CO108.3	2	-	3	-	-	-	-	-	2	3	2	-	-
CO108.4	2	-	3	-	-	-	-	-	3	3	2	2	-
	2	-	3	-	-	-	-	-	3	3	2	2	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Medicinal Biochemistry Course Code: T109 (Practical)
Course Outcomes	
CO109.1	Identify qualitative, quantitative estimation of normal, abnormal constituents of urine.
CO109.2	Interpret SGOT, SGPT, Glucose, urea, proteins, bilirubin in serum samples.
CO109.3	Study factors affecting enzyme activity, and identify electrolytes in serum.
CO109.4	To perform the liver function tests and lipid profile tests.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO109.1	3	-	1	2	-	-	-	-	-	-	-	-	2
CO109.2	3	-	1	2	-	-	-	-	-	-	-	-	2
CO109.3	3	-	1	2	-	-	-	-	-	-	-	-	2
CO109.4	3	-	1	2	-	-	-	-	-	-	-	-	2
	3	-	1	2	-	-	-	-	-	-	-	-	2




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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Pharmaceutical Organic Chemistry Course Code: T110 (Practical)
Course Outcomes	
CO110.1	Prepare and characterize the derivatives of organic compounds.
CO110.2	Analyze unknown pharmaceutical organic compounds by determining their melting point/boiling point.
CO110.3	Perform qualitative analysis of pharmaceutical organic compounds and identify the extra elements present in the pharmaceutical organic compounds and find the presence of several functional groups in pharmaceutical compounds.
CO110.4	Able to construct molecular models.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO110.1	3	-	1	2	-	-	-	-	-	-	-	-	2
CO110.2	3	-	1	2	-	-	-	-	-	-	-	-	2
CO110.3	3	-	1	2	-	-	-	-	-	-	-	-	2
CO110.4	3	-	1	2	-	-	-	-	-	-	-	-	2
	3	-	1	2	-	-	-	-	-	-	-	-	2



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Pharmaceutical Inorganic Chemistry Course Code: T111 (Practical)
Course Outcomes	
CO111.1	Know the source of impurities and perform the limit tests for qualitative analysis of impurities for given sample.
CO111.2	Perform the identification test for the pharmaceutical compounds.
CO111.3	Identify the test for purity of compounds.
CO111.4	Able to prepare inorganic pharmaceuticals.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO111.1	2	-	2	-	-	2	-	-	1	-	-	-	1
CO111.2	2	-	3	-	-	1	-	-	-	-	2	-	1
CO111.3	2	-	2	3	-	1	-	-	-	-	2	1	1
CO111.4	2	-	2	3	-	1	-	-	-	-	2	-	1
	2	-	2.25	3	-	1.25	-	-	1	-	2	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Remedial Biology Course Code: T112 (Practical)
Course Outcomes	
CO112.1	Understand the usage and handling of microscope and study the microscopic investigation of cell and its inclusions.
CO112.2	Identify microscopic and morphological characteristics of stem, root, fruit and flowers.
CO112.3	Identify bones and study frog by using computing models.
CO112.4	Determine physical parameters such as BP, blood groups.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO112.1	-	-	-	-	-	-	-	-	1	-	2	-	-
CO112.2	-	-	2	-	-	-	-	-	-	-	2	2	-
CO112.3	2	-	2	-	-	-	-	-	-	-	2	2	-
CO112.4	2	-	2	-	-	-	-	-	-	-	2	2	-
	2	-	2	-	-	-	-	-	1	-	2	2	-



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: II	Course Name: Pathophysiology
Course code: T201 (Theory)	
Course Outcomes	
CO201.1	Understand the process of cell injury, morphology of cell injury and cellular adaptations.
CO201.2	Gain knowledge on aetiology, pathogenesis of immunological diseases, cancer.
CO201.3	Understand stages and mechanisms of shock treatment
CO201.4	To assess the need of balanced diet and the effect of radiation and air pollution on human body.
CO201.5	Explain the etiopathogenesis of hematologic, endocrine, nervous, gastrointestinal, musculoskeletal diseases and Immunopathogenesis of infectious diseases.
CO201.6	Describe the aetiology and pathogenesis of infectious diseases.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO201.1	3	-	2	-	-	-	-	-	1	-	2	2	-
CO201.2	3	-	2	-	-	-	-	-	-	-	2	2	-
CO201.3	3	-	2	-	-	-	-	-	3	-	2	2	-
CO201.4	3	-	2	-	-	-	-	-	3	-	2	2	-
CO201.5	3	-	3	-	-	-	-	-	3	-	2	2	-
CO201.6	3	-	3	-	-	-	-	-	3	-	2	2	-
	3	-	2.20	-	-	-	-	-	2.50	-	2	2	-




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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: II	Pharmaceutical Microbiology
Course code : T202 (Theory)	
Course Outcomes	
CO202.1	Remember the scope of microbiology and its branches, methods of classification. Understand the structure, morphology of bacteria, fungi, viruses.
CO202.2	Know process of cultivation isolation of micro-organisms and study staining techniques.
CO202.3	Understand the importance and implementation of sterilization in pharmaceutical processing and industry, disinfectants in pharmaceutical industry
CO202.4	Under the importance of immunity, immunization programme.
CO202.5	Summarize the diagnostic tests used for identification of infectious diseases and interpret its results.
CO202.6	Gain knowledge on mode of transmission, aetiology, symptoms, and treatment of infectious diseases.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO202.1	3	-	2	2	-	-	-	-	-	-	1	1	1
CO202.2	3	-	2	2	-	-	-	-	-	-	1	1	1
CO202.3	3	-	2	2	-	-	-	-	-	-	1	1	1
CO202.4	3	-	2	2	-	-	-	-	-	-	1	1	1
CO202.5	3	-	2	2	-	-	-	-	-	-	1	1	1
CO202.6	3	-	2	2	-	-	-	-	-	-	1	1	1
	3	-	2	2	-	-	-	-	-	-	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: II	Pharmacognosy and Phytopharmaceuticals
Course code: T203 (Theory)	
Course Outcomes	
CO203.1	Recall the history, scope and development of pharmacognosy and remember different sources, classification and quality control of crude drugs.
CO203.2	Illustrate about cultivation, collection, processing and storage of crude drugs. Understand the factors affecting the production of crude drugs along with its hybridization.
CO203.3	Illustrate the basic plant metabolites and the various metabolic pathways to form secondary metabolites, Understand systematic pharmacogenetic study of primary metabolites, ayurvedic drugs, marine drugs and teratogens
CO203.4	To identify the crude drugs by chemical tests: Tragacanth, Acacia, Gelatin, Starch, Honey and lipids.
CO203.5	Study pharmacognosy of proteins, lipids, fibres.
CO203.6	Identify type and methods of adulteration of crude drugs

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO203.1	3	-	2	2	-	-	-	-	1	1	1	1	1
CO203.2	3	-	2	2	-	-	-	-	1	1	1	2	1
CO203.3	3	-	2	2	-	-	-	-	1	1	1	2	1
CO203.4	3	-	2	2	-	-	-	-	1	1	1	2	1
CO203.5	3	-	2	2	-	-	-	-	1	1	1	2	1
CO203.6	3	-	2	2	-	-	-	-	1	1	1	2	1
	3	-	2	2	-	-	-	-	1	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: II	Course Name: Pharmacology – I
Course code : T204 (Theory)	
Course Outcomes	
CO204.1	Define the fundamental concepts of pharmacology and pharmacokinetics of drugs. Understand the basic concepts of pharmacodynamics of drugs, adverse drug reactions and drug discovery
CO204.2	Describe organization, function, and neurohumoral transmission of peripheral nervous system. Employ the knowledge to study the pharmacological actions of drugs acting on peripheral nervous system
CO204.3	Describe organization, function, of cardiovascular system and employ the knowledge to study the pharmacological actions of drugs acting on cardiovascular system.
CO204.4	Describe neurohumoral transmission of the central nervous system with reference to Excitatory and Inhibitory neurotransmitters and apply the basics in studying the pharmacological actions of drugs acting on the central nervous system.
CO204.5	Describe organization, function, of urinary system and employ the knowledge to study the pharmacological actions of drugs acting on respiratory system.
CO204.6	Gain the knowledge on pharmacology of autocooids and related drugs.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO204.1	3	-	2	2	-	-	-	-	-	1	1	-	1
CO204.2	3	-	2	2	-	-	-	-	-	1	1	2	1
CO204.3	3	-	2	2	-	-	-	-	-	1	1	2	1
CO204.4	3	-	2	2	-	-	-	-	-	1	1	2	1
CO204.5	3	-	2	2	-	-	-	-	-	1	1	2	1
CO204.6	3	-	2	2	-	-	-	-	-	1	1	-	1
	3	-	2	2	-	-	-	-	-	1	1	2	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: II	Course Name: Community Pharmacy
Course: T205 (Theory)	
Course Outcomes	
CO205.1	Understand the roles and responsibilities of community pharmacist. Know process of clinical pharmacy management.
CO205.2	To recollect the parts of prescription and study the concepts of pharmaceutical care.
CO205.3	To identify the best way of improving medication adherence and to excel in conducting patient counselling.
CO205.4	To survey the health status of patients in the community by participating on health screening services and to build the ability to manage minor ailments.
CO205.5	To explain the importance of rational drug therapy, OTC medication counselling and code of ethics to become a competent pharmacist.
CO205.6	To improve the professional skills about health, balance diet, family planning, health promotion and prevention of communicable diseases in community.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO205.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO205.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO205.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO205.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO205.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO205.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: II	Course Name: Pharmacotherapeutics-I
Course code: T206 (Theory)	
Course Outcomes	
CO206.1	To recall the pathophysiology of cardiovascular disorders and relate their etiology with the therapeutic approach including treatment controversies.
CO206.2	To recall the pathophysiology of respiratory system disorders and relate their etiology with the therapeutic approach including treatment controversies.
CO206.3	To identify various types of respiratory and endocrine disorders with respect to clinical features and laboratory investigations, list their complications along with replacement in their management.
CO206.4	Outline general prescribing guidelines for geriatric, pediatric, pregnant, and feeding people
CO206.5	Understand etiopathogenesis and pharmacotherapy of ophthalmic diseases
CO206.6	Analyze role of pharmacist in rational drug use.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO206.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO206.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO206.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO206.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO206.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO206.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: II	Pharmaceutical Microbiology Course code: T207 (Practical)
Course Outcomes	
CO207.1	Demonstrate various staining methods – simple, gram staining and acid-fast staining.
CO207.2	Test for possible microbial contaminants. Estimate the microbiological assay of antibiotics.
CO207.3	Estimate the motility in the given sample. To Choose the correct method to evaluate the microbes to be tested.
CO207.4	Demo on diagnostic tests for some common tests.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO207.1	2	-	2	-	-	1	-	-	-	-	-	-	1
CO207.2	2	-	2	-	-	1	-	-	-	-	2	-	1
CO207.3	2	-	2	-	-	1	-	-	-	-	2	-	1
CO207.4	2	-	2	-	-	1	-	-	-	-	2	-	1
	2	-	2	-	-	1	-	-	-	-	2	-	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: II	Pharmacognosy and Phyto pharmaceuticals
Course code	: T208 (Practical)
Course Outcomes	
CO208.1	Remember different morphological and microscopical characteristic features of crude drugs.
CO208.2	Analyze crude drugs as per regulatory guidelines.
CO208.3	Evaluate the crude drugs by quantitative evaluation methods.
CO208.4	Understand the cellular structure of crude drugs.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO208.1	2	-	3	3	-	-	-	-	-	-	-	1	1
CO208.2	2	-	3	3	-	-	-	-	-	-	-	1	1
CO208.3	2	-	3	3	-	-	-	-	-	-	-	1	1
CO208.4	2	-	3	3	-	-	-	-	-	-	-	1	1
	2	-	3	3	-	-	-	-	-	-	-	1	1




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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: II	Course Name: Pharmacotherapeutics-I Course code: T209 (Practical)
Course Outcomes	
CO209.1	To recall the pathophysiology of cardiovascular disorders and relate their etiology with the therapeutic approach including treatment controversies. Pathophysiology of respiratory system disorders and relate their etiology with the therapeutic approach including treatment controversies.
CO209.2	To identify various types of respiratory and endocrine disorders with respect to clinical features and laboratory investigations, list their complications along with replacement in their management.
CO209.3	Outline general prescribing guidelines for geriatric, pediatric, pregnant, and feeding people
CO209.4	Understand etiopathogenesis and pharmacotherapy of ophthalmic diseases

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO209.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO209.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO209.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO209.4	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)

Year: III Course Name: Pharmacology-II Course code: T301 (Theory)

Course Outcomes

CO301.1	Describe organization, function, of urinary system and employ the knowledge to study the pharmacological actions of drugs acting on urinary system.
CO301.2	Describe organization, function, of urinary system and employ the knowledge to study the pharmacological actions of drugs acting on urinary system, blood forming agents.
CO301.3	Summarize the chemotherapy of antibiotics.
CO301.4	Understand the pharmacology of ant infectious agents.
CO301.5	Outline pharmacology of immunosuppressants and stimulants. Discuss principles of animal toxicology.
CO301.6	Understand structure functions of cell and gene.

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO301.1	3	-	2	2	-	-	-	-	-	1	-	1	-
CO301.2	3	-	2	2	-	-	-	-	-	1	-	1	2
CO301.3	3	-	2	2	-	-	-	-	-	1	-	1	2
CO301.4	3	-	2	2	-	-	-	-	-	1	-	1	2
CO301.5	3	-	2	2	-	-	-	-	-	1	-	1	2
CO301.6	3	-	2	2	-	-	-	-	-	1	-	1	-
	3	-	2	2	-	-	-	-	-	1	-	1	2



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: III	Course Name: Pharmaceutical Analysis Course code: T302 (Theory)
Course Outcomes	
CO302.1	Outline the importance of quality assurance in pharmaceutical drug development
CO302.2	Elaborate various principles, theory and instruments employed for the characterization and analysis of drugs by using chromatographic techniques.
CO302.3	Understand principle, operation and applications of electrochemical methods.
CO302.4	Understand principle, operation and applications of UV visible spectrophotometer and fluorimetry.
CO302.5	Gain maximum knowledge on characterization and estimation of molecules, ions by spectroscopical techniques.
CO302.6	Acquire knowledge on operation and applications of X-RD, DSC, DTA

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO302.1	3	-	3	-	-	-	-	-	1	-	-	-	2
CO302.2	3	-	2	3	-	1	-	-	-	-	-	-	2
CO302.3	3	-	2	3	-	1	-	-	1	-	-	-	2
CO302.4	3	-	2	3	-	1	-	-	1	-	-	-	2
CO302.5	3	-	2	3	-	1	-	-	2	-	-	-	2
CO302.6	3	-	3	-	-	-	-	-	1	-	-	-	2
	3	-	2.33	3	-	1	-	-	1	-	-	-	2



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Department of Pharmacy Practice, Regulation: PCI (R08)		
Year: III	Course Name: Pharmacotherapeutics-II	Course code: T303 (Theory)
Course Outcomes		
CO303.1	To know etiopathogenesis and pharmacotherapy of infectious diseases	
CO303.2	Understand the clinical management therapy of viral, fungal infections	
CO303.3	Assess the drug therapy used for treatment of musculoskeletal disorders	
CO303.4	Understand pharmacotherapy of drug's acting on renal system	
CO303.5	Understand basic principles of chemotherapy of cancer	
CO303.6	Acquire knowledge on pharmacotherapy of dermatological diseases	

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO303.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO303.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO303.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO303.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO303.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO303.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: III	Course Name: Pharmaceutical Jurisprudence
Course code ;T304 (Theory)	
Course Outcomes	
CO304.1	Understand about objectives of the Drug and Cosmetics Act.
CO304.2	Gain knowledge about the sale of drugs, labeling of drugs.
CO304.3	Gain knowledge about the code of pharmaceutical ethics with the importance of pharmacist role and pharmacists' oath and to remember Pharmacy Act with the education regulation & to get knowledge about Medical and toilet preparation Act.
CO304.4	Understand the constitution and functions of narcotic & Psychotropic consultative committee and to remember the objectives of, offences and penalties.
CO304.5	Remember the objectives of Drug and Magic remedies Act with the prohibition of certain advertisements and prevention of cruelty to animal Act with ethical committee and guidelines. Know about drugprice control order on bulk drugs and the sale price.
CO304.6	Know about the pharmaceutical legislation including different committees and understand about the objectives and rules regulations of Medical Termination and Pregnancy and all types of Intellectual property rights.

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO304.1	2	-	1	-	-	2	1	-	3	1	1	-	1
CO304.2	2	-	1	-	-	2	1	-	3	1	1	-	1
CO304.3	2	-	1	-	-	2	1	-	2	1	1	-	1
CO304.4	2	-	1	-	-	2	1	-	2	1	1	-	1
CO304.5	2	-	1	-	-	2	1	-	2	1	1	-	1
CO304.6	2	-	1	-	-	2	1	-	3	1	1	-	1
	2	-	1	-	-	2	1	-	3	1	1	-	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: III	Course Name: Medicinal Chemistry
Course code: T305 (Theory)	
Course Outcomes	
CO305.1	Apply modern techniques like Quantitative Structure Activity Relationship (QSAR), Prodrug concept, Combinatorial Chemistry and Computer Aided Drug Design (CADD) in rational drug design
CO305.2	Categorize the anti-infective agents based on their mechanism of action, understand their SAR, synthesis and clinical uses
CO305.3	Categorize the anti-malarial and anti-cancer agents based on their mechanism of action, understand their SAR, synthesis and clinical uses
CO305.4	Categorize the drugs acting on heart based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO305.5	Categorize the anti-diabetics and Local anesthetics based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO305.6	Categorize the drugs acting on Endocrine system based on their mechanism of action, understand their SAR, synthesis and clinical uses.

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO35.1	3	-	2	-	-	-	-	-	1	-	-	2	-
CO35.2	3	-	2	-	-	-	-	-	-	-	-	2	-
CO35.3	3	-	2	-	-	-	-	-	3	-	-	2	-
CO35.4	3	-	2	-	-	-	-	-	3	-	-	2	-
CO35.5	3	-	3	-	-	-	-	-	3	-	-	2	-
	3	-	3	-	-	-	-	-	3	-	-	2	-



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: III	Course Name: Pharmaceutical Formulations
Course code: T306 (Theory)	
Course Outcomes	
CO306.1	Know the importance of preformulation studies, excipients in the development and stability of dosage forms.
CO306.2	Understand the manufacturing techniques, formulation and evaluation methods of Tablets
CO306.3	Understand the manufacturing techniques, formulation and evaluation methods of Capsules.
CO306.4	Understand the manufacturing techniques, formulation and evaluation methods of Liquid oral preparations. Gain the knowledge on manufacturing techniques, formulation and evaluation methods of Parenteral and Ophthalmic preparations
CO306.5	Understand the manufacturing techniques, formulation and evaluation methods of Capsules, Semisolids.
CO306.6	Understand formulation, design and evaluation of various types of controlled drug delivery systems

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO306.1	3	-	2	2	-	-	-	-	1	1	-	1	1
CO306.2	3	-	2	2	-	-	-	-	1	1	-	1	2
CO306.3	3	-	2	2	-	-	-	-	1	1	-	1	2
CO306.4	3	-	2	2	-	-	-	-	1	1	-	1	2
CO306.5	3	-	2	2	-	-	-	-	1	1	-	1	2
	3	-	2	2	-	-	-	-	1	1	-	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: III Course Name: Pharmacology-II Course code: T307 (Practical)	
Course Outcomes	
CO307.1	Learn the importance of physiological salt solutions and to identify the effect of various drugs on isolated frog heart, blood pressure and heart rate of dog. Illustrate the diuretic activity of drugs in mice/rats.
CO307.2	Identify the dose response relationship, effect of drugs on DRC and to construct the drug concentrations by various bioassay methods using animal simulator software.
CO307.3	Categorize the PA2 and PD2 value of drugs using rat anococcygeus muscle and guinea pig ileum.
CO307.4	Interpret the effect of spasmogens and spasmolytics using rabbit jejunum. Predict various screening models for analgesic and anti-inflammatory.

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO307.1	2	-	3	2	-	-	-	-	-	-	-	-	1
CO307.2	2	-	3	2	-	-	-	-	-	-	-	-	1
CO307.3	2	-	3	2	-	-	-	-	-	-	-	-	1
CO307.4	2	-	3	2	-	-	-	-	-	-	-	-	1
	2	-	3	2	-	-	-	-	-	-	-	-	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: III	Course Name: Pharmaceutical Analysis Course code: T308 (Practical)
Course Outcomes	
CO308.1	To recall the separation and identification of compounds by chromatographic techniques
CO308.2	To explain the qualitative and quantitative analysis of drugs by spectroscopic techniques
CO308.3	To experiment with instrumental analysis of selected drugs as per Pharmacopoeia
CO308.4	To compare and characterize compounds by using analytical Techniques
CO308.5	To determine concentration of ions by electrometric analysis, to discuss the instrumentation, applications of advanced analytical techniques and to interpret spectral data

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO308.1	3	-	2	-	-	-	-	-	1	-	-	2	2
CO308.2	3	-	2	3	-	1	-	-	-	-	-	2	2
CO308.3	3	-	2	3	-	1	-	-	3	-	-	2	2
CO308.4	3	-	2	3	-	1	-	-	3	-	-	2	2
CO308.5	3	-	3	3	-	1	-	-	3	-	-	2	2
	3	-	2.20	3	-	1	-	-	2.50	-	-	2	2




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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: III	Course Name: Pharmacotherapeutics-II
Course code: T309 (Practical)	
Course Outcomes	
CO309.1	To remember and recall the pathophysiology and management of cardiovascular, respiratory, endocrine diseases and viral infections
CO309.2	To identify various drug interactions and rationalize the prescription.
CO309.3	To plan the quality use of medicines surrounding the therapeutic agents in the treatment of selected diseases
CO309.4	To analyse the clinical skills in the therapeutic management of selected disease conditions
CO309.5	To prioritize the treatment strategies for better patient outcome and discuss the controversies in treatment

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO309.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO309.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO309.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO309.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO309.5	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: III	Course Name: Medicinal Chemistry
Course code: T310 (Practical)	
Course Outcomes	
CO310.1	Synthesize, characterize and purify various medicinal compounds and intermediates.
CO310.2	Analyze the selected drugs present in dosage forms and to determine the assay by using various analytical techniques.
CO310.3	Prepare drugs and determine melting point or boiling point for prepared drugs.
CO310.4	Determine the partition coefficient of drugs

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO310.1	2	-	3	3	-	-	-	-	-	-	-	-	1
CO310.2	2	-	3	3	-	-	-	-	-	-	-	-	1
CO310.3	2	-	3	3	-	-	-	-	-	-	-	-	1
CO310.4	2	-	3	3	-	-	-	-	-	-	-	-	1
	2	-	3	3	-	-	-	-	-	-	-	-	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: III	Course Name: Pharmaceutical Formulations Course code: T311 (Practical)
Course Outcomes	
CO311.1	Assess the preformulation studies of drugs and interpret the characteristics of drugs.
CO311.2	Gain the knowledge on formulation and evaluation of tablets, capsules, containers.
CO311.3	Gain the knowledge on formulation and evaluation of injections and ophthalmics.
CO311.4	Prepare and evaluate cosmetics such as lipstick, cold cream and shampoo.

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO311.1	2	-	3	3	-	-	-	-	-	-	-	-	1
CO311.2	2	-	3	3	-	-	-	-	-	-	-	-	1
CO311.3	2	-	3	3	-	-	-	-	-	-	-	-	1
CO311.4	2	-	3	3	-	-	-	-	-	-	-	-	1
	2	-	3	3	-	-	-	-	-	-	-	-	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: IV	Course Name: Pharmacotherapeutics-III
Course code :T401 (Theory)	
Course Outcomes	
CO401.1	Understand etiopathogenesis and pharmacotherapy of GIT
CO401.2	Understand etiopathogenesis and pharmacotherapy of hematological diseases
CO401.3	Understand etiopathogenesis and pharmacotherapy of nervous system diseases / disorders
CO401.4	Understand etiopathogenesis and pharmacotherapy of psychiatric diseases.
CO401.5	Know the pain pathways and manage the pain condition in patients
CO41.6	Acquire knowledge on evidence-based medicine.

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO401.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Year: IV	Course Name: Hospital Pharmacy Code: T402(Theory)
Course Outcomes	
CO402.1	Understand basic organization, functions, budget preparation and implementation of hospital pharmacy
CO402.2	Acquire the hospital drug policy and implement in hospital pharmacy services
CO402.3	Understand and implement the hospital pharmacy services for patient care
CO402.4	Acquire knowledge on compounding and dispensing pharmaceutical preparations
CO402.5	Continue education and training in professional developmental programs.
CO402.6	Understand the professional relations and practices of hospital pharmacy

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO401.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO401.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: IV	Course Name: Clinical Pharmacy Code: T403(Theory)
Course Outcomes	
CO403.1	Monitor and review the daily activities of clinical pharmacist and remain better services to patients
CO403.2	Interpret the patient data, case history, and give suggestions to patients for better care
CO403.3	Interpret the clinical laboratory tests for evaluation /diagnosis of diseases
CO403.4	Obtain drug and poison information form resources and establish DIC
CO403.5	Conduct pharmacovigilance studies for ADR monitoring
CO403.6	Evaluate critical medical errors.

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO403.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO403.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO403.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO403.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO403.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO403.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)

Year: II Course Name: Biostatistics and Research Methodology Course code: T404 (Theory)

Course Outcomes

CO404.1	Explain the need of research, research designs and their applications and to explain methodological designs. Apply the clinical research methods in clinical development of drugs.
CO404.2	Understand the basic aspects of statistics such as central tendency, dispersion, correlation and regression.
CO404.3	Know the statistical techniques and to apply those to solve the statistical problems
CO404.4	Operate statistical tools like M.S. Excel, SPSS, R and MINITAB.
CO404.5	Apply statistical principles in epidemiology
CO404.5 6	Analyze and apply the computers applications in M. Geetapharmacy.

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO404.1	1	-	3	2	-	-	-	-	-	-	-	3	-
CO404.2	1	-	3	2	-	-	-	-	-	-	-	3	-
CO404.3	1	3	3	2	-	-	-	-	-	-	-	3	-
CO404.4	1	1	3	3	-	-	-	-	-	-	-	3	-
CO404.5	1	1	3	3	-	-	-	-	-	-	-	3	-
CO404.6	1	-	3	2	-	-	-	-	-	-	-	3	-
	1	2	3	2	-	-	-	-	-	-	-	3	-



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Department of Pharmacy Practice, Regulation: PCI (R08)		
Year: IV	Course Name: Biopharmaceutics And Pharmacokinetics	Course code: T405 (Theory)
Course Outcomes		
CO405.1	Understand basic concepts of absorption, distribution of drugs in body.	
CO405.2	Understand basic concepts of elimination of drugs in body. Define and explain the principles and importance of drug products as they are bioavailable and bioequivalent as well as to outline the results by using the hyphenated tools to interpret the results.	
CO405.3	Utilize the pharmacokinetic models for the determination of pharmacokinetic parameters.	
CO405.4	Understand the application of pharmacokinetic models in design of dosage form.	
CO405.5	Able to design multiple dosage regimens based on pharmacokinetic parameters for maximizing patient compliance and therapeutic effectiveness.	
CO405.6	Interpret the data and to understand the basic principles of multi-compartmental & nonlinear Pharmacokinetic models.	

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO405.1	2	-	2	1	-	-	-	-	-	-	-	-	2
CO405.2	2	-	2	1	-	-	-	-	-	-	-	-	2
CO405.3	1	-	2	2	-	-	-	-	-	-	-	-	2
CO405.4	1	-	2	2	-	-	-	-	-	-	-	-	2
CO405.5	2	-	2	2	-	-	-	-	-	-	-	-	2
CO405.6	2	-	2	1	-	-	-	-	-	-	-	-	2
	1.66	-	2	1.5	-	-	-	-	-	-	-	-	2



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Department of Pharmacy Practice, Regulation: PCI (R08)		
Year: IV	Course Name: Clinical Toxicology	Course code : T406 (Theory)
Course Outcomes		
CO406.1	Understand general principles in management of poisoning and its antidotes	
CO406.2	Study toxicokinetic and know measures taken in supporting clinical toxicology	
CO406.3	Understand clinical symptoms and management of acute poisoning	
CO406.4	Analyse clinical symptoms and management of metal poisoning	
CO406.5	Gain knowledge on first aid for snake bite and plant food poisoning	
CO406.6	Understand the envenomations effects and substance abuse.	

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO406.1	1	3	1	1	1	-	2	1	-	1	-	1	1
CO406.2	1	3	1	1	1	-	2	1	-	1	-	1	1
CO406.3	1	3	1	1	1	-	2	1	-	1	-	1	1
CO406.4	1	3	1	1	1	-	2	1	-	1	-	1	1
CO406.5	1	3	1	1	1	-	2	1	-	1	-	1	1
CO406.6	1	3	1	1	1	-	2	1	-	1	-	1	1
	1	3	1	1	1	-	2	1	-	1	-	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)		
Year: IV	Course Name: Pharmacotherapeutics-III	Course code: T407 (practical)
Course Outcomes		
CO4071	To remember and recall the pathophysiology of selected diseases and rationale for drug therapy.	
CO407.2	To identify various therapeutic approaches for the management of selected diseases.	
CO407.3	To apply the concepts of various drug therapies and identify the controversies in drug therapy.	
CO407.4	To assess the drug therapy by preparing individual therapeutic plan based on diagnosis.	
CO407.5	To evaluate the patient specific parameters relevant in initiating drug therapy and monitoring therapy. To create a pharmaceutical care plan, design a list of patient counselling points on the specific illness.	

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO4071.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO407.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO407.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO407.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO407.5	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: IV	Course Name: Hospital Pharmacy Course: T408 (Practical)
Course Outcomes	
CO408.1	Assess the drug interaction in given prescription
CO408.2	Design the formulations and dispense it.
CO408.3	Suggest the solutions related to drug information queries.
CO408.4	Acquire knowledge to prepare inventory control in hospital pharmacy

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO408.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO408.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO408.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO408.4	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: IV	Course Name: Clinical Pharmacy Course code: T409 (Practical)
Course Outcomes	
CO409.1	Analyze drug information queries
CO409.2	Conduct patient medication counseling and suggest necessary precautions
CO409.3	Perform case studies related to lab reports
CO409.4	Conduct interview with patients regarded premedication history

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO409.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO409.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO409.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO409.4	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)		
Year: IV	Course Name: Biopharmaceutics & Pharmacokinetics	Course code: T410 (Practical)
Course Outcomes		
CO410.1	Compare dissolution profiles of 2/more marketed drugs and analyze	
CO410.2	Improve dissolution rate of poorly water-soluble drugs.	
CO410.3	Conduct BA studies according to BA protocol	
CO410.4	Calculate different PK parameters by using pk models	

CO-PO Mapping

CO	Program outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO410.1	2	-	2	1	-	-	-	-	-	-	-	2	2
CO410.2	2	-	2	1	-	-	-	-	-	-	-	2	2
CO410.3	1	-	2	2	-	-	-	-	-	-	-	2	2
CO410.4	1	-	2	2	-	-	-	-	-	-	-	2	2
	2	-	2	2	-	-	-	-	-	-	-	2	2



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Clinical Research (Theory) Course code: T501
Course Outcomes	
CO501.1	Explain various approaches in drug development process.
CO501.2	Outline various phases of clinical trails
CO501.3	Abbreviate the drug approval process in India and USA
CO501.4	Understand OECD guidelines in clinical research and ICH guidelines
CO501.5	Understand roles and responsibilities of clinical trial personnel according to GCP
CO501.6	Dosing clinical research protocols

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO501.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO501.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO501.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO501.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO501.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO501.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1




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Department of Pharmacy Practice, Regulation: PCI (R08)

Year: I Course Name: Pharmacoepidemiology and Pharmacoeconomics Course code: T502

Course Outcomes

CO502.1	Understand the scope, measurement of outcomes and risk in pharmacoepidemiology
CO502.2	Elaborate the methods used in pharmacoepidemiology
CO502.3	Understand source of data and application of pharmaco epidemiology
CO502.4	Understand history needs of pharmacoeconomic evaluation
CO502.5	Know types and outcome assessment of PE evaluation
CO502.6	Apply software to solve Pharmacoeconomics

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO502.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)

Year: I Course Name: Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring Course code: T503

Course Outcomes

CO503.1	Elaborate the need and method of designing dosage regimens
CO503.2	Evaluate pk of drug interactions of drugs
CO503.3	Evaluate TDM in detail
CO503.4	Apply PK models and parameters to adjust the drug dose in renal and hepatic diseases treatment
CO503.5	Gain knowledge on population PK
CO503.6	Understand pharmacogenetics and its PK considerations

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO503.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO503.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO503.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO503.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO503.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO503.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Clerkship
Course Code: T504	
Course Outcomes	
CO504.1	Discuss the role of the pharmacist in clinical pharmacy services.
CO504.2	Enlist the various therapeutic alternatives for the management of disease and disorders.
CO504.3	Create a drug treatment strategy for a specific situation.
CO504.4	Recognize, understand and report drug interactions and medication errors.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO504.1	3	2	2	2	-	-	-	-	1	-	2	2	2
CO504.2	3	2	2	2	-	-	-	-	-	-	2	2	2
CO504.3	3	2	2	2	-	-	-	-	3	-	2	2	2
CO504.4	3	2	2	2	-	-	-	-	3	-	2	2	2
	3	2	2.20	2	-	-	-	-	2.50	-	2	2	2



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Department of Pharmacy Practice, Regulation: PCI (R08)	
Year: I	Course Name: Project Work Course Code: T505
Course Outcomes	
CO505.1	Define the fundamentals, carry out the literature review on the proposed research work and identify the problem.
CO505.2	Develop the research hypothesis.
CO505.3	Summarize the requirements in the proposed research.
CO505.4	Take part in research experiments and documented.
CO505.5	Evaluate the work done by applying statistic tools.
CO505.6	Appraise societal application and appreciation.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO505.1	3	2	2	-	-	2	3	-	1	1	2	2	1
CO505.2	3	2	3	-	-	1	-	-	-	1	2	2	1
CO505.3	3	2	2	3	-	1	-	-	3	1	2	2	1
CO505.4	3	2	2	3	-	1	-	-	3	1	2	2	1
CO505.5	3	2	2	3	-	1	-	-	3	1	2	2	1
CO505.6	3	2	2	3	-	1	-	-	3	1	2	2	1
	3	2	2.20	3	-	1.20	3	-	2.50	1	2	2	1

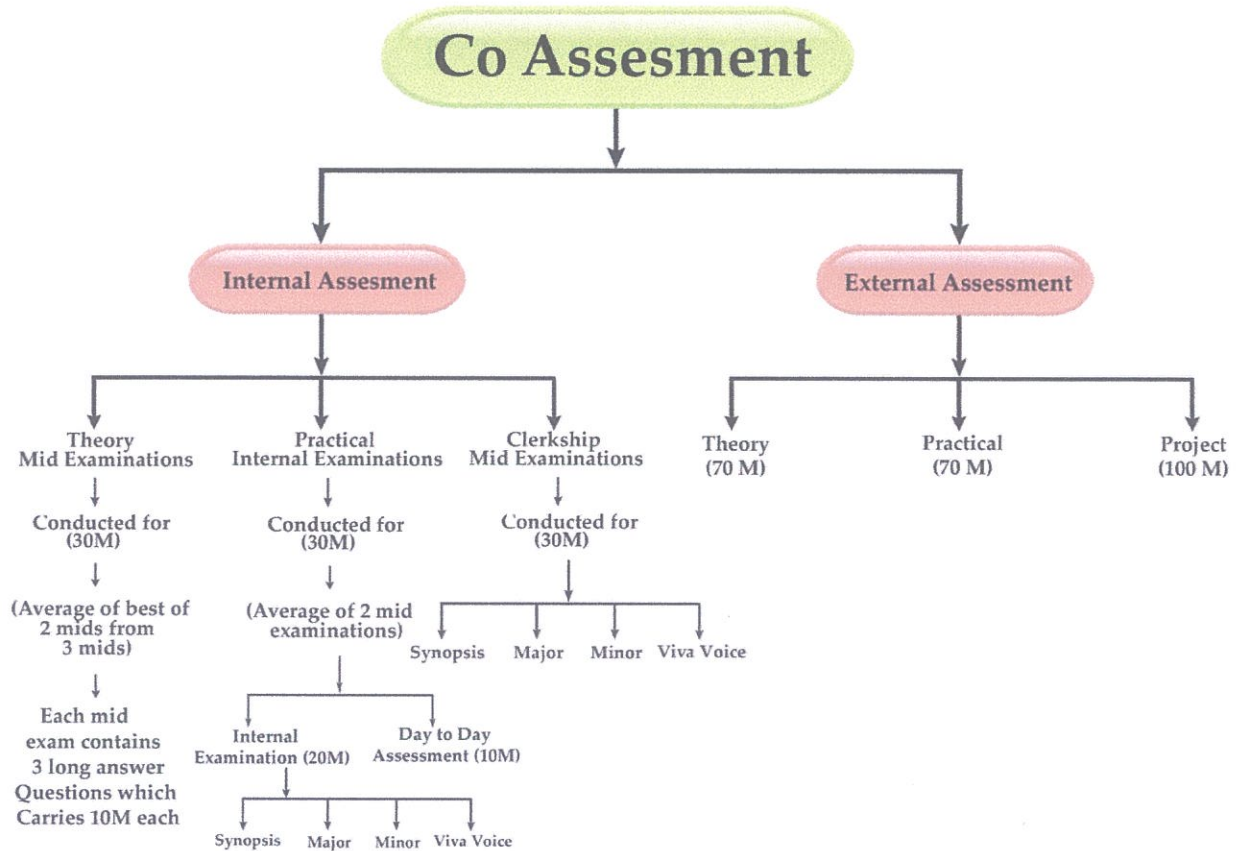


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CO Assessment and Attainment Process:

Direct attainment of COs is determined from the performance of students in Internal Examination (IE) and External Examination (EE).



CO Assessment for Pharm D university Examinations

- For each theory course, they are three internal examinations and the division of CO's is listed below.

Theory Course	Units	CO described
Mid Examination - I	Unit - I	CO1
	Unit - II	CO2
Mid Examination - II	Unit - III	CO3
	Unit - IV	CO4
Mid Examination - III	Unit - V	CO5
	Unit - VI	CO6

* Some of the courses may alter CO described according to the number of units, in that case we are merging 2/3 units as one unit



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- For each practical course, they are two internal examinations and the division of CO's is listed below.

Practical Course	CO described
Mid Examination - I	CO1
	CO2
Mid Examination - II	CO3
	CO4

- Course assessment process starts with the marks secured by the students from internal and external examination. The CO attainment levels are measured based on the results of the average of best of two internal examinations and year end examination conducted by the university.
- The finalized CO-PO articulation matrix was taken and Set Attainment level (Target) for each course. The Target will be fixed by considering the class average marks obtained in semester examination of previous batch or analyzing the nature of the course by distinguishing whether it belongs to Analytical / Theory / Problematic course or Targets are approximately given into certain levels.
- If a course is newly introduced in the curriculum, then the Target will be fixed as 60% by the concern faculty handling the course. Each CO is assessed with the tools chosen by the course coordinators. Each tool will represent the scores secured by the individual student and the attainment level for each CO is calculated by measuring the percentage of students scored equal or more than the Target fixed for that course.
- For measuring the attainments of COs of a theory or practical course, the targets for the attainment are fixed as indicated below:

Course	Target
Theory Internal Examinations	
Subjective (30 M)	75% of maximum marks (22.50 marks out of 30)
Practical Internal Examinations	
Lab internal Exam (20 M)	75 % of maximum marks (15 marks out of 20)
Continuous Mode (10 M)	75 % of maximum marks (7.5 marks out of 10)
External Examinations	
Both Theory and Lab courses	Marks weightage obtained subject to a minimum of 60%
Project	75 % of maximum marks (75 marks out of 100)




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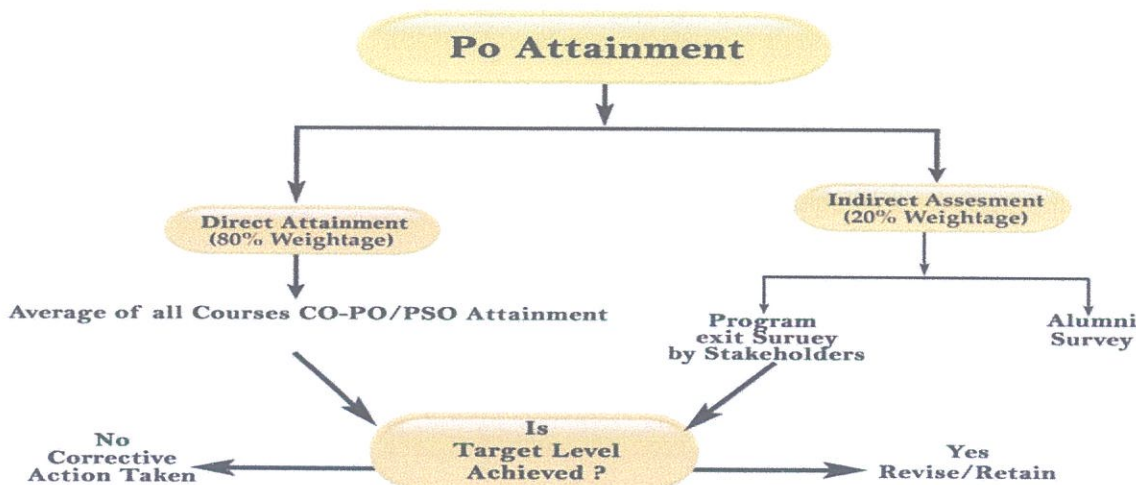
- The attainment levels are set as given below

Attainment Level	Theory Subjects	Practical Subjects
Level 1	0-59 % of Students scored the set attainment level	0-59% of Students scored the set attainment level
Level 2	60-79 % of Students scored the set attainment level	60-79 % of Students scored the set attainment level
Level 3	>80 % of Students scored the set attainment level	>80 % of Students scored the set attainment level

- As per the regulation PCI, the normalization percentage will be considered for measuring the final attainment of each COs of a course. For theory courses 40% of IE and 60% of EE will be calculated. For Laboratory and Project courses 40% of IE and 60% of EE will be calculated.
- The CO attainment for the course will be calculated by taking the average of all CO's final attainment value. If the Final Attainment of the Course outcomes are equal to the target, then all the course outcomes are attained else not attained. If a course failed to attain the set attainment target, then action to be taken for continuous improvement will be suggested by the course handling faculty.

PO/PSO Assessment and Attainment process:

Program outcomes are narrower statements that describe what students are expected to be able to do by the time of graduation. POs are expected to be aligned closely with Graduate Attributes. Program Specific Outcomes are what the students should be able to do at the time of graduation with reference to a specific discipline.



PO/PSO Assessment and Attainment process

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Direct Method:

Once the overall attainment percentage of each COs is calculated, the PO and PSO attainment is calculated by taking the cumulative average of the entire course's CO attainment which contributes to the specific Program Outcomes and Program Specific Outcomes. The overall CO attainment values are calculated for all the direct assessment tools. For theory and practical courses,

$$\text{Overall CO attainment} = 0.25 * \text{Internal Exams attainments} + 0.75 * \text{External Exams attainments}$$

Indirect Method:

Indirect methods such as surveys and interviews ask the stakeholders to reflect on student learning. They assess opinions or thoughts about the graduate's knowledge or skills and their valued contributions to different stakeholders. An indirect assessment is used to measure certain implicit qualities of student learning, such as values, perceptions, and attitudes from a variety of perspectives. The stakeholders include students, alumni, faculty, employers, and parents.

$$\text{Indirect PO Attainment} = 80\% \text{ of Program Exit Feedback} + 10\% \text{ of Alumni Feedback} + 10\% \text{ Employer Feedback}$$

Overall Attainment of PO

$$\text{Overall PO attainment} = 80\% \text{ of Direct PO Attainment} + 20\% \text{ of Indirect PO Attainment}$$

- The obtained values will be compared with the set attainment target fixed for each PO and PSO. If the target is achieved, then the same process will be continued for further batches. If the target is not achieved, then continuous improvement action will be taken for each PO and PSO.
- Continuous improvement action includes Action to be taken for improving the teaching learning process based on the attainment gap or by improving learning facilities or organizing programs to fill the attainment gap.



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CO - PO Attainment for 2017- 2023 Pharm-D Batch

The CO and PO/PSO of all the subjects during the 2017- 2023 batch were calculated after evaluating the results. In our department of Pharmacy Practice, Twenty Seven theory courses, Nineteen practical courses and One project work were conducted during the 2017- 2023 batch under PCI (R08) regulation. The following data provides the CO and PO/PSO of 2017- 2023 Batch.

S NO	Course Code	Course Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2
1	T101	Human Anatomy and Physiology	1.71	-	1.69	1.88	-	1.64	-	-	1.25	-	1.80	1.71	-
2	T102	Pharmaceutics	1.59	-	1.58	1.63	-	1.57	1.50	-	1.62	-	-	1.58	-
3	T103	Medicinal Biochemistry	2.15	-	2.10	2.31	-	2.07	1.75	-	2.27	-	-	2.13	-
4	T104	Pharmaceutical Organic Chemistry	1.67	-	1.55	1.75	-	1.64	-	-	1.50	-	1.70	1.67	-
5	T105	Pharmaceutical Inorganic Chemistry	1.75	-	1.73	1.88	-	1.71	-	-	1.50	-	1.80	1.50	1.75
6	T106	Remedial Mathematics	1.17	3.00	1.30	-	-	-	-	-	1.50	3.00	1.58	1.25	-
7	T107	Remedial Biology	1.75	-	1.60	-	-	-	-	-	1.50	-	1.58	1.60	-
8	T108	Human Anatomy and Physiology - I Practical	3.00	-	3.00	-	-	-	-	-	3.00	3.00	3.00	3.00	3.00



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9	T109	Pharmaceutics Practical	3.00	-	3.00	-	-	-	-	-	3.00	3.00	3.00	3.00	3.00
10	T109	Biochemistry Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	-	3.00
11	T110	Pharmaceutical Organic Chemistry Practical	1.00	-	1.00	-	-	-	-	-	-	-	-	-	1.00
12	T111	Pharmaceutical Inorganic Chemistry Practical	3.00	-	3.00	3.00	-	3.00	-	-	3.00	-	3.00	3.00	3.00
13	T112	Remedial Biology	3.00	-	3.00	3.00	-	3.00	-	-	3.00	-	3.00	3.00	3.00
14	T201	Pathophysiology	1.75	-	1.82	-	-	-	-	-	1.85	-	1.75	1.75	-
15	T202	Pharmaceutical Microbiology	2.29	-	2.29	2.29	-	-	-	-	-	-	2.29	2.29	2.29
16	T203	Pharmacognosy & Phytopharmaceuticals	3.00	-	3.00	3.00	-	3.00	-	-	3.00	-	3.00	3.00	-
17	T204	Pharmacology - I	1.75	-	1.75	1.75	-	-	-	-	-	1.75	1.75	1.88	1.75
18	T205	Community Pharmacy	2.29	2.29	2.29	2.29	2.29	-	2.29	2.29	-	2.29	2.29	2.29	2.29
19	T206	Pharmacotherapeutics-I	2.38	2.38	2.38	2.38	2.38	-	2.38	2.38	-	2.38	2.38	2.38	2.38
20	T207	Pharmaceutical Microbiology Practical	3.00	-	3.00	-	-	3.00	-	-	-	-	3.00	-	3.00



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21	T208	Pharmacognosy & Phytopharmaceuticals Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
22	T209	Pharmacotherapeutics-I Practical	3.00	3.00	3.00	3.00	3.00	-	3.00	3.00	-	3.00	3.00	3.00	3.00
23	T301	Pharmacology -II	1.75	-	1.75	1.75	-	-	-	-	-	1.75	1.75	1.88	1.75
24	T302	Pharmaceutical Analysis	2.38	-	2.36	2.44	-	2.44	-	-	2.50	-	-	2.38	2.38
25	T303	Pharmacotherapeutics -II	1.75	1.75	1.75	1.75	1.75	-	1.75	1.75	-	1.75	1.75	1.75	1.75
26	T304	Pharmaceutical Jurisprudence	2.83	-	2.83	-	-	2.83	2.83	-	2.83	2.83	-	2.83	2.83
27	T305	Medicinal Chemistry	1.67	-	1.75	-	-	-	-	-	1.73	-	1.67	1.67	-
28	T306	Pharmaceutical Formulations	2.83	-	2.33	2.83	-	-	-	-	2.83	2.83	2.83	2.85	2.83
29	T307	Pharmacology II Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
30	T308	Pharmaceutical Analysis Practical	3.00	-	3.00	3.00	-	3.00	-	-	3.00	-	3.00	3.00	-
31	T309	Pharmacotherapeutics -III Practical	1.20	1.20	1.20	1.20	1.20	-	1.20	1.20	-	1.20	1.20	1.20	1.20
32	T3110	Medicinal Chemistry Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00

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33	T3111	Pharmaceutical Formulations Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
34	T401	Pharmacotherapeutics-III	1.50	1.50	1.50	1.50	1.50	-	1.50	1.50	-	1.50	1.50	1.50	1.50
35	T402	Hospital Pharmacy	3.00	3.00	3.00	3.00	3.00	-	3.00	3.00	-	3.00	3.00	3.00	3.00
36	T403	Clinical Pharmacy	0.75	0.75	0.75	0.75	0.75	-	0.75	0.75	-	0.75	0.75	0.75	0.75
37	T404	Biostatistics & Research Methodology	2.25	2.25	2.25	2.25	-	-	-	-	-	-	2.25	-	2.25
38	T405	Biopharmaceutics & Pharmacokinetics	2.25	-	2.25	2.25	-	-	-	-	-	-	-	2.25	2.25
39	T406	Clinical Toxicology	1.50	1.50	1.50	1.50	1.50	-	1.50	1.50	-	1.50	1.50	1.50	1.50
40	T407	Pharmacotherapeutics - III Practical	3.00	3.00	3.00	3.00	3.00	-	3.00	3.00	-	3.00	3.00	3.00	3.00
41	T408	Hospital Pharmacy Practical	3.00	3.00	3.00	3.00	3.00	-	3.00	3.00	-	3.00	3.00	3.00	3.00
41	T409	Clinical Pharmacy Practical	3.00	3.00	3.00	3.00	3.00	-	3.00	3.00	-	3.00	3.00	3.00	3.00
42	T410	Biopharmaceutics & Pharmacokinetics Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
43	T501	Clinical Research	2.17	2.17	2.17	2.17	2.17	-	2.17	2.17	-	2.17	2.17	2.17	2.17



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44	T502	Pharmacoepidemiology and Pharmacoeconomics	2.90	2.90	2.90	2.90	2.90	-	2.90	2.90	-	2.90	2.90	2.90	2.90
45	T503	Clinical Pharmacokinetics & Pharmacotherapeutic Drug Monitoring	1.50	1.50	1.50	1.50	1.50	-	1.50	1.50	-	1.50	1.50	1.50	1.50
46	T504	Clerkship	3.00	3.00	3.00	3.00	-	-	-	-	3.00	-	3.00	3.00	3.00
47	T505	Project	3.00	3.00	3.00	3.00	-	3.00	3.00	-	3.00	3.00	3.00	3.00	3.00



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Overall Attainment

To calculate the final PO/ PSO attainments Direct and Indirect attainments are added in the proportion of 80: 20

CO-PO Attainment	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2
Direct	2.34	2.32	2.3	2.4	2.19	2.41	2.29	2.19	2.34	2.35	2.29	2.34	2.44
Indirect	2.64	2.45	2.67	2.89	2.98	2.68	2.98	2.88	2.48	2.33	2.46	2.88	2.98
Overall	2.4	2.346	2.374	2.498	2.348	2.464	2.428	2.348	2.368	2.346	2.324	2.448	2.548



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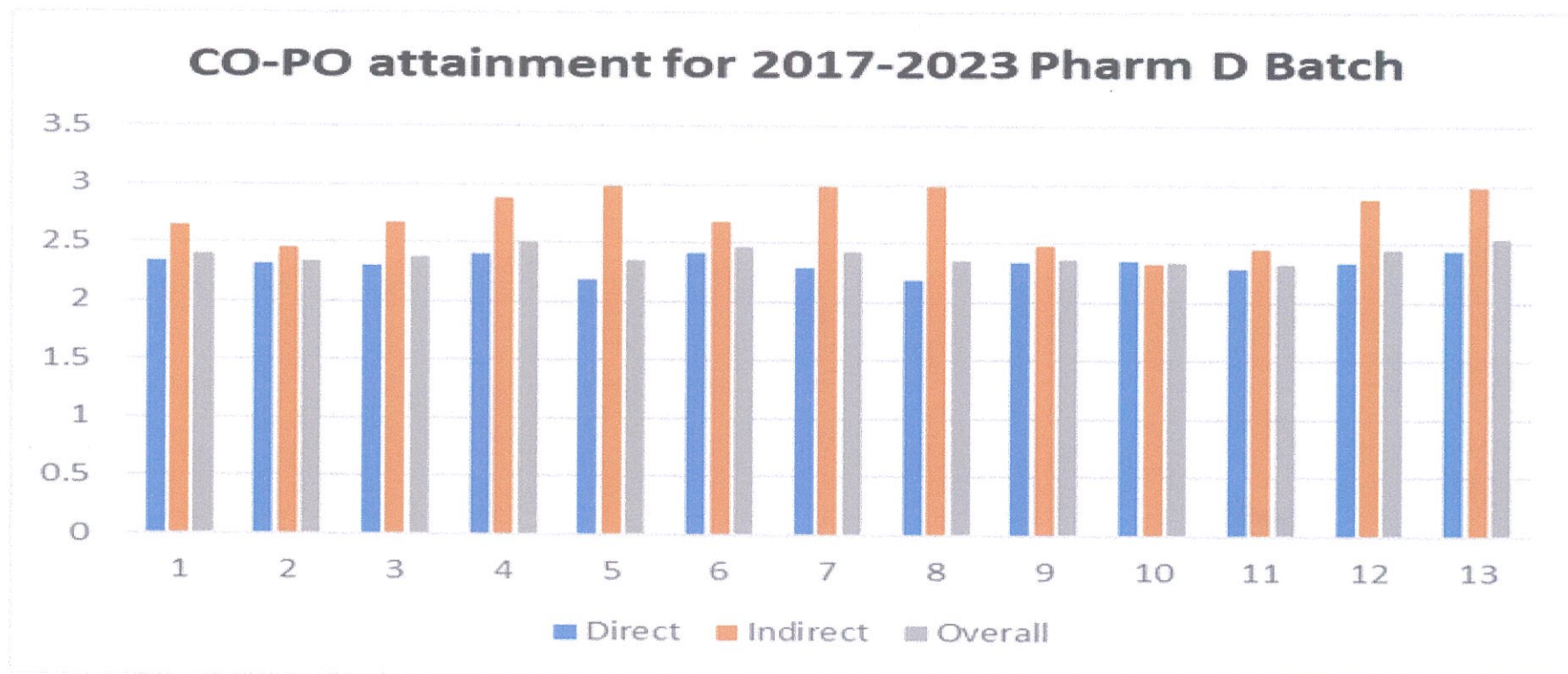
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CO-PO attainment for 2017-2023 Pharm D Batch



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Continuous Quality Improvement for POs and PSOs

Target= 2.3

Observation: All PO's and PSO's attained the target.

Action Taken Report: Actions taken based on the results of evaluation of each of the COs, POs and PSOs.

POs Attainment Levels and Actions for Improvement for Pharm D 2017-2023 Batch

POs Target Level Attainment Level Observations

PO 1 : Comprehensive pharmacy and clinical knowledge 2.40 2.30

Target level is reached with respect to course outcomes. Target is attained by demonstrating mastery and application of core knowledge and skills in relation to the evolving pharmaceutical, biomedical, clinical and epidemiological sciences. This provides the cognizance to apply those skills in Pharmacy Practice.

The following courses did not meet the target level: T101, T102, T103, T104, T105, T106, T107, T110, T201, T202, T204, T205, T301, T303, T305, T309, T401, T403, T404, T405, T406, T501 and T503.

Action 1: Encouraged to participate in internships and residency programs in hospitals, community pharmacies.

Action 2: Initiated the effective use of the library for reference to the latest journals related to the subject and other resources among students.

Action 3: Engaged in ongoing learning through workshops, conferences, online courses, and other forms of continuing education to stay updated on new drugs, treatment guidelines, and advancements in pharmacy practice.

Action 4: Added extra lab sessions to improve practical knowledge.

Action 5: Students encouraged involving in the activities for Direct Patient Care.



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PO2 : Patient Centered Care 2.34 2.30

Target level is reached with respect to course outcomes. Target is achieved by providing patient-centered care to diverse patients using the best available evidence and in consideration of patients circumstances to devise, modify, implement, document and monitor pharmacotherapy care plans, either independently or as part of healthcare teams.

The following courses did not meet the target level: T205, T301, T303, T309, T401, T403, T404, T406, T501 and T503.

Action1: Students encouraged referring to international journals for real-world exposure in the tutorial hours.

Action 2: Small quizzes and group discussions are also engaged in the tutorial hour to increase the participation of students.

Action 3: Seminars/ Mini Project/Project were conducted so that they will have exposure to state of the art.

Action 4: Some Case studies had been given as assignments.

Action 5: Initiated to solve more problematic questions during tutorial hours and motivate the students to use library resources effectively.

PO3: Problem solving and decision making 2.37 2.30

Target level is reached with respect to course outcomes. Target is attained by enabling the students to address complex clinical situations, optimize patient outcomes, and contribute to healthcare teams.

The following courses did not meet the target level: T101, T102, T103, T104, T105, T106, T107, T110, T201, T202, T203, T204, T205, T301, T303, T309, T401, T403, T404, T405, T406, T501 and T503.

Action 1: Encourage students to analyze patient cases, identify relevant information, and develop evidence-based recommendations.

Action 2: Conduction of Clinical clerkships and internships provide hands-on experience.

Action 3: Added extra lab sessions to improve practical knowledge.

Action 4: Encourage to participate in poster presentations conducted in the college and other institutes on a yearly basis.

Action 5: Viva-voce was conducted to understand the capability of the students.



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Action 6: Tutorial classes were conducted with more participation from students.

PO4: Social and cultural awareness 2.49 2.30

Target level is reached with respect to course outcomes. Target is attained by various approaches such as Diversity and Inclusion Training, Communication Skills Courses and Health Disparities Education.

The following courses did not meet the target level: T101, T102, T104, T105, T202, T204, T205, T301, T303, T309, T401, T403, T404, T405, T406, T501 and T503.

Action1: Encouraging students to engage in research projects that explore the intersection of pharmacy practice and cultural considerations can deepen their understanding.

Action 2: Involvement in community outreach programs and Medical camps can expose students to the health needs of specific communities.

Action 3: Small quizzes and group discussions also engaged in the tutorial hour to increase the communication skills, which facilitates personalized patient care..

PO5 : Leadership Skills 2.34 2.30

Target level is almost reached with respect to course outcomes. Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfilment of practice, professional and societal responsibilities.

The following courses did not meet the target level: T205, T303, T309, T401, T403, T404, T405, T406, T501 and T503.

Action1: Various leadership courses and workshops conducted on leadership development.

Action 2: Group discussions in the class were organized.

Action 3: Sessions were conducted to explain the concepts.

Action 4: Tests conducted to know the level of students.



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PO 6 : Innovation and entrepreneurship 2.46 2.30

Target level is reached with respect to course outcomes. Achievement of target indicates that the students were getting opportunities to use their pharmacy Knowledge for the welfare of society and encouraging creative thinking, problem-solving, and the development of new solutions to address healthcare challenges.

The following courses did not meet the target level: T101, T102, T103, T104, T105, and T302.

Action 1: NSS and entrepreneurship clubs were conducting workshops.

Action 2: Social Service activities were conducted.

Action 3: Familiarization of various healthcare apps and diagnostic kits were demonstrated.

Action 4: Tutorials classes had conducted with more participation from students.

Action 5: Small quizzes and group discussions were also engaged in the tutorial hour to increase the participation of students.

PO7: Pharmaceutical Ethics 2.42 2.30

Target level is marginally reached with respect to course outcomes. The Pharmaceutical legislations provided the knowledge to students to follow the standards. The Pharmaceutical ethics covered in subjects like Pharmacy Practice, Research Methodology, Pharmacology and Pharmaceutical jurisprudence maintaining patient confidentiality, responding to errors in care and professional misconduct (including plagiarism), and understanding principles of ethical research (including conflicts of interest and obtaining appropriate informed consent).

The following courses did not meet the target level: T102, T103, T205, T303, T309, T401, T403, T406, T501 and T503.

Action 1: On the campus, the awareness program on ethics and its pitfalls were organized by police officials for students.

Action 2: Students are given a workshop and bridge course on Personality Development (Resource Persons: Counselors)

Action 3: Tests conducted to know the level of students

Action 4: Viva-voce is conducted to understand the capability of the students.




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Action 5: Provide different links and guidance regarding the scope of learning designing and professional ethics.

PO8: Interpersonal and Communication skills 2.34 2.30

Target level is reached with respect to course outcomes. Target was attained through effective interpersonal written and verbal skills, adapt to socioeconomic and cultural factors as well as situational applications and Function effectively in a team and act in a consultative position for other members of the health care team, regulatory agencies and policy makers.

The following courses did not meet the target level: T101, T102, T103, T104, T105, T106, T107, T201 and T305.

Action 1: Students were grouped in the labs to simulate the teamwork activities.

Action 2: A bridge course on personality development was conducted for the students.

Action 3: Students were grouped for projects and mini-projects to work as a team.

Action 4: Test conducted to know the level of students

Action 5: Viva-voce is conducted to understand the capability of the students.

PO9: Clinical Pharmacist and the Society 2.36 2.30

Target level is reached with respect to course outcomes. The course provided an awareness of applying contextual knowledge to assess the societal health care needs and demonstrate effective planning abilities in order to solve problems related to health care practice.

The following courses did not meet the target level: T204, T205, T301, T303, T309, T401, T403, T406, T501 and T503.

Action 1: Medical camps and community awareness programs were conducted.

Action 2: Students were grouped for projects and mini-projects to work as a team.

Action 3: A bridge course on personality development was conducted for the students.

Action 4: Small quizzes and group discussions are also engaged in the tutorial hour to increase the participation of students.




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Action 5: Extra material had given as handouts to understand the concepts

PO10: Environment and Sustainability 2.34 2.30

Target level is reached with respect to course outcomes. In-house student projects were promoted, so as to enhance awareness on sustainability and related aspects. Several subjects have an impact on the environment and sustainable development related to environment.

The following courses did not meet the target level: T204, T205, T301, T303, T309, T401, T403, T406, T501 and T503.

Action 1: It is suggested to implement Green Pharmacy Design through energy-efficient lighting, heating, and cooling systems.

Action 2: Implementing programs for the safe disposal of expired or unused medications helps prevent environmental contamination.

PO11: Practice based learning and improvement 2.32 2.30

Target level is reached with respect to course outcomes. Target was achieved by Practicing the Patient Case Analysis, Reflective Assignments, Preceptor Feedback, Root Cause Analysis and Community Outreach Programs.

The following courses did not meet the target level: T101, T104, T105, T106, T107, T201, T202, T204, T205, T303, T305, T309, T401, T403, T404, T406, T501 and T503.

Action 1: Conducted workshop hours which consist of reporting adverse drug reactions, drug interactions etc.

Action 2: Encouraged the students to practice Simulation exercises such as patient counseling simulations, medication therapy management exercises, or drug information consultations.

Action 3: Engaged in research projects.

Action 4: Implementing strategies to enhance patient safety, optimize medication use, and improve overall healthcare delivery.



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PSOs Attainment Levels and Actions for Improvement (2017-2023)

PSOs Target Level Attainment Level Observations

PSO 1 : Scientific Thinking 2.44 2.30

Target level is reached with respect to course outcomes. Target is achieved by implementing the technical skills in dispensing, compounding of drugs and medicines and expertise in designing dosage regimen, recognizing possible adverse reactions.

The following courses did not meet the target level: T101, T102, T103, T104, T105, T106, T107, T201, T204, T205, T301, T303, T309, T401, T403, T406, T501 and T503.

Action 1: Various training programs and workshops were conducted to demonstrate the latest techniques in Pharmacotherapy of diseases.

Action 2: Students were motivated to participate in different activities.

Action 3: Expert Sessions conducted by experts and Medical Professionals.

Action 4: Trained to access and evaluate drug information sources and services.

PSO2: Professional practice 2.54 2.30

Target level is reached with respect to course outcomes. Students achieved the target by inculcating the practice of pharmacy for empowering the healthy living in the community by various means of awareness and health strategies.

The following courses did not meet the target level: T105, T110, T202, T204, T205, T301, T303, T309, T401, T403, T404, T406, T501 and T503.

Action 1: Conducted workshop hours which consists of Adverse drug reporting, Patient counselling and drug interactions.

Action 2: Group discussions on Case studies were conducted for the students.

Action 3: Remedial classes conducted for weaker students.

Action 4: Students learn to assess medication regimens, identify and resolve medication-related problems, and provide comprehensive medication reviews.

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The Department of Pharmacy Practice, CO and PO/PSO of all the subjects during the 2017 - 2023 Pharm D Batch was calculated after evaluating the results.

We are furnishing the details of the CO and PO/PSO attainments of a select theory, Practical and Project courses as Sample copies, the details of the subject, lab and project are:

- 1) Pharmacoepidemiology and Pharmacoeconomics
- 2) Clinical Pharmacy Practical
- 3) Project




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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

Cherukupally (Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist) - 531162

Regulation : PCI (R08) Subject : Pharmacoepidemiology and Pharmacoeconomics Year : V

Faculty: Mr. B Manoj, Department of Pharmacy Practice

Course Outcomes

CO502.1	Understand the scope, measurement of outcomes and risk in pharmacoepidemiology
CO502.2	Elaborate the methods used in pharmacoepidemiology
CO502.3	Understand source of data and application of pharmaco epidemiology
CO502.4	Understand history needs of pharmacoeconomic evaluation
CO502.5	Know types and outcome assessment of PE evaluation
CO502.6	Apply software to solve Pharmacoeconomics

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2
CO502.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.4	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.5	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.6	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1

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Regulation : PCI (R08) Subject : Pharmacoepidemiology and Pharmacoeconomics Year : V

Faculty: Mr. B Manoj, Department of Pharmacy Practice

Calculation Standards of Attainment

	<i>1:Low(40%)</i>	<i>2:Medium(60%)</i>	<i>3: High(75%)</i>
Descriptive (30M)	12	18	22.5


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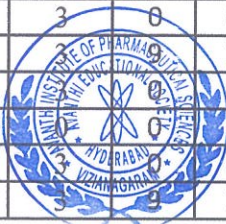
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Regulation:PCI(R08) , Subject:Pharmacoepidemiology and Pharmacoeconomics Year : V (MID-I)

Calculation standards of attainment

	1:Low (40%)	2:Medium (60%)	3:High (75%)									
Descriptive (30M)	12	18	22.5									
S.NO	Roll No	CO 1 (10 M)		CO 1 (10 M)		CO 2 (10 M)		CO 2 (10 M)		Final mid I marks (30 M)	Avg(D/Q/A) Attainment Level(CO1)	Avg(D/Q/A) Attainment Level(CO2)
		Q1	Att level	Q2	Att level	Q3	Att Level	Q4	Att Level			
1	17T51T0001	9	3	9	3	8	3	0	0	26	3.00	3.00
2	17T51T0002	10	3	8	3	0	0	9	3	27	3.00	3.00
3	17T51T0003	9	3	9	3	9	3	0	0	27	3.00	3.00
4	17T51T0004	10	3	9	3	0	0	8	3	27	3.00	3.00
5	17T51T0005	9	3	9	3	9	3	0	0	27	3.00	3.00
6	17T51T0006	9	3	9	3	10	3	0	0	28	3.00	3.00
7	17T51T0007	10	3	8	3	0	0	9	3	27	3.00	3.00
8	17T51T0008	0	0	9	3	9	3	10	3	28	3.00	3.00
9	17T51T0009	9	3	9	3	0	0	10	3	28	3.00	3.00
10	17T51T0010	10	3	8	3	0	0	10	3	28	3.00	3.00
11	17T51T0011	9	3	9	3	8	3	0	0	26	3.00	3.00
12	17T51T0013	9	3	9	3	0	0	9	3	27	3.00	3.00
13	17T51T0014	10	3	9	3	0	0	0	0	28	3.00	3.00
14	17T51T0015	10	3	9	3	0	0	9	3	28	3.00	3.00
15	17T51T0016	0	0	0	0	0	0	0	0	0	0.00	0.00
16	17T51T0017	10	3	9	3	0	0	10	3	29	3.00	3.00
17	17T51T0018	10	3	9	3	0	0	0	0	28	3.00	3.00



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18	17T51T0019	0	0	10	3	10	3	9	3	29	3.00	3.00
19	17T51T0020	9	3	9	3	0	0	10	3	28	3.00	3.00
20	17T51T0021	0	0	0	0	0	0	0	0	0	0.00	0.00
21	17T51T0022	9	3	9	3	0	0	8	3	26	3.00	3.00
22	17T51T0023	10	3	8	3	9	3	0	0	27	3.00	3.00
23	17T51T0024	9	3	9	3	8	3	0	0	26	3.00	3.00
24	17T51T0025	9	3	9	3	8	3	0	0	26	3.00	3.00
25	17T51T0026	0	0	10	3	8	3	9	3	27	3.00	3.00
26	16T51T0003	10	3	9	3	0	0	7	3	26	3.00	3.00
27	20T51T0101	9	3	9	3	0	0	10	3	28	3.00	3.00

Attainment Level Summary	CO1	CO2
Maximum Attainment Level	3	3
Cut-off Attainment Level(60%)	1.8	1.8
No.of Student >=Cut-off	25	25
% of students >=cut-off	93	93
Level Attained	3	3

Level of Attained			
% of students	<60	60-79	>=80
Level	1	2	3

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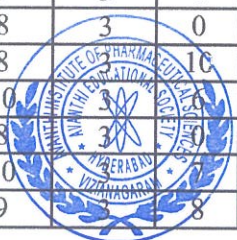
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Regulation:PCI(R08) , Subject:Pharmacoepidemiology and Pharmacoeconomics Year : V (MID-II)

Calculation standards of attainment

	1:Low (40%)	2:Medium (60%)	3:High (75%)									
Descriptive (30M)	12	18	22.5									
S.NO	Roll No	CO 3 (10 M)		CO 3 (10 M)		CO 4 (10 M)		CO 4 (10 M)		Final mid I marks	Avg(D/Q/A) Attainment Level(CO3)	Avg(D/Q/A) Attainment Level(CO4)
		Q1	Att level	Q2	Att level	Q3	Att Level	Q4	Att Level			
1	17T51T0001	0	0	0	0	0	0	0	0	0	0.00	0.00
2	17T51T0002	9	3	7	2	0	0	9	3	25	2.50	3.00
3	17T51T0003	10	3	9	3	0	0	7	2	26	3.00	2.00
4	17T51T0004	0	0	10	3	9	3	9	3	28	3.00	3.00
5	17T51T0005	9	3	9	3	0	0	8	3	26	3.00	3.00
6	17T51T0006	0	0	10	3	8	3	9	3	27	3.00	3.00
7	17T51T0007	10	3	0	0	8	3	8	3	26	3.00	3.00
8	17T51T0008	10	3	10	3	5	1	0	0	25	3.00	1.00
9	17T51T0009	0	0	10	3	8	3	9	3	27	3.00	3.00
10	17T51T0010	10	3	9	3	0	0	8	3	27	3.00	3.00
11	17T51T0011	10	3	9	3	0	0	8	3	27	3.00	3.00
12	17T51T0013	9	3	8	3	0	0	10	3	27	3.00	3.00
13	17T51T0014	8	3	8	3	10	3	0	0	26	3.00	3.00
14	17T51T0015	0	0	10	3	3	2	9	3	25	3.00	3.00
15	17T51T0016	10	3	8	3	0	0	7	2	25	3.00	2.00
16	17T51T0017	0	0	10	3	0	2	7	2	24	3.00	2.00
17	17T51T0018	0	0	9	3	8	3	9	3	26	3.00	3.00



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18	17T51T0019	0	0	0	0	0	0	0	0	0	0.00	0.00
19	17T51T0020	0	0	10	3	8	3	9	3	27	3.00	3.00
20	17T51T0021	9	3	9	3	0	0	10	3	28	3.00	3.00
21	17T51T0022	9	3	9	3	9	3	0	0	27	3.00	3.00
22	17T51T0023	0	0	8	3	9	3	10	3	27	3.00	3.00
23	17T51T0024	8	3	9	3	0	0	9	3	26	3.00	3.00
24	17T51T0025	0	0	8	3	8	3	7	2	23	3.00	2.50
25	17T51T0026	9	3	9	3	0	0	8	3	26	3.00	3.00
26	16T51T0003	0	0	0	0	0	0	0	0	0	0.00	0.00
27	20T51T0101	8	3	9	3	0	0	9	3	26	3.00	3.00

Attainment Level Summary	CO3	CO4
Maximum Attainment Level	3	3
Cut-off Attainment Level(60%)	1.8	1.8
No.of Student >=Cut-off	24	23
% of students >=cut-off	89	85
Level Attained	3	3

Level of Attained			
% of students	<60	60-79	>=80
Level	1	2	3

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Regulation:PCI(R08) , Subject:Pharmacoepidemiology and Pharmacoeconomics Year : V (MID III)

Calculation standards of attainment

	1:Low (40%)	2:Medium (60%)	3:High (75%)									
Descr iptive (30M)	12	18	22.5									
S.NO	Roll No	CO 5 (10 M)		CO 5 (10 M)		CO 6 (10 M)		CO 6 (10 M)		Final mid I mark s	Avg(D/Q/ A) Attai nment Level(CO5)	Avg(D/Q/A) Attainment Level(CO6)
		Q1	Att level	Q2	Att level	Q3	Att Level	Q4	Att Level			
1	17T51T0001	0	0	6	2	9	3	10	3	25	2.00	3.00
2	17T51T0002	10	3	10	3	0	0	9	3	29	3.00	3.00
3	17T51T0003	7	2	7	2	0	0	7	2	21	2.00	2.00
4	17T51T0004	4	0	4	1	0	0	0	0	8	0.50	0.00
5	17T51T0005	0	0	0	0	0	0	0	0	0	0.00	0.00
6	17T51T0006	9	3	9	3	0	0	8	3	26	3.00	3.00
7	17T51T0007	0	0	10	3	9	3	9	3	28	3.00	3.00
8	17T51T0008	5	1	0	0	0	0	0	0	5	1.00	0.00
9	17T51T0009	7	2	8	3	9	3	0	0	24	2.50	3.00
10	17T51T0010	8	3	7	2	0	0	6	2	21	2.50	2.00
11	17T51T0011	0	0	0	0	0	0	0	0	0	0.00	0.00
12	17T51T0013	10	3	10	3	0	0	0	0	20	3.00	0.00
13	17T51T0014	0	0	7	2	7	2	8	3	22	2.00	2.50
14	17T51T0015	9	3	5	1	0	0	0	0	14	2.00	0.00
15	17T51T0016	10	3	10	3	0	0	0	0	25	3.00	1.00
16	17T51T0017	2	0	0	0	0	0	0	0	2	0.00	0.00
17	17T51T0018	9	3	9	3	0	0	9	3	27	3.00	3.00



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18	17T51T0019	10	3	9	3	7	2	0	0	26	3.00	2.00
19	17T51T0020	7	2	9	3	9	3	0	0	25	2.50	3.00
20	17T51T0021	9	3	9	3	9	3	0	0	27	3.00	3.00
21	17T51T0022	10	3	7	2	0	0	5	1	22	2.50	1.00
22	17T51T0023	7	2	7	2	0	0	9	3	23	2.00	3.00
23	17T51T0024	0	0	0	0	0	0	0	0	0	0.00	0.00
24	17T51T0025	4	0	4	1	0	0	0	0	8	0.50	0.00
25	17T51T0026	8	3	0	0	0	0	0	0	8	3.00	0.00
26	16T51T0003	6	2	9	3	0	0	9	3	24	2.50	3.00
27	20T51T0101	0	0	0	0	0	0	0	0	0	0.00	0.00

Attainment Level Summary	CO5	CO6	
Maximum Attainment Level	3	3	
Cut-off Attainment Level(60%)	1.8	1.8	
No.of Student >=Cut-off	19	14	
% of students >=cut-off	70	52	
Level Attained	3	1	
Level of Attained			
% of students	<60	60-79	>=80
Level	1	2	3

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Faculty



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Cherukupally(Village), Near Thagarapavalasa Bridge, Vizianagaram (Dist)-531162

ESTD : 2005


Regulation : PCI , Subject : Pharmacoepidemiology and Pharmacoeconomics Year : V

Faculty: Mr. B Manoj, Department of Pharmacy Practice

SL.NO	REGD.NO	Grade	Att. Level
1	17T51T0001	45	2
2	17T51T0002	47	2
3	17T51T0003	52	2
4	17T51T0004	53	3
5	17T51T0005	48	2
6	17T51T0006	44	2
7	17T51T0007	48	2
8	17T51T0008	52	2
9	17T51T0009	52	2
10	17T51T0010	51	2
11	17T51T0011	47	2
12	17T51T0013	47	2
13	17T51T0014	52	2
14	17T51T0015	48	2
15	17T51T0016	37	1
16	17T51T0017	39	1
17	17T51T0018	39	1
18	17T51T0019	46	2
19	17T51T0020	50	2
20	17T51T0021	48	2
21	17T51T0022	40	1
22	17T51T0023	49	2
23	17T51T0024	43	2
24	17T51T0025	53	3
25	17T51T0026	50	2
26	16T51T0003	0	0
27	20T51T0101	48	2

Attainment Level Summary	CO1 to CO6
Maximum Attainment Level	3
Cut-off Attainment Level(1.8-Passed)	22




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No. of Student ≥ Cut-off	22	
% of students ≥ cut-off	81	
Level Attained	3	
Level of Attained		
% of students	<50	50-79
Level	1	2

B. Hanu
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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

Cherukupally(Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist)-531162

Regulation:PCI(R08) , Subject:Pharmacoepidemiology and Pharmacoeconomics Year : V

Faculty: Mr. B Manoj, Department of Pharmacy Practice

Particulars	Overall Attainment					
	CO1	CO2	CO3	CO4	CO5	CO6
Internal Attainment Level (INT)	3	3	3	3	3	1
External Attainment Level (EXT)	3	3	3	3	3	3
TOTAL = INT * 0.25 + EXT * 0.75	3	3	3.00	3	3	2.5
Target Level is 2.2(75%)						
Action taken: Suggestions for further Improvement by Course Teacher						
Continuous Quality Improvement for COs:						
Target =2.2						
Observation: All COs are marginally attained.						
To strengthen CO6: Students to be made practice more analysis questions for achieving higher levels of target.						

B. Manoj
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Regulation:PCI(R08) , Subject:Pharmacoepidemiology and Pharmacoeconomics Year : V

Faculty: Mr. B Manoj, Department of Pharmacy Practice

The Mapping of CO and PO on 3 point scale{high-3,Medium-2,Low-1} is:

	CO Attainment Level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO502.1	3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.2	3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.3	3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.4	3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.5	3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO502.6	2.5	1	3	1	1	1	-	2	1	-	1	1	1	1
PO/PSO Weightage		5	15	5	5	5	0	10	5	0	5	5	5	5
PO/PSO Co-relation weightage all Cos(1-5)		14.5	43.5	14.5	14.5	14.5	0	29	14.5	0	14.5	14.5	14.5	14.5
PO/PSO Attainment Level		2.90	2.90	2.90	2.90	2.90	-	2.90	2.90	-	2.90	2.90	2.90	2.90

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Cherukupally(Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist)-531162
Regulation : PCI (R08), Subject : Clinical Pharmacy (Practical) Year : IV
Faculty: Mr. V Randeep, Department of Pharmacy Practice

Course Outcomes

CO409.1	Analyze drug information queries.
CO409.2	Conduct patient medication counseling and suggest necessary precautions.
CO409.3	Perform case studies related to lab reports.
CO409.4	Conduct interview with patients regarding premedication history.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO409.1	1	3	1	1	1	-	2	1	-	1	1	1	1
CO409.2	1	3	1	1	1	-	2	1	-	1	1	1	1
CO409.3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO409.4	1	3	1	1	1	-	2	1	-	1	1	1	1
	1	3	1	1	1	-	2	1	-	1	1	1	1


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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

Cherukupally(Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist)-531162

Dept of Pharm D, Regulation : PCI (R08), Subject : Clinical Pharmacy Lab Year :- IV


Faculty: Mr. V Randeep, Department of Pharmacy Practice

Calculation standards of attainment For Lab

	<i>1:Low (40%)</i>	<i>2:Medium (60%)</i>	<i>3: High (75%)</i>
Lab Internal (30 M)	12	18	22.5
Lab External (Grade-10)	28	42	52.5


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Dept of Pharm D, Regulation : PCI (R08), Subject : Clinical Pharmacy Lab Year :- IV

Calculation standards of attainment				Faculty: Mr. V Randeep, Department of Pharmacy Practice											
	1:Low (40%)	2:Medium (60%)	3: High (75%)												
Lab Internal (15 M)	12	18	22.5												
Lab External (Grade-10)	28	42	52.5												
S.NO	REGD.NO	Lab Internal - I (Max : 40M)	Lab Internal - I (Reduced to 20M)	Continuous Mode (10 M)	Total Lab Internal - I (30 M)	Att. Level	Lab Internal - II (Max:40 M)	Lab Internal - II (Reduced to 20M)	Continuous Mode (10 M)	Total Lab Internal - II (Max:30 M)	Att. Level	Average Lab Internal (Max: 30M)	Att. Level	Lab External (Max: Marks - 70)	Att. Level
1	17T51T0001	30	15	10	25	3	32	16	10	26	3	26	3	61	3
2	17T51T0002	32	16	9	25	3	36	18	10	28	3	27	3	60	3
3	17T51T0003	29	15	10	25	3	38	19	9	28	3	27	3	60	3
4	17T51T0004	32	16	10	26	3	36	18	10	28	3	27	3	62	3
5	17T51T0005	30	15	10	25	3	35	18	10	28	3	27	3	60	3
6	17T51T0006	29	15	10	25	3	36	18	10	28	3	27	3	61	3
7	17T51T0007	32	16	9	25	3	38	19	9	28	3	27	3	62	3
8	17T51T0008	34	17	9	26	3	37	18	9	28	3	27	3	62	3
9	17T51T0009	31	16	9	25	3	36	18	10	28	3	27	3	60	3
10	17T51T0010	30	15	10	25	3	34	18	9	26	3	27	3	60	3



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11	17T51T0011	32	16	9	25	3	36	18	10	28	3	27	3	61	3
12	17T51T0013	29	15	10	25	3	36	18	10	28	3	27	3	59	3
13	17T51T0014	30	15	10	25	3	34	17	9	26	3	26	3	60	3
14	17T51T0015	30	15	10	25	3	32	16	10	26	3	26	3	62	3
15	17T51T0016	29	15	10	25	3	34	17	9	26	3	26	3	59	3
16	17T51T0017	28	14	10	24	3	36	18	10	28	3	26	3	60	3
17	17T51T0018	29	15	10	25	3	35	18	10	28	3	27	3	62	3
18	17T51T0019	30	15	9	24	3	34	17	9	26	3	25	3	60	3
19	17T51T0020	32	16	9	25	3	28	14	10	26	3	26	3	59	3
20	17T51T0021	25	13	10	23	3	36	18	10	28	3	26	3	59	3
21	17T51T0022	24	12	9	21	2	33	17	9	26	3	24	3	52	2
22	17T51T0023	32	16	9	25	3	34	17	9	26	3	26	3	60	3
23	17T51T0024	26	13	10	23	3	32	16	10	26	3	25	3	59	3
24	17T51T0025	30	15	10	25	3	33	17	9	26	3	26	3	60	3
25	17T51T0026	29	15	10	25	3	36	18	10	28	3	27	3	60	3
26	16T51T0003	28	14	9	23	3	32	16	10	26	3	25	3	59	3
27	20T51T0101	26	13	9	22	2	29	15	10	25	3	24	3	60	3

Attainment Level Summary	Internal	External
Maximum Attainment Level	3	3
Cut-off Attainment Level (60%Internal,80%)	1.8	2.4
No.of Student >=Cut-off	27	26
% of students >=cut-off	100	96
Level Attained	3	3

Level of Attained-Internal			
% of students	<60	60-79	>=80
Level	1	2	3

Level of Attained-External			
% of students	<60	60-79	>=80
Level	1	2	3




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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

Cherukupally, Near Thagarapuvalasa Bridge, Vizianagaram (Dist)-531162

Dept of Pharm D, Regulation : PCI (R08), Subject : Clinical Pharmacy Lab Year :- IV

Faculty: Mr. V Randeep, Department of Pharmacy Practice

Particulars	Overall Attainment
Internal Attainment Level (INT)	3
External Attainment Level (EXT)	3
TOTAL = INT * 0.4 + EXT * 0.6	3
Target level is 2.2	
Target level is attained	

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

Cherukupally(Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist)-531162

Dept of Pharm D, Regulation : PCI , Subject : Clinical Pharmacy Lab Year :- IV

Faculty: Mr. V Randeep, Department of Pharmacy Practice

The Mapping of CO and PO on 3 point scale{high-3,Medium-2,Low-1} is:

	CO Attainment Level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PS02	PSO3
CO409.1	3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO409.2	3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO409.3	3	1	3	1	1	1	-	2	1	-	1	1	1	1
CO409.4	3	1	3	1	1	1	-	2	1	-	1	1	1	1
PO/PSO Weightage		4	12	4	4	4	0	8	4	0	4	4	4	4
PO/PSO Co-relation weightage all Cos(1-6)		12	36	12	12	12	0	24	12	0	12	12	12	12
PO/PSO Attainment Level		3.00	3.00	3.00	3.00	3.00	-	3.00	3.00	-	3.00	3.00	3.00	3.00


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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Cherukupally (Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist) - 531162
Regulation : PCI (R08) Subject : Project Work Year : V

Faculty: Mr. V Uma Sankhar, Associate Professor

Course Outcomes

CO505.1	Define the fundamentals, carry out the literature review on the proposed research work and identify the problem.
CO505.2	Develop the research hypothesis.
CO505.3	Summarise the requirements in the proposed research.
CO505.4	Take part in research experiments and documented.
CO505.5	Evaluate the work done by applying statistic tools.
CO505.6	Appraise societal application and appreciation.

CO-PO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2
CO813.1	3	2	2	-	-	2	3	-	1	1	2	2	-
CO813.2	3	2	3	-	-	1	-	-	-	1	2	2	-
CO813.3	3	2	2	3	-	1	-	-	3	1	2	2	-
CO813.4	3	2	2	3	-	1	-	-	3	1	2	2	-
CO813.5	3	2	2	3	-	1	-	-	3	1	2	2	-
CO813.6	3	2	2	3	-	1	-	-	3	1	2	2	-
	3	2	2.2	3	-	1.2	3	-	2.5	1	2	2	-

V. Uma Sankhar
Faculty



V. Uma Sankhar
Principal

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Regulation : PCI (R08) Subject :Project Year : V

The Mapping of CO and PO on 3 point scale {high-3,Medium-2,Low-1} is:

CO Attainment Level	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	
CO505.1	3	3	2	2	-	-	2	3	-	1	1	2	2	1
CO505.2	3	3	2	3	-	-	1	-	-	-	1	2	2	1
CO505.3	3	3	2	2	3	-	1	-	-	3	1	2	2	1
CO505.4	3	3	2	2	3	-	1	-	-	3	1	2	2	1
CO505.5	3	3	2	2	3	-	1	-	-	3	1	2	2	1
CO505.6	3	3	2	2	3	-	1	-	-	3	1	2	2	1
PO/PSO Weightage	18	12	13	12	0	7	3	0	13	6	-12	12	6	
PO/PSO Co-relation weightage all Cos(1-5)	54	36	39	36	0	21	9	0	39	18	36	36	18	
PO/PSO Attainment Level	3.00	3.00	3.00	3.00	-	3.00	3.00	-	3.00	3.00	3.00	3.00	3.00	

V. Anurag Sankar
Faculty



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Regulation : PCI(R08), Subject : Project Work Year : V

Faculty: Mr. V Uma Sankhar, Associate Professor

S NO	Roll NO	Grade	Att. Level
1	17T51T0001	93	3
2	17T51T0002	93	3
3	17T51T0003	95	3
4	17T51T0004	96	3
5	17T51T0005	95	3
6	17T51T0006	94	3
7	17T51T0007	97	3
8	17T51T0008	97	3
9	17T51T0009	96	3
10	17T51T0010	94	3
11	17T51T0011	97	3
12	17T51T0013	95	3
13	17T51T0014	97	3
14	17T51T0015	95	3
15	17T51T0016	93	3
16	17T51T0017	96	3
17	17T51T0018	97	3
18	17T51T0019	96	3
19	17T51T0020	94	3
20	17T51T0021	93	3
21	17T51T0022	94	3
22	17T51T0023	95	3
23	17T51T0024	93	3
24	17T51T0025	94	3
25	17T51T0026	94	3
26	16T51T0003	95	3
27	20T51T0001	93	3

Attainment Level Summary	CO1 to CO6
Maximum Attainment Level	3
Cut-off Attainment Level(1.8-Passed)	27



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No.of Student >=Cut-off	27	
% of students >=cut-off	27	
Level Attained	3	
Level of Attained		
% of students	<50	50-79
Level	1	2

V. Mungamkar
Faculty

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