



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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2.6.2. CO-PO Attainment for B Pharmacy Program

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CO-PO Attainment Process

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 Educational Outcomes (PEOs) for B Pharmacy

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 demonstrate technical skills in medicine compounding and dispensing, offering drug information services to enhance the health care team's drug therapy.

PEO 2: Interdisciplinary Collaboration: Graduates will be able to inculcate leadership and management skills through effective communications, expertise in problem solving related to drugs, formulations and continuous professional development.

PEO 3: Liasion: Graduates will be able to train in synchronization with the requirements of pharmaceutical industry and encouraged to participate in seminars, conferences, workshops group discussions, quizzes, and health care programs.

PEO 4: Preventive Medicine: Graduates will be qualified to take part in national health development initiatives and serve the community with the highest standards of professional ethics.

Program Outcomes for (POs) B Pharmacy

Program outcomes are statements that describe what the knowledge, skills and attitudes students should have at the time of graduation from B Pharmacy program. That means just at the end of 4 years these represent what is the knowledge, skills and attitudes they should have.

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

PO 2: Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.

PO 3: Problem Analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.

PO 4: Modern Usage Tool: Learn, select, and apply appropriate methods and procedures, resources and modern pharmacy-related computing tools with an understanding of the limitations.

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,

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

PO 7: Pharmaceutical Ethics: Honor personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.

PO 8: Communication: Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.

PO 9: The Pharmacist and the Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.

PO 10: Environment and Sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, demonstrate the knowledge and need for sustainable development.

PO 11: Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

Program Specific Outcomes (PSOs) for B Pharmacy

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

PSO 1: Scientific Analytical Thinking: Able to implement technical skills in extraction, purification, analysis, formulation, marketing of drugs and medicines.

PSO 2: Entrepreneurship: Able to develop entrepreneurial and administrative abilities to open community pharmacies, educational institutions, and training facilities for the long-term benefit of society.




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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 PO's 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 B Pharmacy program, 8 semesters are designed according to PCI and University curriculum. For each semester, B Pharm HOD consolidates the COs of the respective semester and maintains the documentation of the CO-PO/PSO mapping.

CO-PO/PSO mapping for B pharmacy subjects of PCI (R14) regulation

Year & Semester	Number of Theory subjects	Number of Practical Subjects	Other Subjects
I - I	7	6	-
I - II	6	4	-
II - I	4	4	-
II - II	5	4	-
III - I	5	3	-
III - II	6	3	-
IV - I	4	1	-
IV - II	4	0	Project Work
Total	41	25	01

CO statements and CO-PO/PSO mapping for each B pharmacy subject is listed below:

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Department of B Pharmacy, Regulation : PCI			
Year : I	Sem : I	Course Name: Human Anatomy and Physiology - I	Code : BP101T
Course Outcomes			
CO101.1	Recognize the various homeostatic mechanisms, cellular level organization and summarize the characteristics of different types of tissues and their location in various organs.		
CO101.2	Organize the structure and functions of skin, bones and joints of human body.		
CO101.3	Analyze the importance of haemopoietic system in human body.		
CO101.4	Understand the importance of lymphatic system in human body.		
CO101.5	Relate the physiology of sympathetic, parasympathetic, spinal/cranial nerves and organization of special senses.		
CO101.6	Illustrate the anatomy, physiology and coordinated pathway of heart and blood vessels.		

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 B Pharmacy, Regulation : PCI			
Year : I	Sem : I	Course Name : Pharmaceutical Analysis- I	Code : BP102T
Course Outcomes			
CO102.1	Understand the physiochemical concepts of analysis and gain knowledge of sources of errors and minimizing techniques.		
CO102.2	Analyze the techniques of acid-base titrations and non-aqueous titrations		
CO102.3	Employ volumetric titrations in quality control of pharmaceuticals.		
CO102.4	Analyze the techniques of gravimetry in quality control of pharmaceuticals.		
CO102.5	Analyze the techniques of redox titrations and develop analytical skills.		
CO102.6	Analyze various electro chemical titrations and interpret the results.		

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	3	-	1	-	-	-	-	2	2	-
CO101.3	3	-	2	3	-	1	-	-	3	-	2	2	-
CO101.4	3	-	2	3	-	1	-	-	3	-	2	2	-
CO101.5	3	-	3	3	-	1	-	-	3	-	2	2	-
CO101.6	3	-	3	3	-	1	-	-	3	-	2	2	-
	3	-	2.20	3	-	1	-	-	2.50	-	2	2	-



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Department of B Pharmacy, Regulation : PCI			
Year : I	Sem : I	Course Name : Pharmaceutics – I	Code : BP103T
Course Outcomes			
CO103.1	Know the history of profession of pharmacy. Understand the basics of different dosage forms and importance of prescription and posology.		
CO103.2	Solve the pharmaceutical calculations and summarize the basics of compounding and dispensing of powders.		
CO103.3	Summarize the basics of compounding and dispensing of liquid dosage forms.		
CO103.4	Summarize the basics of dispensing and compounding of biphasic liquid dosage forms.		
CO103.5	Know the preparation of suppositories and understand various pharmaceutical incompatibilities.		
CO103.6	Understand the preparation of various semisolid dosage forms and their evaluations.		

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 B Pharmacy, Regulation : PCI			
Year : I	Sem : I	Course Name : Pharmaceutical Inorganic Chemistry	Code : BP104T
Course Outcomes			
CO104.1	Understand the history of pharmacopoeia, sources and types of impurities and describe the official methods of control like limit tests.		
CO104.2	Acquires knowledge on acids, bases, buffers, buffered isotonic solutions, methods of adjusting isotonicity and major extra and intra cellular electrolytes and know the monographs of dental products.		
CO104.3	Classify the gastrointestinal agents and described the methods of preparation, properties, storage, assay and uses with marketed formulations of inorganic compounds in gastrointestinal agents.		
CO104.4	Analyze the importance of Cathartics and anti-microbials in treatment of gastric diseases or disorders.		
CO104.5	Classify the miscellaneous compounds and know the monographs of inorganic compounds in each category.		
CO104.6	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
CO104.1	2	-	2	-	-	2	-	-	1	-	-	-	1
CO104.2	2	-	3	-	-	1	-	-	-	-	2	-	1
CO104.3	2	-	2	3	-	1	-	-	-	-	2	1	1
CO104.4	2	-	2	3	-	1	-	-	-	-	2	-	1
CO104.5	2	-	2	3	-	1	-	-	-	-	2	-	1
CO104.6	2	-	2	3	-	1	-	-	-	-	2	-	1
	2	-	2.20	3	-	1.20	-	-	1	-	2	1	1



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Department of B Pharmacy, Regulation : PCI	
Year : I	Sem : I
Course Name : Communication Skills	
Code : BP105T	
Course Outcomes	
CO105.1	Understand and apply knowledge of human communication and language processes as they occur across various contexts, e.g., interpersonal, intrapersonal, small group, organizational, media, gender, family, intercultural communication, technologically mediated communication.
CO105.2	Find, use, and evaluate primary academic writing associated with the communication discipline.
CO105.3	Develop knowledge, skills, and job-ready skills in pharmaceutical industry that facilitate their ability to work collaboratively with others.
CO105.4	Develop effective writing skills for the purpose of running organization.
CO105.5	Enhance communication competencies such as managing conflict, understanding small group processes, active listening, appropriate self-disclosure, and other work place norms.
CO105.6	Learn interview skills.

CO - PO Mapping

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



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Department of B Pharmacy, Regulation: PCI	
Year : I	Sem : I Course Name : Remedial Biology Code: BP106RBT
Course Outcomes	
CO106.1	Know the anatomical principles followed by scientists for classification of five kingdom animals and its salient features.
CO106.2	Getting knowledge on different parts of plants and its morphological and anatomical characters and its importance.
CO106.3	Know the basic components of human anatomy & physiology of prescribed systems.
CO106.4	Understand the Chemical coordination and regulation of endocrine glands and hormones.
CO106.5	Know the basic components in plant anatomy & physiology and summarize photosynthesis in plants.
CO106.6	Know the basic structural and functional organization of living organism.

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO106.1	-	-	-	-	-	-	-	-	1	-	2	-	-
CO106.2	-	-	2	-	-	-	-	-	-	-	2	2	-
CO106.3	2	-	2	-	-	-	-	-	-	-	2	2	-
CO106.4	2	-	2	-	-	-	-	-	-	-	2	2	-
CO106.5	2	-	2	-	-	-	-	-	-	-	2	2	-
CO106.6	2	-	2	-	-	-	-	-	-	-	2	2	-
	2	-	2	-	-	-	-	-	1	-	2	2	-



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Department of B Pharmacy, Regulation : PCI	
Year : I	Sem : I
Course Name : Remedial Mathematics	
Code : BP106RMT	
Course Outcomes	
CO106.1	Know Basic mathematical operations
CO106.2	Know trigonometry mostly used in any sciences.
CO106.3	Know Basic calculus which is used in analytical study of their life sciences applications
CO106.4	Know the basic trigonometric functions from first principles.
CO106.5	Draw lines, finding the equations for the purpose of relational study
CO106.6	Know Some advanced calculations in Research or Project works

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	-
CO106a.6	2	-	3	-	-	-	-	-	-	-	2	2	-
	2	-	3	-	-	-	-	-	1	-	2	2	-



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Department of B Pharmacy, Regulation : PCI	
Year : I	Sem : I
Course Name : Human Anatomy and Physiology - I Practical	
Code : BP107P	
Course Outcomes	
CO107.1	Recall handling of compound microscope and to outline the microscopic characteristics of various tissues.
CO107.2	Summarize the characteristics of different bones (skeletal system) & types of joints.
CO107.3	Estimate the various hematological parameters such as WBC, RBC count, Hb, ESR, bleeding, clotting time and their own blood group.
CO107.4	Determine various physical parameters such as heart rate, BP.

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 B Pharmacy, Regulation : PCI			
Year : I	Sem : I	Course Name : Pharmaceutical Analysis – I Practical	Code : BP108P
Course Outcomes			
CO108.1	Understand the principles of identification of impurity in given sample by performing limit tests.		
CO108.2	Able to prepare and standardize solutions of different concentrations.		
CO108.3	Determine percentage purity of [pharmaceutical drugs by various volumetric analytical titrations.		
CO108.4	Determine normality of pharmaceutical drugs by electro analytical methods.		

CO - PO Mapping

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



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Department of B Pharmacy, Regulation : PCI			
Year : I	Sem : I	Course Name : Pharmaceutics - I Practical	Code : BP109P
Course Outcomes			
CO109.1	Able to formulate skills of preparing syrups, elixirs, Linctus and solutions.		
CO109.2	Gain knowledge on preparation of biphasic liquid dosage forms.		
CO109.3	Able to prepare various solid dosage forms using different techniques and equipment's.		
CO109.4	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
CO109.1	-	-	3	-	-	-	-	-	3	3	2	-	1
CO109.2	-	-	3	-	-	-	-	-	3	3	2	-	-
CO109.3	2	-	3	-	-	-	-	-	2	3	2	-	-
CO109.4	2	-	3	-	-	-	-	-	3	3	2	2	-
	2	-	3	-	-	-	-	-	3	3	2	2	1



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Department of B Pharmacy, Regulation : PCI			
Year : I	Sem : I	Course Name : Pharmaceutical Inorganic Chemistry - I Practical	Code : BP110P
Course Outcomes			
CO110.1	Know the source of impurities and perform the limit tests for qualitative analysis of impurities for given sample.		
CO110.2	Perform the identification test for the pharmaceutical compounds.		
CO110.3	Identify the test for purity of compounds.		
CO110.4	Able to prepare inorganic pharmaceuticals.		

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO110.1	2	-	2	-	-	2	-	-	1	-	-	-	1
CO110.2	2	-	3	-	-	1	-	-	-	-	2	-	1
CO110.3	2	-	2	3	-	1	-	-	-	-	2	1	1
CO110.4	2	-	2	3	-	1	-	-	-	-	2	-	1
	2	-	2.25	3	-	1.25	-	-	1	-	2	1	1



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Department of B Pharmacy, Regulation : PCI			
Year : I	Sem : I	Course Name : Communication Skills Practical	Code : BP111P
Course Outcomes			
CO111.1	Learn and understand basic communication skills needed for effective for working of pharmacist in areas of pharmaceutical operations.		
CO111.2	Effective in verbal and nonverbal pronunciation.		
CO111.3	Develop communication skills effectively to manage team as team lead & handling the interview.		
CO111.4	Presenting the advanced learning skills effectively with aid of learning.		

CO - PO Mapping

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



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Department of B Pharmacy, Regulation : PCI	
Year : I	Sem : I
Course Name : Remedial Biology Practical	
Code : BP112P	
Course Outcomes	
CO111.1	Understand the usage and handling of microscope and study the microscopic investigation of cell and its inclusions.
CO111.2	Identify microscopic and morphological characteristics of stem, root, fruit and flowers.
CO111.3	Identify bones and study frog by using computing models.
CO111.4	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
CO111.1	-	-	-	-	-	-	-	-	1	-	2	-	-
CO111.2	-	-	2	-	-	-	-	-	-	-	2	2	-
CO111.3	2	-	2	-	-	-	-	-	-	-	2	2	-
CO111.4	2	-	2	-	-	-	-	-	-	-	2	2	-
	2	-	2	-	-	-	-	-	1	-	2	2	-




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Department of B Pharmacy, Regulation : PCI	
Year : I	Sem : II Course Name : Human Anatomy and Physiology - II Code : BP201T
Course Outcomes	
CO201.1	Relate the physiology of Central nervous system with the functioning of neurons.
CO201.2	Analyze the importance of digestive system in human body. Outline the bioenergetics involved in metabolism of food.
CO201.3	Outline the importance of Respiratory system in human body.
CO201.4	Understand the importance of Urinary system in human body.
CO201.5	Analyze the importance of endocrine system in body.
CO201.6	Illustrate the anatomy, physiology and coordinated pathway of Reproductive system. Understand basic concepts of genetics.

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 B Pharmacy, Regulation : PCI			
Year : I	Sem : II	Course Name : Pharmaceutical Organic Chemistry - I	Code : BP202T
Course Outcomes			
CO202.1	Capable to give nomenclature and identify isomerism of organic compounds.		
CO202.2	Remember the preparation methods and properties of alkanes, alkenes and conjugated dienes.		
CO202.3	Remember the preparation methods and properties of alkyl halides and alcohols.		
CO202.4	Remember the preparation methods and properties of Alcohols.		
CO202.5	Remember the preparation methods and properties of Carbonyl compounds.		
CO202.6	Remember the preparation methods and properties of Carboxylic acids.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO202.1	2	-	2	-	-	2	-	-	1	-	-	2	-
CO202.2	2	-	3	-	-	1	-	-	-	-	2	2	-
CO202.3	2	-	2	3	-	1	-	-	-	-	2	2	-
CO202.4	2	-	2	3	-	1	-	-	-	-	2	2	-
CO202.5	2	-	2	3	-	1	-	-	-	-	2	2	-
CO202.6	2	-	2	3	-	1	-	-	-	-	2	2	-
	2	-	2.16	3	-	1.16	-	-	1	-	2	2	-



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Department of B Pharmacy, Regulation : PCI	
Year : I	Sem : II Course Name : Biochemistry (Theory) Code : BP203T
Course Outcomes	
CO203.1	Remember the classification, properties, significance and metabolic reactions of carbohydrates, lipids, nucleic acids, proteins and amino acids.
CO203.2	Understand the metabolism of carbohydrates and process of electron transport and ATP formation. Appraise the causes, manifestations and diagnosis of metabolic disorders.
CO203.3	Remember the metabolism of Lipids and aminoacids.
CO203.4	Understand the causes, manifestations and diagnosis of metabolic disorders.
CO203.5	Understand the metabolism of Nucleic acid and distinguish the process of DNA replication, transcription and translation.
CO203.6	Apply the concept of catalytic activity and enzyme inhibition in design of new drugs, diagnostic and therapeutic applications of enzymes.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO203.1	2	-	2	-	-	2	3	-	1	-	-	2	-
CO203.2	3	-	3	-	-	1	-	-	-	-	-	2	-
CO203.3	3	-	2	3	-	1	-	-	3	-	-	2	-
CO203.4	3	-	2	3	-	1	-	-	3	-	-	2	-
CO203.5	3	-	2	3	-	1	-	-	3	-	-	2	-
CO203.6	3	-	2	3	-	1	-	-	3	-	-	2	-
	3	-	2.20	3	-	1.20	3	-	2.50	-	-	2	-



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Department of B Pharmacy, Regulation : PCI	
Year : I	Sem : II
Course Name: Pathophysiology	
Code : BP204T	
Course Outcomes	
CO204.1	Understand the process of cell injury, morphology of cell injury and cellular adaptations.
CO204.2	Describe the etiology and pathogenesis of CVS, respiratory and renal systems diseases or disorders.
CO204.3	Explain the etiopathogenesis of hematologic, endocrine, nervous, gastrointestinal, musculoskeletal diseases and Immunopathogenesis of infectious diseases.
CO204.4	Explain the etiopathogenesis of gastrointestinal, musculoskeletal diseases and Immunopathogenesis of infectious diseases.
CO204.5	Understand the principles of physical, chemical and biologic carcinogenesis.
CO204.6	Describe the etiology and pathogenesis of infectious diseases.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO204.1	3	-	2	-	-	-	-	-	1	-	2	2	-
CO204.2	3	-	2	-	-	-	-	-	-	-	2	2	-
CO204.3	3	-	2	-	-	-	-	-	3	-	2	2	-
CO204.4	3	-	2	-	-	-	-	-	3	-	2	2	-
CO204.5	3	-	3	-	-	-	-	-	3	-	2	2	-
CO204.6	3	-	3	-	-	-	-	-	3	-	2	2	-
	3	-	2.20	-	-	-	-	-	2.50	-	2	2	-



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Department of B Pharmacy, Regulation : PCI			
Year : I	Sem : II	Course Name: Computer applications in pharmacy (Theory)	Code : BP205T
Course Outcomes			
CO205.1	Illustrate the concept of number system in computers and understand different types of databases, applications of computers and databases in pharmacy.		
CO205.2	Employ web technologies such as HTML, XML, CSS, programming languages, Web servers and pharmacy drug database in pharmaceutical field.		
CO205.3	Appraise the applications of computers in pharmacy such as drug information services, pharmacokinetics in drug design.		
CO205.4	Understand and apply the uses of computers in hospital and clinical pharmacy.		
CO205.5	Understand the importance of bioinformatics and its impact in vaccine discovery.		
CO205.6	Elaborate the applications of computers for data analysis in preclinical development.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO205.1	3	-	2	-	-	-	-	-	1	-	2	2	-
CO205.2	3	-	2	-	-	-	-	-	-	-	2	2	-
CO205.3	3	-	2	-	-	-	-	-	3	-	2	2	-
CO205.4	3	-	2	-	-	-	-	-	3	-	2	2	-
CO205.5	3	-	3	-	-	-	-	-	3	-	2	2	-
CO205.6	3	-	3	-	-	-	-	-	3	-	2	2	-
	3	-	2.20	-	-	-	-	-	2.50	-	2	2	-



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Department of B Pharmacy, Regulation: PCI			
Year: I	Sem: I	Course Name: Human anatomy and physiology – II (Practical)	Code: BP207P
Course Outcomes			
CO207.1	Recall the physiology of special senses with the help of models, charts and specimens.		
CO207.2	Develop the knowledge on coordinating working of organs of various systems with the help of models, charts and specimens.		
CO207.3	Analyze the functions of cranial nerves by various sensory and motor functions. Evaluate body temperature and body mass index.		
CO207.4	Determine tidal volume and vital capacity Assess the knowledge on family planning devices, pregnancy diagnostic tests, tissues of vital organs and gonads.		

CO - PO Mapping

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



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Department of B Pharmacy, Regulation: PCI			
Year: I	Sem: I	Course Name: Pharmaceutical Organic Chemistry – I (Practical)	Code: BP208P
Course Outcomes			
CO208.1	Analyze unknown pharmaceutical organic compounds by determining their melting point/boiling point.		
CO208.2	Prepare and characterize the derivatives of organic compounds.		
CO208.3	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.		
CO208.4	Able to construct molecular models.		

CO - PO Mapping

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



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Department of B Pharmacy, Regulation: PCI			
Year: I	Sem: I	Course Name: Biochemistry (Practical)	Code: BP209P
Course Outcomes			
CO209.1	Remember the qualitative analysis of carbohydrates and proteins.		
CO209.2	Understand the principle and clinical significance of blood glucose. Identify the amount of reducing sugars by DNSA method		
CO209.3	Determine the effect of temperature and substrate concentration on salivary amylase activity.		
CO209.4	Examine the constituents present in Urine and their clinical significance.		

CO - PO Mapping

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



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Department of B Pharmacy, Regulation: PCI			
Year: I	Sem: I	Course Name: Computer applications in pharmacy (Practical)	Code: BP210P
Course Outcomes			
CO210.1	Demonstrate and make use of MS Office, MS Word, MS Excel, MS Access and MS Power point.		
CO210.2	Understand the paradigms of program languages and be exposed to at least one language from each model, C and SQL.		
CO210.3	Summarize the report and printing the report from patient database. Design a questionnaire using a word processing package to gather information about a particular disease.		
CO210.4	Create HTML web page to show personal information.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO210.1	3	-	2	-	-	-	-	-	3	-	2	2	-
CO210.2	3	-	2	-	-	-	-	-	-	-	2	2	-
CO210.3	3	-	2	-	-	-	-	-	3	-	2	2	-
CO210.4	3	-	2	-	-	-	-	-	3	-	2	2	-
	3	-	2	-	-	-	-	-	3	-	2	2	-



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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : I	Course Name : Pharmaceutical organic chemistry – II (Theory)	Code: BP301T
Course Outcomes			
CO301.1	Understand About Aromaticity, Chemistry and Reactions Of Benzene And Its Derivatives.		
CO301.2	Understand the Chemistry and Reactions Of phenols, aromatic amines and acids		
CO301.3	Understand the basic concepts of fats and oils.		
CO301.4	Understand the concept of hydrolysis, hydrogenation, saponification and rancidity of fatty acids & oils.		
CO301.5	Categorize the drugs acting on Endocrine system based on their mechanism of action, understand their SAR, synthesis and clinical uses.		
CO301.6	Categorize the anti-diabetics and Local anesthetics 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
CO301.1	2	-	2	-	-	2	-	-	-	-	-	-	1
CO301.2	2	-	3	-	-	1	-	-	-	-	2	-	1
CO301.3	2	-	2	3	-	1	-	-	-	-	2	1	1
CO301.4	2	-	2	3	-	1	-	-	-	-	2	-	1
CO301.5	2	-	2	3	-	1	-	-	-	-	2	-	1
CO301.6	2	-	2	3	-	1	-	-	-	-	2	-	1
	2	-	2.20	3	-	1.20	-	-	-	-	2	1	1



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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : I	Course Name : Physical Pharmaceutics – I (Theory)	Code : BP302T
Course Outcomes			
CO302.1	Understand the effect of solubility in designing dosage forms.		
CO302.2	Identify the properties of states of matter. Understand the various physiochemical properties of drug molecules to design dosage forms.		
CO302.3	Understand the principle of interfacial tension and the applications of surface-active agents in drug solubilization.		
CO302.4	Understand the concepts of Interfacial Phenomenon.		
CO302.5	Perceive and apply the concepts of complexation and protein binding in pharmacy.		
CO302.6	Gain knowledge of pH and buffers and their use in the stabilization of pharmaceutical formulations.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO302.1	3	-	2	2	-	-	-	-	-	1	1	1	1
CO302.2	3	-	2	2	-	-	-	-	-	1	1	2	1
CO302.3	3	-	2	2	-	-	-	-	-	1	1	2	1
CO302.4	3	-	2	2	-	-	-	-	-	1	1	2	1
CO302.5	3	-	2	2	-	-	-	-	-	1	1	2	1
CO302.6	3	-	2	2	-	-	-	-	-	1	1	1	1
	3	-	2	2	-	-	-	-	-	1	1	2	1.66



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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : I	Course Name : Pharmaceutical Microbiology (Theory)	Code : BP303T
Course Outcomes			
CO303.1	Remember the scope of microbiology and its branches, methods of classification. Understand the structure, morphology of bacteria.		
CO303.2	Gain the knowledge on various staining techniques. Understand the importance and implementation of sterilization in pharmaceutical processing and industry.		
CO303.3	Understand the structure, morphology of fungi and virus.		
CO303.4	Understand the importance and implementation of disinfectants in pharmaceutical industry.		
CO303.5	Remember the tests used for the microbiological standardization of pharmaceuticals.		
CO303.6	Remember the preservation of pharmaceutical products. Choose the cell culture technology and microbial characters for the pharmaceutical industry.		

CO-PO Mapping

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



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Department of B Pharmacy, Regulation : PCI	
Year : II	Sem : I
Course Name : Pharmaceutical Engineering (Theory) Code : BP304T	
Course Outcomes	
CO304.1	Understand the concepts of flow of fluids, size reduction and size separation used for manufacturing of pharmaceutical products.
CO304.2	Summarize different mechanisms of heat transfer. Compare and contrast different types of evaporation and distillation process.
CO304.3	Understand the theory and principle involved in operation of drying equipments.
CO304.4	Summarize the theory and principle of mixing equipments.
CO304.5	Understand the theory, principle and determine the factors influencing mixing, filtration and centrifugation.
CO304.6	Elaborate various preventive methods used for corrosion control in pharmaceutical industries.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO304.1	2	-	2	-	-	2	3	-	1	-	-	2	-
CO304.2	3	-	3	-	-	1	-	-	-	-	-	2	-
CO304.3	3	-	2	3	-	1	-	-	3	-	-	2	-
CO304.4	3	-	2	3	-	1	-	-	3	-	-	2	-
CO304.5	3	-	2	3	-	1	-	-	3	-	-	2	-
CO304.6	3	-	2	3	-	1	-	-	3	-	-	2	-
	3	-	2.20	3	-	1.20	3	-	2.50	-	-	2	-



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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : I	Course Name : Pharmaceutical organic chemistry – II (Practical)	Code : BP305P
Course Outcomes			
CO305.1	Gain the knowledge on different recrystallization and steam distillation techniques.		
CO305.2	Identify the purity of fats and oils by acid value, saponification value and iodine value of fatty acids and oils.		
CO305.3	Perform various reaction like diazotization, oxidation reactions.		
CO305.4	Test the knowledge on different electrophilic aromatic substitutions reactions like bromination, nitration in monosubstituted aromatic compounds.		

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO305.1	2	-	2	-	-	2	-	-	-	-	-	-	1
CO305.2	2	-	2	-	-	1	-	-	-	-	2	-	1
CO305.3	2	-	2	3	-	1	-	-	-	-	2	1	1
CO305.4	2	-	2	3	-	1	-	-	-	-	2	-	1
	2	-	2	3	-	1.25	-	-	-	-	2	1	1



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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : I	Course Name : Physical Pharmacy - I (Practical)	Code : BP306P
Course Outcomes			
CO306.1	Understand the significance of physical properties such as solubility, surface tension, partition coefficient and pKa in the design of dosage forms.		
CO306.2	Determine the surface tension of sample liquids by drop count and drop weight methods.		
CO306.3	Estimate the HLB value and critical micellar concentration of surfactants. Explain adsorption isotherms and determine Freundlich-Langmuir constant using activated charcoal.		
CO306.4	Estimate the stability constants of complexes by solubility and pH titration methods.		

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO306.1	2	-	2	-	-	2	-	-	-	-	-	-	1
CO306.2	2	-	2	-	-	1	-	-	-	-	2	-	1
CO306.3	2	-	2	3	-	1	-	-	-	-	2	-	1
CO306.4	2	-	2	3	-	1	-	-	-	-	2	-	1
	2	-	2	3	-	1.25	-	-	-	-	2	-	1




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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : I	Course Name : Pharmaceutical Microbiology (Practical)	Code : BP307P
Course Outcomes			
CO307.1	Recall different techniques of sterilization. Interpret the results of microbial testing		
CO307.2	Demonstrate various staining methods – simple, gram staining and acid fast staining.		
CO307.3	Test for possible microbial contaminants. Estimate the microbiological assay of antibiotics.		
CO307.4	Estimate the motility in the given sample. To Choose the correct method to evaluate the microbes to be tested.		

CO - PO Mapping

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



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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : I	Course Name : Pharmaceutical Engineering (Practical)	Code : BP308P
Course Outcomes			
CO308.1	Determine overall heat transfer coefficient by heat exchanger and calculate the efficiency of steam distillation.		
CO308.2	Demonstrate various staining methods – simple, gram staining and acid fast staining.		
CO308.3	Demonstrate and explain about the construction, working and applications of pharmaceutical equipments such as colloid mill, planetary mixer, fluidized bed dryer and freeze dryer.		
CO308.4	Estimate the process variables of filtration, evaporation and infer the same.		

CO - PO Mapping

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




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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : II	Course Name : Pharmaceutical organic chemistry - III (Theory)	Code : BP401T
Course Outcomes			
CO401.1	Discuss optical isomerism-optical activity, enantiomers, diastereoisomerism and meso compounds.		
CO401.2	Understand the fundamentals of geometric and conformational stereo chemical aspects.		
CO401.3	Understand the nomenclature, properties and methods of preparation of heterocyclic compounds.		
CO401.4	Identify preparation, properties, medicinal uses and other applications of five membered heterocyclic compounds.		
CO401.5	Identify preparation, properties, medicinal uses and other applications of six membered and fused heterocyclic compounds.		
CO401.6	Elaborate the reactions, understand their mechanisms and synthetic importance of organic naming reactions.		

CO-PO Mapping

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





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Department of B Pharmacy, Regulation : PCI

Year : II Sem : II Course Name : Medicinal Chemistry – I (Theory) Code : BP402T

Course Outcomes

CO402.1	Understand the physicochemical properties, steric aspects of drugs and their metabolic pathways in relation to biological action
CO402.2	Categorize the drugs acting on Autonomous nervous system based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO402.3	Categorize the drugs acting on Parasympathetic nervous system based on their mechanism of action, understand their SAR and clinical uses.
CO402.4	Identify medicinal uses and other applications of drugs acting on Parasympathetic nervous system.
CO402.5	Categorize the drugs acting on Central nervous system based on their mechanism of action, understand their SAR and clinical uses.
CO402.6	Categorize the general anesthetics, Narcotic analgesics based on their mechanism of action, understand their and clinical uses.

CO-PO Mapping

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



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Department of B Pharmacy, Regulation : PCI	
Year : II	Sem : II
Course Name : Physical Pharmaceutics – II (Theory) Code : BP403T	
Course Outcomes	
CO403.1	Demonstrate the suitable physical properties that contribute in designing a stable colloidal dispersion and understand the applications of colloidal dispersions.
CO403.2	Gain knowledge about different rheological or thixotropic behavior of different pharmaceutical dosage forms & deformation of solids and to demonstrate, modify & predict the designing of different pharmaceutical dosage forms.
CO403.3	Formulate and evaluate Emulsions making use of rheological and electrical properties for effective clinical management.
CO403.4	Formulate and evaluate Suspensions making use of rheological and electrical properties for effective clinical management.
CO403.5	Categorize the drugs acting on Central nervous system based on their mechanism of action, understand their SAR and clinical uses.
CO403.6	Categorize the general anesthetics, Narcotic analgesics based on their mechanism of action, understand their and clinical uses.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO403.1	3	-	2	2	-	-	-	-	-	1	1	1	1
CO403.2	3	-	2	2	-	-	-	-	-	1	1	2	1
CO403.3	3	-	2	2	-	-	-	-	-	1	1	2	1
CO403.4	3	-	2	2	-	-	-	-	-	1	1	2	1
CO403.5	3	-	2	2	-	-	-	-	-	1	1	2	1
CO403.6	3	-	2	2	-	-	-	-	-	1	1	1	1
	3	-	2	2	-	-	-	-	-	1	1	2	1.66



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Department of B Pharmacy, Regulation : PCI

Year : II Sem : II Course Name : Pharmacology – I (Theory) Code : BP404T

Course Outcomes

CO404.1	Define the fundamental concepts of pharmacology and pharmacokinetics of drugs.
CO404.2	Understand the basic concepts of pharmacodynamics of drugs, adverse drug reactions and drug discovery.
CO404.3	Describe organization, function, and neurohumoral transmission of peripheral nervous system.
CO404.4	Employ the knowledge to study the pharmacological actions of drugs acting on peripheral nervous system.
CO404.5	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.
CO404.6	Understand the effects of drugs against neurodegenerative disorders and to elaborate the concepts of drug addiction/abuse/tolerance/dependence.

CO-PO Mapping

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



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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : II	Course Name : Pharmacognosy and Phytochemistry - I (Theory)	Code : BP405T
Course Outcomes			
CO405.1	Recall the history, scope and development of pharmacognosy and remember different sources, classification and quality control of crude drugs.		
CO405.2	Illustrate about cultivation, collection, processing and storage of crude drugs. Understand the factors affecting the production of crude drugs along with its hybridization.		
CO405.3	Elaborate the applications of advanced technologies of plant tissue culture.		
CO405.4	Employ the knowledge to study the usage of edible vaccines.		
CO405.5	Illustrate the basic plant metabolites and the various metabolic pathways to form secondary metabolites.		
CO405.6	Understand systematic pharmacognostic study of primary metabolites, ayurvedic drugs, marine drugs and teratogens.		

CO-PO Mapping

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



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Department of B Pharmacy, Regulation : PCI	
Year : II	Sem : II Course Name : Medicinal chemistry - I (Practical) Code : BP406P
Course Outcomes	
CO406.1	Synthesize, characterize and purify various medicinal compounds and intermediates.
CO406.2	Analyze the selected drugs present in dosage forms and to determine the assay by using various analytical techniques.
CO406.3	Prepare drugs and determine melting point or boiling point for prepared drugs.
CO406.4	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
CO406.1	2	-	3	3	-	-	-	-	-	-	-	1	1
CO406.2	2	-	3	3	-	-	-	-	-	-	-	1	1
CO406.3	2	-	3	3	-	-	-	-	-	-	-	1	1
CO406.4	2	-	3	3	-	-	-	-	-	-	-	1	1
	2	-	3	3	-	-	-	-	-	-	-	1	1



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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : II	Course Name : Physical Pharmaceutics - I (Practical)	Code : BP407P
Course Outcomes			
CO407.1	Determine the flow properties of powders and interpret the characteristics of powders.		
CO407.2	Asses the rheology of fluids by using viscometers. Evaluate the stability of coarse dispersions.		
CO407.3	Distinguish the rate constants as per the chemical reaction.		
CO407.4	Interpret the shelf life of a given formulation by accelerated stability studies.		

CO-PO Mapping

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



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Department of B Pharmacy, Regulation : PCI	
Year : II	Sem : II Course Name : Pharmacology - I (Practical) Code : BP408P
Course Outcomes	
CO408.1	Learn about basic instruments, common laboratory animals used in experimental pharmacology and to organize animal house as per the CPCSEA guidelines. Demonstrate the common laboratory techniques like routes of administration, blood withdrawal, anesthetics and euthanasia used for animal studies.
CO408.2	Interpret the effects of various drugs on rabbit eye and ciliary motility of frog esophagus in correlation with humans.
CO408.3	Analyse the effect of drugs acting as enzyme inducers, skeletal muscle relaxants and affecting locomotor activity in laboratory animals.
CO408.4	Predict various screening models for anticonvulsant and anxiolytic activity.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO408.1	2	-	1	3	-	-	-	-	-	-	-	2	1
CO408.2	2	-	1	3	-	-	-	-	-	-	-	1	1
CO408.3	2	-	2	3	-	-	-	-	-	-	-	2	1
CO408.4	2	-	2	3	-	-	-	-	-	-	-	1	1
	2	-	1.5	3	-	-	-	-	-	-	-	1.5	1



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Department of B Pharmacy, Regulation : PCI			
Year : II	Sem : II	Course Name : Pharmacognosy and Phytochemistry - I (Practical)	Code : BP409P
Course Outcomes			
CO409.1	Remember different morphological and microscopical characteristic features of crude drugs.		
CO409.2	Analyze crude drugs as per regulatory guidelines.		
CO409.3	Evaluate the crude drugs by quantitative evaluation methods.		
CO409.4	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
CO409.1	2	-	3	3	-	-	-	-	-	-	-	1	1
CO409.2	2	-	3	3	-	-	-	-	-	-	-	1	1
CO409.3	2	-	3	3	-	-	-	-	-	-	-	1	1
CO409.4	2	-	3	3	-	-	-	-	-	-	-	1	1
	2	-	3	3	-	-	-	-	-	-	-	1	1



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Department of B Pharmacy, Regulation : PCI	
Year : III	Sem : I
Course Name: Medical Chemistry-II (Theory) Code: BP501T	
Course Outcomes	
CO501.1	Categorize drugs acting on GIT based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO501.2	Categorize the anti-anginal and anti-hypertensive drugs based on their mechanism of action; understand their SAR, synthesis and clinical uses.
CO501.3	Categorize the drugs acting on Cardiovascular system based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO501.4	Categorize the drugs acting on heart based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO501.5	Categorize the drugs acting on Endocrine system based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO501.6	Categorize the anti-diabetics and Local anesthetics 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
CO501.1	3	-	2	-	-	-	-	-	1	-	2	2	-
CO501.2	3	-	2	-	-	-	-	-	-	-	2	2	-
CO501.3	3	-	2	-	-	-	-	-	3	-	2	2	-
CO501.4	3	-	2	-	-	-	-	-	3	-	2	2	-
CO501.5	3	-	3	-	-	-	-	-	3	-	2	2	-
CO501.6	3	-	3	-	-	-	-	-	3	-	2	2	-
	3	-	2.20	-	-	-	-	-	2.50	-	2	2	-



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Department of B Pharmacy, Regulation : PCI			
Year : III	Sem : I	Course Name : Industrial Pharmacy-I (Theory)	Code : BP502T
Course Outcomes			
CO502.1	Know the importance of preformulation studies, excipients in the development and stability of dosage forms.		
CO502.2	Understand the manufacturing techniques, formulation and evaluation methods of Tablets and Liquid oral preparations.		
CO502.3	Understand the manufacturing techniques, formulation and evaluation methods of Capsules.		
CO502.4	Understand the manufacturing techniques, formulation and evaluation methods of Pellets.		
CO502.5	Gain the knowledge on manufacturing techniques, formulation and evaluation methods of Parenteral and Ophthalmic preparations.		
CO502.6	Summarize formulation, manufacturing and evaluation of cosmetic preparations, pharmaceutical aerosols and appraise the science of packaging materials.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO502.1	3	-	2	2	-	-	-	-	1	1	1	1	1
CO502.2	3	-	2	2	-	-	-	-	1	1	1	2	1
CO502.3	3	-	2	2	-	-	-	-	1	1	1	2	1
CO502.4	3	-	2	2	-	-	-	-	1	1	1	2	1
CO502.5	3	-	2	2	-	-	-	-	1	1	1	2	1
CO502.6	3	-	2	2	-	-	-	-	1	1	1	1	1
	3	-	2	2	-	-	-	-	1	1	1	1.66	1



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Department of B Pharmacy, Regulation : PCI			
Year : III	Sem : I	Course Name : Pharmacology-II (Theory)	Code : BP503T
Course Outcomes			
CO503.1	Describe organization, function, of cardiovascular system and employ the knowledge to study the pharmacological actions of drugs acting on cardiovascular system.		
CO503.2	Describe organization, function, of urinary system and employ the knowledge to study the pharmacological actions of drugs acting on urinary system.		
CO503.3	Gain the knowledge on pharmacology of autocooids and related drugs.		
CO503.4	Summarize the pharmacology of NSAIDS, anti-gout agents and anti-rheumatic agents.		
CO503.5	Describe organization, function, of endocrine system and employ the knowledge to study the pharmacological actions of drugs acting on endocrine system.		
CO503.6	Predict principles of bioassay and to construct the bioassay methods of various compounds.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO503.1	3	-	2	2	-	-	-	-	1	1	1	1	1
CO503.2	3	-	2	2	-	-	-	-	1	1	1	2	1
CO503.3	3	-	2	2	-	-	-	-	1	1	1	2	1
CO503.4	3	-	2	2	-	-	-	-	1	1	1	2	1
CO503.5	3	-	2	2	-	-	-	-	1	1	1	2	1
CO503.6	3	-	2	2	-	-	-	-	1	1	1	1	1
	3	-	2	2	-	-	-	-	1	1	1	1.66	1



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Department of B Pharmacy, Regulation : PCI			
Year : III	Sem : I	Course Name : Pharmacognosy and Phytochemistry-II (Theory)	Code : BP504T
Course Outcomes			
CO504.1	Outline the metabolic pathway in higher plants and their biogenetic studies.		
CO504.2	Summarize the pharmacognostic study of secondary metabolites like alkaloids, glycosides, tannins, volatile oils.		
CO504.3	Demonstrate the different types and steps involved in isolation, identification and analysis of Phytoconstituents like terpenoids and glycosides.		
CO504.4	Summarize the pharmacognostic study of alkaloids and resins.		
CO504.5	Understand the industrial production, estimation and utilization of Phytoconstituents.		
CO504.6	Assess the crude drug by modern methods of extraction, spectroscopy, chromatography, isolation and purification.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO504.1	2	-	-	2	-	-	-	-	-	-	1	2	1
CO504.2	2	-	-	2	-	-	-	-	-	-	1	2	-
CO504.3	2	-	-	2	-	-	-	-	-	-	1	2	-
CO504.4	2	-	-	2	-	-	-	-	-	-	1	2	-
CO504.5	2	-	-	2	-	-	-	-	-	-	1	2	1
CO504.6	2	-	-	2	-	-	-	-	-	-	1	2	1
	2	-	-	2	-	-	-	-	-	-	1	2	1




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Department of B Pharmacy, Regulation : PCI

Year : III Sem : I Course Name : Pharmaceutical Jurisprudence (Theory) Code : BP505T

Course Outcomes

CO505.1	Understand about objectives of the Drug and Cosmetics Act.
CO505.2	Gain knowledge about the sale of drugs, labeling of drugs.
CO505.3	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.
CO505.4	Understand the constitution and functions of narcotic & Psychotropic consultative committee and to remember the objectives of, offences and penalties.
CO505.5	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 drug price control order on bulk drugs and the sale price.
CO505.6	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
CO505.1	2	-	1	-	-	2	1	-	3	1	-	1	2
CO505.2	2	-	1	-	-	2	1	-	3	1	-	1	2
CO505.3	2	-	1	-	-	2	1	-	2	1	-	1	2
CO505.4	2	-	1	-	-	2	1	-	2	1	-	1	2
CO505.5	2	-	1	-	-	2	1	-	2	1	-	1	2
CO505.6	2	-	1	-	-	2	1	-	3	1	-	1	2
	2	-	1	-	-	2	1	-	3	1	-	1	2



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Department of B Pharmacy, Regulation : PCI			
Year : III	Sem : I	Course Name : Industrial Pharmacy-I (Practical)	Code : BP506P
Course Outcomes			
CO506.1	Assess the preformulation studies of drugs and interpret the characteristics of drugs.		
CO506.2	Gain the knowledge on formulation and evaluation of tablets, capsules, containers.		
CO506.3	Gain the knowledge on formulation and evaluation of injections and ophthalmics.		
CO506.4	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
CO506.1	2	-	3	3	-	-	-	-	-	-	-	1	1
CO506.2	2	-	3	3	-	-	-	-	-	-	-	1	1
CO506.3	2	-	3	3	-	-	-	-	-	-	-	1	1
CO506.4	2	-	3	3	-	-	-	-	-	-	-	1	1
	2	-	3	3	-	-	-	-	-	-	-	1	1



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Department of B Pharmacy, Regulation : PCI	
Year : III	Sem : I
Course Name : Pharmacology-II (Practical)	
Code : BP507P	
Course Outcomes	
CO507.1	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.
CO507.2	Identify the dose response relationship, effect of drugs on DRC and to construct the drug concentrations by various bioassay methods using animal simulator software.
CO507.3	Categorize the PA2 and PD2 value of drugs using rat anococcygeus muscle and guinea pig ileum.
CO507.4	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
CO507.1	2	-	3	2	-	-	-	-	-	-	-	1	1
CO507.2	2	-	3	2	-	-	-	-	-	-	-	1	1
CO507.3	2	-	3	2	-	-	-	-	-	-	-	1	1
CO507.4	2	-	3	2	-	-	-	-	-	-	-	1	1
	2	-	3	2	-	-	-	-	-	-	-	1	1



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Department of B Pharmacy, Regulation : PCI	
Year : III Sem : I Course Name : Pharmacognosy and Phytochemistry-II (Practical) Code: BP508P	
Course Outcomes	
CO508.1	Remember the wide variety of the crude drugs and their sources by morphological and microscopic characteristics.
CO508.2	Exercise the isolation and detective principles of crude drugs,
CO508.3	Predict the crude drug by performing chromatographic techniques.
CO508.4	Analyze crude drugs by chemical tests.

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO508.1	2	-	3	3	-	-	-	-	-	-	-	1	1
CO508.2	2	-	3	3	-	-	-	-	-	-	-	1	1
CO508.3	2	-	3	3	-	-	-	-	-	-	-	1	1
CO508.4	2	-	3	3	-	-	-	-	-	-	-	1	1
	2	-	3	3	-	-	-	-	-	-	-	1	1



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Department of B Pharmacy, Regulation : PCI

Year : III Sem : II Course Name : Medical Chemistry-III (Theory) Code: BP601T

Course Outcomes

CO601.1	Categorize the antibiotics based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO601.2	Categorize the antimalarials based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO601.3	Categorize the anti tubercular and anti infective drugs based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO601.4	Categorize the anti viral drugs based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO601.5	Categorize the drugs used to treat infectious diseases based on their mechanism of action, understand their SAR, synthesis and clinical uses.
CO601.6	Apply modern techniques like Quantitative Structure Activity Relationship (QSAR), Prodrug concept, Combinatorial Chemistry and Computer Aided Drug Design (CADD) in rational drug design.

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO601.1	3	-	2	2	-	-	-	-	1	1	-	2	1
CO601.2	3	-	2	2	-	-	-	-	1	1	-	2	1
CO601.3	3	-	2	2	-	-	-	-	1	1	-	2	1
CO601.4	3	-	2	2	-	-	-	-	1	1	-	2	1
CO601.5	3	-	2	2	-	-	-	-	1	1	-	2	1
CO601.6	3	-	3	2	-	-	-	-	1	1	-	2	1
	3	-	2.16	2	-	-	-	-	1	1	-	2	1



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Department of B Pharmacy, Regulation : PCI			
Year : III	Sem : II	Course Name : Pharmacology-III (Theory)	Code: BP602T
Course Outcomes			
CO602.1	Describe organization, function, of Respiratory and Gastro-intestinal systems and employ the knowledge to study the pharmacological actions of drugs acting on Respiratory and Gastro-intestinal systems.		
CO602.2	Understand the principles of chemotherapy and illustrate the mechanism of action of antibiotics.		
CO602.3	Analyze the chemotherapy of UTI's, STD's and to categorize the immunopharmacology.		
CO602.4	Summarize the chemotherapy of anti-cancer drugs.		
CO602.5	Assess the various types of toxicity studies, principles of treatment of poisoning and management of various poisoned conditions.		
CO602.6	Understand the principles of toxicology and treatment of metal poisoning. Compile the biological clock and its significance leading to chronotherapy.		

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO602.1	3	-	2	2	-	-	-	-	1	1	1	1	1
CO602.2	3	-	2	2	-	-	-	-	1	1	1	2	1
CO602.3	3	-	2	2	-	-	-	-	1	1	1	2	1
CO602.4	3	-	2	2	-	-	-	-	1	1	1	2	1
CO602.5	3	-	2	2	-	-	-	-	1	1	1	2	1
CO602.6	3	-	2	2	-	-	-	-	1	1	1	1	1
	3	-	2	2	-	-	-	-	1	1	1	2	1



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Department of B Pharmacy, Regulation : PCI	
Year : III	Sem : II Course Name : Herbal Drug Technology (Theory) Code: BP603T
Course Outcomes	
CO603.1	Recall the fundamental concepts of herbal raw materials and biodynamic agriculture techniques
CO603.2	Understand the concept of formulation and evaluation of nutraceuticals and herbal drug and herbal food interactions.
CO603.3	Acquire the knowledge on formulation and evaluation of herbal cosmetics.
CO603.4	Acquire the knowledge on herbal formulations.
CO603.5	Remember the regulatory guidelines for the assessment of herbal drugs and patenting.
CO603.6	Establish and follow the SOP's, infrastructure of industries as per GMP.

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO603.1	2	-	2	2	-	-	-	-	-	-	-	2	2
CO603.2	2	-	2	2	-	-	-	-	-	-	-	2	2
CO603.3	2	-	2	2	-	-	-	-	-	-	-	2	2
CO603.4	2	-	2	2	-	-	-	-	-	-	-	2	2
CO603.5	2	-	2	2	-	-	-	-	-	-	-	2	2
CO603.6	2	-	2	2	-	-	-	-	-	-	-	2	2
	2	-	2	2	-	-	-	-	-	-	-	2	2



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Department of B Pharmacy, Regulation : PCI	
Year : III	Sem : II
Course Name : Biopharmaceutics and Pharmacokinetics (Theory)	
Code: BP604T	
Course Outcomes	
CO604.1	Understand basic concepts of absorption, distribution of drugs in body.
CO604.2	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.
CO604.3	Utilize the pharmacokinetic models for the determination of pharmacokinetic parameters.
CO604.4	Understand the application of pharmacokinetic models in design of dosage form.
CO604.5	Able to design multiple dosage regimens based on pharmacokinetic parameters for maximizing patient compliance and therapeutic effectiveness.
CO604.6	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
CO604.1	2	-	2	1	-	-	-	-	-	-	-	2	2
CO604.2	2	-	2	1	-	-	-	-	-	-	-	2	2
CO604.3	1	-	2	2	-	-	-	-	-	-	-	2	2
CO604.4	1	-	2	2	-	-	-	-	-	-	-	2	2
CO604.5	2	-	2	2	-	-	-	-	-	-	-	2	2
CO604.6	2	-	2	1	-	-	-	-	-	-	-	2	2
	1.66	-	2	1.5	-	-	-	-	-	-	-	2	2



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Department of B Pharmacy, Regulation : PCI	
Year : III	Sem : II
Course Name : Pharmaceutical Biotechnology (Theory) Code: BP605T	
Course Outcomes	
CO605.1	Remember the basic concepts of biotechnology with respect to enzyme technology, immunology, microbial technology, genetic engineering and protein engineering.
CO605.2	Understand the steps involved in development of biosensors, recombinant products and concepts of immunology. Outline the production parameters important in pharmaceutical product development using principles of biotechnology.
CO605.3	Elaborate on microbial genetics, biotransformation of products.
CO605.4	Understand the various immunological products and its manufacturing process.
CO605.5	Assess the genetic organization of different types of cells and to list detection methods at genomic level, gene transfer methods and mutagens.
CO605.6	Assess the general requirements of fermentative production and biotechnological production of pharmaceuticals.

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO605.1	3	-	2	2	-	-	-	-	-	-	-	2	2
CO605.2	3	-	2	2	-	-	-	-	-	-	-	2	2
CO605.3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO605.4	3	-	2	2	-	-	-	-	-	-	-	2	2
CO605.5	3	-	2	2	-	-	-	-	-	-	-	2	2
CO605.6	3	-	2	2	-	-	-	-	-	-	-	2	2
	3	-	2	2	-	-	-	-	-	-	-	2	2



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Department of B Pharmacy, Regulation : PCI	
Year : III	Sem : II Course Name : Pharmaceutical Quality Assurance (Theory) Code: BP606T
Course Outcomes	
CO606.1	Summarize the different levels of pharmaceutical quality development and quality assurance such as cGMP, QC tests, literature and regulatory issues.
CO606.2	Gain knowledge on cGMP perspectives and QA and QC departments roles.
CO606.3	Understand guidelines related to ICH, Q-series, SOP and Testing protocols.
CO606.4	Able to differentiate, and demonstrate the value of personnel responsibilities, training, hygiene and maintenance of stores.
CO606.5	Outline the concept of demands and approval, return handling, recall and waste management, request and assessment. Followed by concepts of master formula record, SOP, quality audit, quality review and recording of quality, distribution reports and articles as well as its application.
CO606.6	Understand calibration principles, certification and validation concepts, validation significance and scale, forms of validation, master plan for validation.

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO606.1	2	-	1	-	-	2	1	-	3	1	-	1	-
CO606.2	2	-	1	-	-	2	1	-	3	1	-	1	-
CO606.3	2	-	1	-	-	2	1	-	2	1	-	1	-
CO606.4	2	-	1	-	-	2	1	-	2	1	-	1	-
CO606.5	2	-	1	-	-	2	1	-	2	1	-	1	-
CO606.6	2	-	1	-	-	2	1	-	3	1	-	1	-
	2	-	1	-	-	2	1	-	3	1	-	1	-



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Department of B Pharmacy, Regulation : PCI			
Year : III	Sem : II	Course Name : Medicinal Chemistry - III (Practical)	Code: BP607P
Course Outcomes			
CO607.1	Synthesize, characterize and purify various medicinal compounds and intermediates.		
CO607.2	Analyze the selected drugs present in dosage forms and to determine the assay by using various analytical techniques.		
CO607.3	Compare the advantages of microwave technique over conventional synthesis of drugs.		
CO607.4	Able to drawing chemical structures and reactions by using software. Predict the relation between physicochemical properties and biological activity.		

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO607.1	2	-	3	3	-	-	-	-	-	-	-	1	1
CO607.2	2	-	3	3	-	-	-	-	-	-	-	1	1
CO607.3	2	-	3	3	-	-	-	-	-	-	-	1	1
CO607.4	2	-	3	3	-	-	-	-	-	-	-	1	1
	2	-	3	3	-	-	-	-	-	-	-	1	1




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Department of B Pharmacy, Regulation : PCI			
Year : III	Sem : II	Course Name : Pharmacology - III (Practical)	Code: BP608P
Course Outcomes			
CO608.1	Recall the dose calculations in pharmacological experiments, and to relate the antiallergic activity / anti-ulcer activity in rat models.		
CO608.2	Demonstrate of effect of drugs on gastrointestinal motility and the effect of agonist/antagonists on guinea pig ileum. Construct serum biochemical parameters by using semi auto analyzer.		
CO608.3	Analyze effect of saline purgative on frog intestine, insulin hypoglycemic effect and test for pyrogens using rabbit method.		
CO608.4	Predict the pharmacokinetic parameters and adapt the biostatistics methods in experimental pharmacology. Evaluate acute oral toxicity (LD50), acute skin irritation / corrosion and acute eye irritation / corrosion of a test substance C608.6 Predict the pharmacokinetic parameters and adapt the biostatistics methods in experimental pharmacology.		

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO608.1	2	-	3	3	-	-	-	-	-	-	-	1	1
CO608.2	2	-	3	3	-	-	-	-	-	-	-	1	1
CO608.3	2	-	2	1	-	-	-	-	-	-	-	1	1
CO608.4	2	-	2	1	-	-	-	-	-	-	-	1	1
	2	-	2.5	2	-	-	-	-	-	-	-	1	1



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Department of B Pharmacy, Regulation : PCI			
Year : III	Sem : II	Course Name : Herbal Drug Technology (Practical)	Code: BP609P
Course Outcomes			
CO609.1	Remember different preliminary phytochemical screening of crude drugs.		
CO609.2	Able to formulate and evaluate herbal cosmetics.		
CO609.3	Apply monographic analysis of herbal drugs as per pharmacopoeias.		
CO609.4	Assess the evaluation parameters such as aldehyde and phenol content and total alkaloid content.		

CO - PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO609.1	2	-	2	3	-	-	-	-	-	-	-	1	2
CO609.2	2	-	2	3	-	-	-	-	-	-	-	1	2
CO609.3	2	-	2	1	-	-	-	-	-	-	-	1	2
CO609.4	2	-	2	1	-	-	-	-	-	-	-	1	2
	2	-	2	2	-	-	-	-	-	-	-	1	2



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Department of B Pharmacy, Regulation : PCI			
Year : IV	Sem : I	Course Name : Instrumental Methods of Analysis - II (Theory)	Code : BP701T
Course Outcomes			
CO701.1	Understand principle, operation and applications of UV visible spectrophotometer and fluorimetry.		
CO701.2	Gain maximum knowledge on characterization and estimation of molecules, ions by spectroscopical techniques.		
CO701.3	Elaborate various principles, theory and instruments employed for the characterization and analysis of drugs by using chromatographic techniques.		
CO701.4	Undersatand the principle, operation and applications of chromatographic techniques.		
CO701.5	Create protocol for analysis of pharmaceutical substances by spectroscopic and chromatographic techniques.		
CO701.6	Interpret chromatographic separation & analysis of drugs.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO701.1	3	-	3	-	-	-	-	-	1	-	-	2	1
CO701.2	3	-	2	3	-	1	-	-	-	-	-	2	1
CO701.3	3	-	2	3	-	1	-	-	1	-	-	2	1
CO701.4	3	-	2	3	-	1	-	-	1	-	-	2	1
CO701.5	3	-	2	3	-	1	-	-	2	-	-	2	1
CO701.6	3	-	3	-	-	-	-	-	1	-	-	2	1
	3	-	2.33	3	-	1	-	-	1	-	-	2	1



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Department of B Pharmacy, Regulation : PCI	
Year : IV	Sem : I Course Name : Industrial Pharmacy – II (Theory) Code : BP702T
Course Outcomes	
CO702.1	Gain maximum knowledge on pilot plant scale up techniques and SUPAC guidelines.
CO702.2	Outline various aspects of technology transfer involved from R & D to production departments.
CO702.3	Understand the importance of regulatory affairs for drug approval.
CO702.4	Know the process of drug approval guidelines in india.
CO702.5	Remember the quality management system protocols for quality of products delivery.
CO702.6	Able to process the regulatory requirements for drug approval process in india.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO702.1	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.2	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.4	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.5	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.6	3	-	2	2	-	-	-	-	-	-	-	2	2
	3	-	2	2	-	-	-	-	-	-	-	2	2



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Department of B Pharmacy, Regulation : PCI	
Year : IV Sem : I Course Name : Pharmacy Practice (Theory) Code : BP703T	
Course Outcomes	
CO703.1	Acquire knowledge on organization of hospitals, various methods of distribution and hospital formulary in hospitals and apply it in the practice of pharmacy.
CO703.2	Demonstrate the knowledge of therapeutic drug monitoring, patient medication history interview and to apply the knowledge on assessment of drug related problems.
CO703.3	Evaluate the role of hospital pharmacist in pharmacy and therapeutic committee, drug information services in hospitals.
CO703.4	Remember the role of patient counseling, education and training programs in hospitals.
CO703.5	Understand the professional responsibilities of the clinical pharmacist.
CO703.6	Explain the principles of drug store management and inventory control methods during practice. Interpret clinical laboratory tests of specific disease states to provide better patient centered service.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO703.1	3	-	2	2	-	-	-	-	-	-	-	2	2
CO703.2	3	-	2	2	-	-	-	-	-	-	-	2	2
CO703.3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO703.4	3	-	2	2	-	-	-	-	-	-	-	2	2
CO703.5	3	-	2	2	-	-	-	-	-	-	-	2	2
CO703.6	3	-	2	2	-	-	-	-	-	-	-	2	2
	3	-	2	2	-	-	-	-	-	-	-	2	2



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Department of B Pharmacy, Regulation : PCI			
Year : IV	Sem : I	Course Name : Novel Drug Delivery Systems (Theory)	Code : BP704T
Course Outcomes			
CO704.1	Understand fundamentals, polymers used in the design of controlled drug delivery systems.		
CO704.2	Outline the concepts of formulation and evaluation of oral, mucosal and implantable drug delivery system.		
CO704.3	Develop and study oral, mucosal, dermal, pulmonary drug delivery systems over conventional dosage forms for prolonged action.		
CO704.4	Understand the mechanism, formulation and evaluation of Nasal drug delivery systems.		
CO704.5	Illustrate the principles and fundamentals of drug targeting in the design of site-specific drug delivery system.		
CO704.6	Study the importance of site-specific drug delivery systems or devices for ocular and intra uterine routes.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO704.1	3	-	2	2	-	-	-	-	-	-	-	2	2
CO704.2	3	-	2	2	-	-	-	-	-	-	-	2	2
CO704.3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO704.4	3	-	2	2	-	-	-	-	-	-	-	2	2
CO704.5	3	-	2	2	-	-	-	-	-	-	-	2	2
CO704.6	3	-	2	2	-	-	-	-	-	-	-	2	2
	3	-	2	2	-	-	-	-	-	-	-	2	2



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Department of B Pharmacy, Regulation : PCI			
Year : IV	Sem : I	Course Name : Instrumental Methods of Analysis - II (Practical)	Code : BP705P
Course Outcomes			
CO705.1	Acquire the knowledge in interpretation of UV, IR, NMR, MS spectra's of simple organic compounds for structure.		
CO705.2	Understand process, interpret the data obtained through experimentation and report the results as per regulatory requirements.		
CO705.3	Acquire the knowledge in operation of HPLC, TLC, column chromatography and paper chromatography.		
CO705.4	Understand the separation and identification of compounds by electrophoresis technique.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO704.1	3	-	2	2	-	-	-	-	-	-	-	2	2
CO704.2	3	-	2	2	-	-	-	-	-	-	-	2	2
CO704.3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO704.4	3	-	2	2	-	-	-	-	-	-	-	2	2
	3	-	2	2	-	-	-	-	-	-	-	2	2




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Department of B Pharmacy, Regulation : PCI	
Year : IV	Sem : II Course Name : Biostatistics and research Methodology (Theory) Code: BP801T
Course Outcomes	
CO801.1	Understand the basic aspects of statistics such as central tendency, dispersion, correlation and regression.
CO801.2	Know the statistical techniques and to apply those to solve the statistical problems
CO801.3	Explain the need of research, research designs and their applications and to explain methodological designs.
CO801.4	Apply the clinical research methods in clinical development of drugs.
CO801.5	Operate statistical tools like M.S. Excel, SPSS, R and MINITAB.
CO801.6	To elaborate design and analysis of experiments and response surface methodology.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO801.1	1	-	3	2	-	-	-	-	-	-	3	-	1
CO801.2	1	-	3	2	-	-	-	-	-	-	3	-	1
CO801.3	1	3	3	2	-	-	-	-	-	-	3	-	1
CO801.4	1	1	3	3	-	-	-	-	-	-	3	-	1
CO801.5	1	1	3	3	-	-	-	-	-	-	3	-	1
CO801.6	1	-	3	2	-	-	-	-	-	-	3	-	1
	1	2	3	2	-	-	-	-	-	-	3	-	1



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Department of B Pharmacy, Regulation : PCI	
Year : IV	Sem : II
Course Name : Social and Preventive Pharmacy (Theory) Code: BP802T	
Course Outcomes	
CO802.1	Recognize the concepts and evaluation of public health.
CO802.2	Relate food to nutrition health, balanced diet, deficiencies and its prevention.
CO802.3	Illustrate sociocultural factors and its relation with health.
CO802.4	Identify avoidable habits for personal hygiene and health.
CO802.5	Explain the principles on the prevention and control of communicable and non-communicable diseases.
CO802.6	Identify National health programs its objectives functioning and outcomes.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO801.1	3	-	2	2	-	-	-	-	-	-	-	2	2
CO801.2	3	-	2	2	-	-	-	-	-	-	-	2	2
CO801.3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO801.4	3	-	2	2	-	-	-	-	-	-	-	2	2
CO801.5	3	-	2	2	-	-	-	-	-	-	-	2	2
CO801.6	3	-	2	2	-	-	-	-	-	-	-	2	2
	3	-	2	2	-	-	-	-	-	-	-	2	2



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Department of B Pharmacy, Regulation : PCI	
Year : IV	Sem : II Course Name : Pharma Marketing Management (Theory) Code: BP803ET
Course Outcomes	
CO803.1	Understand the concept of marketing and able to recognize the aspects related to pharmaceutical market.
CO803.2	Gain knowledge about product decision.
CO803.3	Classify different types of sales promotion.
CO803.4	Know the skills required for sales promotion.
CO803.5	Know different channels of product promotion in market.
CO803.6	Know the principles of drug pricing according to DPCO and NPPA.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO803.1	2	-	1	-	-	2	1	-	3	1	-	1	2
CO803.2	2	-	1	-	-	2	1	-	3	1	-	1	2
CO803.3	2	-	1	-	-	2	1	-	2	1	-	1	2
CO803.4	2	-	1	-	-	2	1	-	2	1	-	1	2
CO803.5	2	-	1	-	-	2	1	-	2	1	-	1	2
CO803.6	2	-	1	-	-	2	1	-	3	1	-	1	2
	2	-	1	-	-	2	1	-	3	1	-	1	2



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Department of B Pharmacy, Regulation : PCI			
Year : IV	Sem : II	Course Name : Pharmaceutical Regulatory Science (Theory)	Code: BP804ET
Course Outcomes			
CO804.1	Recall the concepts of Drug discovery, development process, clinical studies and generic drug product development.		
CO804.2	Understand the basic guidelines of drug regulatory approval process.		
CO804.3	Know the regulatory registration process of Indian drugs in overseas market.		
CO804.4	Understand about technical documents like DMF, CTD, eCTD and ACTD.		
CO804.5	Assimilate the process of clinical trials and pharmacovigilance as well as to understand obligations of GCP in clinical trials.		
CO804.6	Understand the concepts of Regulatory science in pharmaceutical industry as well as to make use of regulatory guidelines.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO804.1	2	-	1	-	-	2	1	-	3	1	-	1	2
CO804.2	2	-	1	-	-	2	1	-	3	1	-	1	2
CO804.3	2	-	1	-	-	2	1	-	2	1	-	1	2
CO804.4	2	-	1	-	-	2	1	-	2	1	-	1	2
CO804.5	2	-	1	-	-	2	1	-	2	1	-	1	2
CO804.6	2	-	1	-	-	2	1	-	3	1	-	1	2
	2	-	1	-	-	2	1	-	3	1	-	1	2



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Department of B Pharmacy, Regulation : PCI	
Year : IV	Sem : II Course Name : Pharmaceutical Regulatory Science (Theory) Code: BP805ET
Course Outcomes	
CO805.1	Recall the history, scope, development and basic terms used in pharmacovigilance.
CO805.2	Able to utilize Drug dictionaries, coding, information resources in Pharmacovigilance programme.
CO805.3	Understand methods of pharmacovigilance and communication process during ADR reporting
CO805.4	Analyze the concepts of ADR reporting by using software.
CO805.5	Appraise safety data generation and ICH guidelines in pharmacovigilance.
CO805.6	Build the ability to report adverse drug reactions through various ADR reporting forms.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO805.1	2	-	1	-	-	2	1	-	3	1	-	1	2
CO805.2	2	-	1	-	-	2	1	-	3	1	-	1	2
CO805.3	2	-	1	-	-	2	1	-	2	1	-	1	2
CO805.4	2	-	1	-	-	2	1	-	2	1	-	1	2
CO805.5	2	-	1	-	-	2	1	-	2	1	-	1	2
CO805.6	2	-	1	-	-	2	1	-	3	1	-	1	2
	2	-	1	-	-	2	1	-	3	1	-	1	2



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Department of B Pharmacy, Regulation : PCI			
Year : IV	Sem : II	Course Name : Quality control and Standardization of Herbal drugs (Theory)	Code: BP806ET
Course Outcomes			
CO806.1	Remember the WHO guidelines for the quality control of herbal drugs.		
CO806.2	Outline the quality assurance in herbal drug industry including CGMP.		
CO806.3	Understand EU guidelines for the quality control, safety and efficacy of herbal drugs.		
CO806.4	Understand ICH guidelines for the quality control, safety and efficacy of herbal drugs.		
CO806.5	Gain the knowledge on stability testing of herbal drugs. Know the procedure for export of drugs and new drug approval.		
CO806.6	Know the regulatory requirements of herbal medicines.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO806.1	3	-	2	2	-	-	-	-	-	1	1	1	1
CO806.2	3	-	2	2	-	-	-	-	-	1	1	2	1
CO806.3	3	-	2	2	-	-	-	-	-	1	1	2	1
CO806.4	3	-	2	2	-	-	-	-	-	1	1	2	1
CO806.5	3	-	2	2	-	-	-	-	-	1	1	2	1
CO806.6	3	-	2	2	-	-	-	-	-	1	1	1	1
	3	-	2	2	-	-	-	-	-	1	1	2	1.66



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Department of B Pharmacy, Regulation : PCI	
Year : IV	Sem : II
Course Name : Computer Aided Drug Design (Theory) Code: BP807ET	
Course Outcomes	
CO807.1	Understand stages in drug discovery and development, lead discovery based on metabolism and clinical observation and also analog based drug design of molecular modeling and virtual screening techniques.
CO807.2	Able to perform QSAR in drug design by using software tools.
CO807.3	Understand the basic concepts of molecular docking.
CO807.4	Apply the molecular docking techniques to examine the binding interactions of ligand with molecular targets.
CO807.5	Explain the applications of bioinformatics, chemo informatics, ADME databases, chemical, biochemical and pharmaceutical databases relevant to drug design
CO807.6	Discuss the conformational analysis of molecules using molecular and quantum mechanics approach and also determine the global conformational minima.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO806.1	3	-	3	2	-	-	-	-	1	1	-	2	1
CO806.2	3	-	3	2	-	-	-	-	1	1	-	2	1
CO806.3	3	-	3	2	-	-	-	-	1	1	-	2	1
CO806.4	3	-	3	2	-	-	-	-	1	1	-	2	1
CO806.5	3	-	3	2	-	-	-	-	1	1	-	2	1
CO806.6	3	-	3	2	-	-	-	-	1	1	-	2	1
	3	-	3	2	-	-	-	-	1	1	-	2	1



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Department of B Pharmacy, Regulation : PCI			
Year : IV	Sem : II	Course Name : Cell and Molecular Biology (Theory)	Code : BP808ET
Course Outcomes			
CO808.1	Summarize the history, functioning and composition of cell and molecular biology.		
CO808.2	Describe the chemical foundations of cell biology. Summarize the DNA properties of cell biology.		
CO808.3	Understand the structure, synthesis and function of proteins.		
CO808.4	Apply the structure of protein in molecular docking studies.		
CO808.5	Describe the cell membrane structure and function.		
CO808.6	Summarize the cell cycle and elaborate how cell communication occur and discuss mechanisms of receptors for cell signaling/signaling pathways/Protein kinase.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO808.1	3	-	3	2	-	-	-	-	1	1	-	2	1
CO808.2	3	-	3	2	-	-	-	-	1	1	-	2	1
CO808.3	3	-	3	2	-	-	-	-	1	1	-	2	1
CO808.4	3	-	3	2	-	-	-	-	1	1	-	2	1
CO808.5	3	-	3	2	-	-	-	-	1	1	-	2	1
CO808.6	3	-	3	2	-	-	-	-	1	1	-	2	1
	3	-	3	2	-	-	-	-	1	1	-	2	1



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Department of B Pharmacy, Regulation : PCI	
Year : IV	Sem : II
Course Name : Cosmetic Science (Theory)	Code: BP809ET
Course Outcomes	
CO809.1	Remember classification and historical evolution of cosmoceuticals, cosmetic excipients. Understand the basic structure of skin, hair and oral cavity.
CO809.2	Understand the principles of formulation and building blocks of various skin care products and hair care products.
CO809.3	Understand the principles of formulation and evaluation of sun screen products.
CO809.4	Understand the principles of formulation and evaluation of herbal products.
CO809.5	Understand the principles of cosmetic evaluation.
CO809.6	Apply the knowledge gained and develop cosmetics to solve problems associated with skin, hair and scalp.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO809.1	3	-	2	2	-	-	-	-	-	1	1	1	1
CO809.2	3	-	2	2	-	-	-	-	-	1	1	2	1
CO809.3	3	-	2	2	-	-	-	-	-	1	1	2	1
CO809.4	3	-	2	2	-	-	-	-	-	1	1	2	1
CO809.5	3	-	2	2	-	-	-	-	-	1	1	2	1
CO809.6	3	-	2	2	-	-	-	-	-	1	1	1	1
	3	-	2	2	-	-	-	-	-	1	1	2	1.66



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Department of B Pharmacy, Regulation : PCI			
Year : IV	Sem : II	Course Name : Pharmacological Screening Methods (Theory)	Code: BP810ET
Course Outcomes			
CO810.1	Understand CPCSEA/OECD guidelines for maintenance, breeding and conduct of experiments on laboratory animals and to demonstrate different laboratory/transgenic/ mutant animals, various routes of administration, techniques of blood collection and euthanasia.		
CO810.2	Outline various preclinical screening models for diuretics, hypnotics, antiasthmatics and drugs acting on CNS.		
CO810.3	Construct preclinical screening models for drugs acting on ANS, eye.		
CO810.4	Construct preclinical screening models for local anesthetics.		
CO810.5	Construct preclinical screening models for drugs acting on CVS.		
CO810.6	Compile research methodology and biostatistics in pharmacological screening methods.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO810.1	3	-	2	2	-	-	-	-	-	1	1	-	1
CO810.2	3	-	2	2	-	-	-	-	-	1	1	2	1
CO810.3	3	-	2	2	-	-	-	-	-	1	1	2	1
CO810.4	3	-	2	2	-	-	-	-	-	1	1	2	1
CO810.5	3	-	2	2	-	-	-	-	-	1	1	2	1
CO810.6	3	-	2	2	-	-	-	-	-	1	1	-	1
	3	-	2	2	-	-	-	-	-	1	1	2	1



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Department of B Pharmacy, Regulation : PCI	
Year : IV Sem : II Course Name : Advanced Instrumentation Techniques (Theory) Code: BP811ET	
Course Outcomes	
CO811.1	Understand the principle and procedure involved in NMR and mass spectrophotometer.
CO811.2	Gain knowledge on characterization and estimation of drugs by thermal techniques and X-ray diffraction techniques.
CO811.3	Simplify the importance of calibration of analytical instruments as per ICH and USFDA guidelines.
CO811.4	Analyze the validation parameters according ICH guidelines.
CO811.5	Gain knowledge on RIA and principles involved in extraction techniques.
CO811.6	Summarize the principle, instrumentation and applications of hyphenated techniques.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO811.1	3	-	2	-	-	-	-	-	1	-	2	2	-
CO811.2	3	-	2	3	-	1	-	-	-	-	2	2	-
CO811.3	3	-	2	3	-	1	-	-	3	-	2	2	-
CO811.4	3	-	2	3	-	1	-	-	3	-	2	2	-
CO811.5	3	-	3	3	-	1	-	-	3	-	2	2	-
CO811.6	3	-	3	3	-	1	-	-	3	-	2	2	-
	3	-	2.20	3	-	1	-	-	2.50	-	2	2	-



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Department of B Pharmacy, Regulation : PCI			
Year : IV	Sem : II	Course Name : Dietary Supplements and Nutraceuticals (Theory)	Code: BP812ET
Course Outcomes			
CO812.1	Classify and remember the functional foods, Nutraceuticals and dietary supplements.		
CO812.2	Interprete the applications of phytochemicals as Nutraceuticals like sulfies, phytochemicals as Nutraceuticals like sulfides, polyphenolics, flavonoids, probiotics, Tocopherols, proteins, minerals etc.		
CO812.3	Analyse the role of dietary fibres and complex carbohydrates as functional food ingredients.		
CO812.4	Identify the damaging reactions of free radicals on terpenoids, carbohydrates, proteins and nucleic acids.		
CO812.5	Role of functional foods in various disease conditions.		
CO812.6	iscuss the regulatory aspects, adultration of dietary fibres and Nutraceuticals and their pharmacopoeal specifications.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO812.1	3	-	3	2	-	-	-	-	1	1	-	2	1
CO812.2	3	-	3	2	-	-	-	-	1	1	-	2	1
CO812.3	3	-	3	2	-	-	-	-	1	1	-	2	1
CO812.4	3	-	3	2	-	-	-	-	1	1	-	2	1
CO812.5	3	-	3	2	-	-	-	-	1	1	-	2	1
CO812.6	3	-	3	2	-	-	-	-	1	1	-	2	1
	3	-	3	2	-	-	-	-	1	1	-	2	1



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Department of B Pharmacy, Regulation : PCI			
Year : IV	Sem : II	Course Name : Elective course of Pharmaceutical Product Development (Theory)	Code: BP813ET
Course Outcomes			
CO813.1	Recall the regulatory guidelines of formulation development, stability assessment, manufacturing and quality control of different types of dosage forms.		
CO813.2	Outline the role of different pharmaceutical excipients in product development.		
CO813.3	Outline the role of different pharmaceutical tablet excipients in product development.		
CO813.4	Outline the role of different pharmaceutical capsule excipients in product development.		
CO813.5	Choose optimization technique in the development of pharmaceutical drug product.		
CO813.6	Classify different of packaging for the drug product and materials used for primary and secondary packaging.		

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO813.1	3	-	3	2	-	-	-	-	1	-	-	2	1
CO813.2	3	-	3	2	-	-	-	-	1	-	-	2	1
CO813.3	3	-	3	2	-	-	-	-	1	-	-	2	1
CO813.4	3	-	3	2	-	-	-	-	1	-	-	2	1
CO813.5	3	-	3	2	-	-	-	-	1	-	-	2	1
CO813.6	3	-	3	2	-	-	-	-	1	-	-	2	1
	3	-	3	2	-	-	-	-	1	-	-	2	1



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Department of B Pharmacy, Regulation : PCI	
Year : IV	Sem : II
Course Name : Project Work	Code : BP813PW
Course Outcomes	
CO813.1	Define the fundamentals, carry out the literature review on the proposed research work and identify the problem.
CO813.2	Develop the research hypothesis.
CO813.3	Summarize the requirements in the proposed research.
CO813.4	Take part in research experiments and documented.
CO813.5	Evaluate the work done by applying statistic tools.
CO813.6	Appraise societal application and appreciation.

CO-PO Mapping

CO	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO813.1	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.2	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.3	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.4	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.5	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.6	2	1	2	2	3	1	2	2	2	-	-	2	2
	2	1	2	2	3	1	2	2	2	-	-	2	2

Faculty

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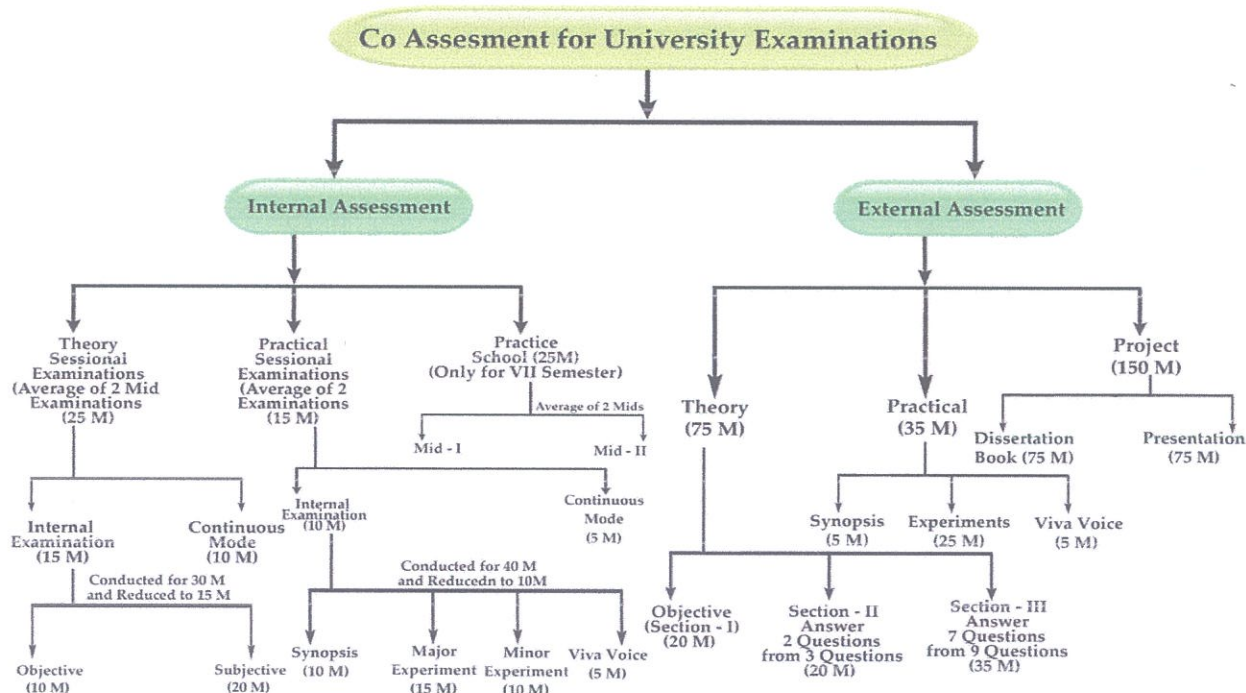
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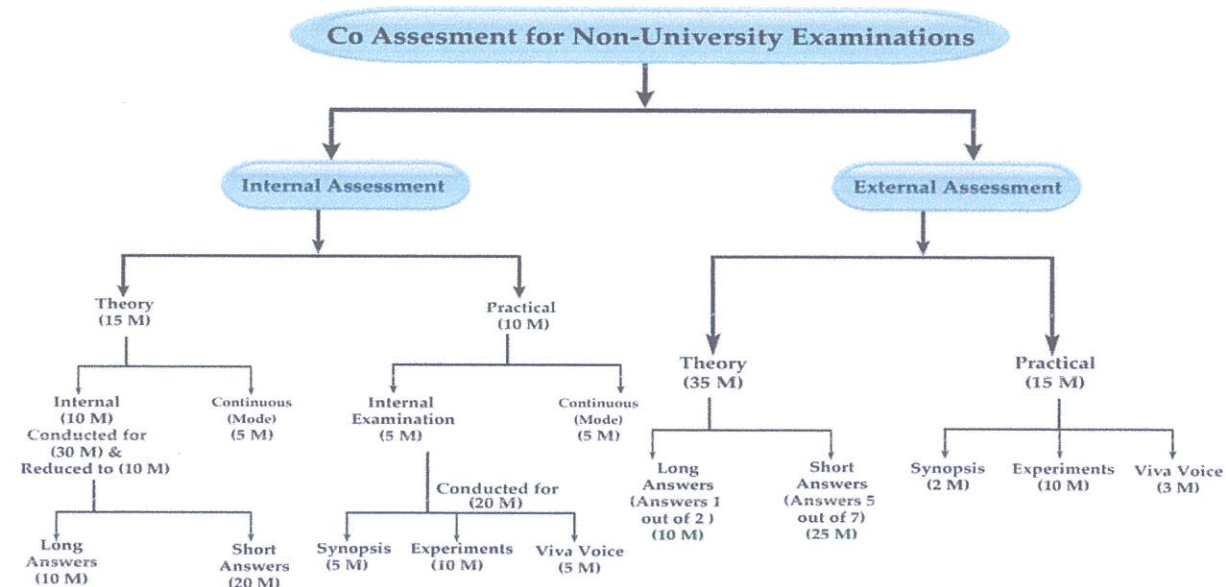
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CO Assessment and Attainment Process:

Direct attainment of COs is determined from the performance of students in Semester Internal Examination (SIE) and Semester External Examination (SEE). The proportional weightages of SIE: SEE set in the ratio 40:60 for both university and non-university examinations.



CO Assessment for B Pharmacy university Examinations



CO Assessment for B Pharmacy Non-university Examinations

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- For each theory course, they are two internal examinations and the division of COs is listed below.

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

- For each practical course, they are two internal examinations and the division of COs 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 two internal examinations and semester end examination conducted by the university or the college.
- 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.



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- 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 (20 M)	75% of maximum marks (15 marks out of 20)
Objective (10 M)	75 % of maximum marks (7.5 marks out of 10)
Continuous Mode (10 M)	75 % of maximum marks (7.5 marks out of 10)
Practical Internal Examinations	
Lab internal Exam	75 % of maximum marks (7.5 marks out of 10)
Continuous Mode (5 M)	75 % of maximum marks (3.75 marks out of 5)
External Examination	
Both Theory and Lab courses	Grade weightage (10) obtained subject to a minimum of 60%
Project	75 % of maximum marks (112.5 marks out of 150)

- 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 25% of internal and 85% of External assessment will be calculated. For Laboratory courses 40% of internal and 60% of External assessment 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.



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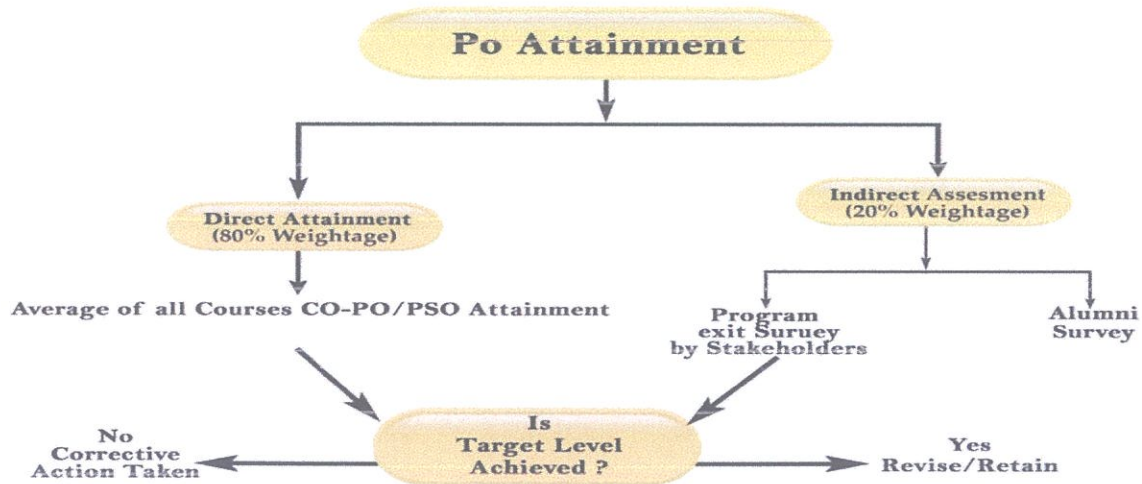


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PO/PSO Assessment and Attainment process:

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. Programme 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

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 all the 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.

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

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Overall Attainment of PO

Overall PO attainment= 80% of Direct PO Attainment + 20% 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 2019- 2023 B Pharmacy Batch

The CO and PO/PSO of all the subjects during the 2019- 2023 batch were calculated after evaluating the results. In our department of Pharmacy Forty one theory courses, Twenty Five practical courses and One project work were conducted during the 2019- 2023 batch under PCI (R14) regulation. The following data provides the CO and PO/PSO of 2019- 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	BP101T	Human Anatomy and Physiology - I	2.88	-	2.88	-	-	-	-	-	2.94	-	1.92	2.88	2.92
2	BP102T	Pharmaceutical Analysis - I	2.79	-	2.79	2.80	-	2.80	-	-	2.87	-	1.86	2.79	2.88
3	BP103T	Pharmaceutics - I	2.74	-	2.75	2.69	-	2.79	3.00	-	2.71	-	-	2.75	2.63
4	BP104T	Pharmaceutical Inorganic Chemistry	2.00	-	1.98	2.13	-	1.96	-	-	1.75	-	1.14	2.25	2.00
5	BP105T	Communication Skills	-	2.75	2.75	-	-	-	-	2.67	2.50	-	1.78	3.00	2.67
6	BP106RMT	Remedial Mathematics	2.50	-	2.54	-	-	-	-	-	2.50	-	1.69	2.55	-
7	BP106RBT	Remedial Biology	2.63	-	2.7	-	-	-	-	-	3	-	1.83	2.7	-
8	BP107P	Human Anatomy and Physiology - I Practical	3.00	-	3.00	-	-	-	-	-	3.00	3.00	3.00	3.00	3.00
9	BP108P	Pharmaceutical Analysis - I Practical	3.00	3.00	3.00	3.00	-	-	-	-	-	-	3.00	3.00	3.00

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10	BP109P	Pharmaceutics - I Practical	2.40	-	2.40	-	-	-	-	-	2.40	2.40	2.40	2.40	2.40
11	BP110P	Pharmaceutical Inorganic Chemistry Practical	2.00	-	2.00	2.00	-	2.00	-	-	2.00	-	2.00	2.00	2.00
12	BP111P	Communication Skills Practical	-	3.00	3.00	-	-	-	-	3.00	3.00	-	3.00	3.00	3.00
13	BP112P	Remedial Biology Practical	3	-	3	-	-	-	-	-	3	-	3	3	3
14	BP201T	Human Anatomy and Physiology - II	2.88	-	2.88	-	-	-	-	-	2.94	-	1.92	2.88	3.00
15	BP202T	Pharmaceutical Organic Chemistry - I	2.88	-	2.87	2.94	-	2.86	-	-	2.75	-	1.61	2.88	-
16	BP203T	Biochemistry	2.60	-	2.62	2.56	-	2.68	3.00	-	2.60	-	-	2.63	2.50
17	BP204T	Pathophysiology	2.79	-	2.79	-	-	-	-	-	2.87	-	1.86	2.79	2.79
18	BP205T	Computer applications in Pharmacy	2.71	-	2.68	-	-	-	-	-	2.60	-	1.81	2.71	-
19	BP206T	Environmental Science	2.79	-	2.79	-	-	-	-	-	-	-	2.79	2.79	-
20	BP207P	Human anatomy and physiology – II Practical	2.40	-	2.40	-	-	-	-	-	2.40	2.40	1.07	2.40	2.40
21	BP208P	Pharmaceutical Organic Chemistry – I Practical	2.00	-	2.40	-	-	-	-	-	2.40	2.40	1.33	1.50	1.50
22	BP209P	Biochemistry Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	-	3.00
23	BP210P	Computer applications in	3.00	-	3.00	-	-	-	-	-	3.00	-	3.00	3.00	-



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		Pharmacy Practical													
24	BP301T	Pharmaceutical Organic Chemistry – II	2.88	-	2.87	2.94	-	2.86	-	-	-	-	2.90	3.00	2.88
25	BP302T	Physical Pharmaceutics -I	2.75	2.75	3.00	2.75	3	3	-	-	-	3.00	3.00	3.00	3.00
26	BP303T	Pharmaceutical Microbiology	2.08	-	2.08	2.08	-	-	-	-	-	-	2.08	2.08	2.08
27	BP304T	Pharmaceutical Engineering	2.75	-	2.77	2.69	-	2.75	2.75	-	2.69	-	-	2.75	2.88
28	BP305P	Pharmaceutical Organic Chemistry II – Practical	3.00	-	3.00	3.00	-	3.00	-	-	-	-	2.25	3.00	3.00
29	BP306P	Physical Pharmaceutics I – Practical	1.44	-	1.44	1.20	-	1.44	-	-	-	-	1.35	-	1.44
30	BP307P	Pharmaceutical Microbiology – Practical	3.00	-	3.00	-	-	3.00	-	-	-	-	3.00	-	3.00
31	BP308P	Pharmaceutical Engineering – Practical	3.00	-	3.00	-	-	3.00	-	-	-	-	3.00	-	3.00
32	BP401T	Pharmaceutical organic chemistry - III	2.13	-	2.13	2.13	-	-	-	-	-	2.13	2.13	2.15	2.13
33	BP402T	Medicinal Chemistry - I	1.42	-	1.42	1.42	-	-	-	-	1.42	1.42	-	1.42	1.42
34	BP403T	Physical Pharmaceutics -II	2.13	-	2.13	2.13	-	-	-	-	-	2.13	2.13	2.15	2.13
35	BP404T	Pharmacology - I	2.88	-	2.88	2.88	-	-	-	-	-	2.88	2.88	2.94	2.88
36	BP405T	Pharmacognosy -I	2.88	-	2.88	2.88	-	-	-	-	2.88	2.88	2.88	2.89	2.88



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37	BP406P	Medicinal Chemistry I – Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
38	BP407P	Physical Pharmaceutics II – Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
39	BP408P	Pharmacology I – Practical	2.40	-	2.40	2.40	-	-	-	-	-	-	-	2.40	2.40
40	BP409P	Pharmacognosy I – Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
41	BP501T	Medicinal Chemistry - II	2.58	-	2.59	-	-	-	-	-	2.62	-	1.72	2.58	2.67
42	BP502T	Industrial Pharmacy - I	2.79	-	2.79	2.79	-	-	-	-	2.79	2.79	2.79	2.83	2.79
43	BP503T	Pharmacology - II	2.17	-	2.17	2.17	-	-	-	-	2.17	2.17	0.72	2.20	2.17
44	BP504T	Pharmacognosy - II	2.67	-	-	2.67	-	-	-	-	-	-	2.67	2.67	2.67
45	BP505T	Pharmaceutical Jurisprudence	2.83	-	2.83	-	-	2.83	2.83	-	2.80	2.83	-	2.83	2.83
46	BP506P	Industrial Pharmacy – I Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
47	BP507P	Pharmacology - II Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
48	BP508P	Pharmacognosy - II Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
49	BP601T	Medicinal Chemistry - III	2.92	-	2.90	2.92	-	-	-	-	2.92	2.92	-	2.92	2.92
50	BP602T	Pharmacology - III	2.83	-	2.83	2.83	-	-	-	-	2.83	2.83	-	2.83	2.83
51	BP603T	Herbal Drug Technology	2.71	-	2.71	2.71	-	-	-	-	-	-	-	2.71	2.71



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52	BP604T	Biopharmaceutics and Pharmacokinetics	2.78	-	2.79	2.81	-	-	-	-	-	-	-	2.79	2.79
53	BP605T	Pharmaceutical Biotechnology-	2.75	-	2.73	2.75	-	-	-	-	2.75	2.75	-	2.75	2.75
54	BP606T	Quality Assurance	2.63	-	2.62	2.63	-	-	-	-	2.63	2.63	-	2.63	2.63
55	BP607P	Medicinal chemistry -III Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
56	BP608P	Pharmacology III - Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
57	BP609P	Herbal Drug Technology Practical	3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00
58	BP701T	Instrumental Methods of Analysis	2.79	-	2.77	2.88	-	2.88	-	-	2.88	-	-	2.79	2.79
59	BP702T	Industrial Pharmacy - II	2.92	-	2.92	2.92	-	-	-	-	-	-	-	2.92	2.92
60	BP703T	Pharmacy Practice	2.83	-	2.83	2.83	-	-	-	-	-	-	-	2.83	2.83
61	BP704T	Novel Drug Delivery System	2.88	-	2.88	2.88	-	-	-	-	-	-	-	2.88	2.88
62	BP705P	Instrumental Methods of Analysis Practical	3	-	3	3	-	-	-	-	-	-	-	3	3
63	BP801T	Biostatistics and Research Methodology	2.79	2.95	2.79	2.80	-	-	-	-	-	-	2.79	-	2.79
64	BP802T	Social and Preventive Pharmacy	2.83	3.00	2.83	2.86	-	-	-	-	-	-	2.83	-	2.83



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65	BP803ET	Pharmaceutical Marketing	2.75	-	2.75	-	-	2.75	2.75	-	2.72	2.75	-	2.75	2.75
66	BP809ET	Cosmetic Science	2.58	-	2.46	2.50	-	2.50	-	-	2.42	-	2.58	2.58	-
67	BP813PW	Project Work	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	2.70	2.92	2.72	2.69	3.00	2.67	2.89	2.89	2.65	2.26	2.26	2.72	2.71
Indirect	2.81	2.46	2.87	2.65	2.78	2.97	2.65	2.75	2.36	2.25	2.35	2.34	2.65
Overall	2.722	2.828	2.75	2.682	2.956	2.73	2.842	2.862	2.592	2.258	2.278	2.644	2.698




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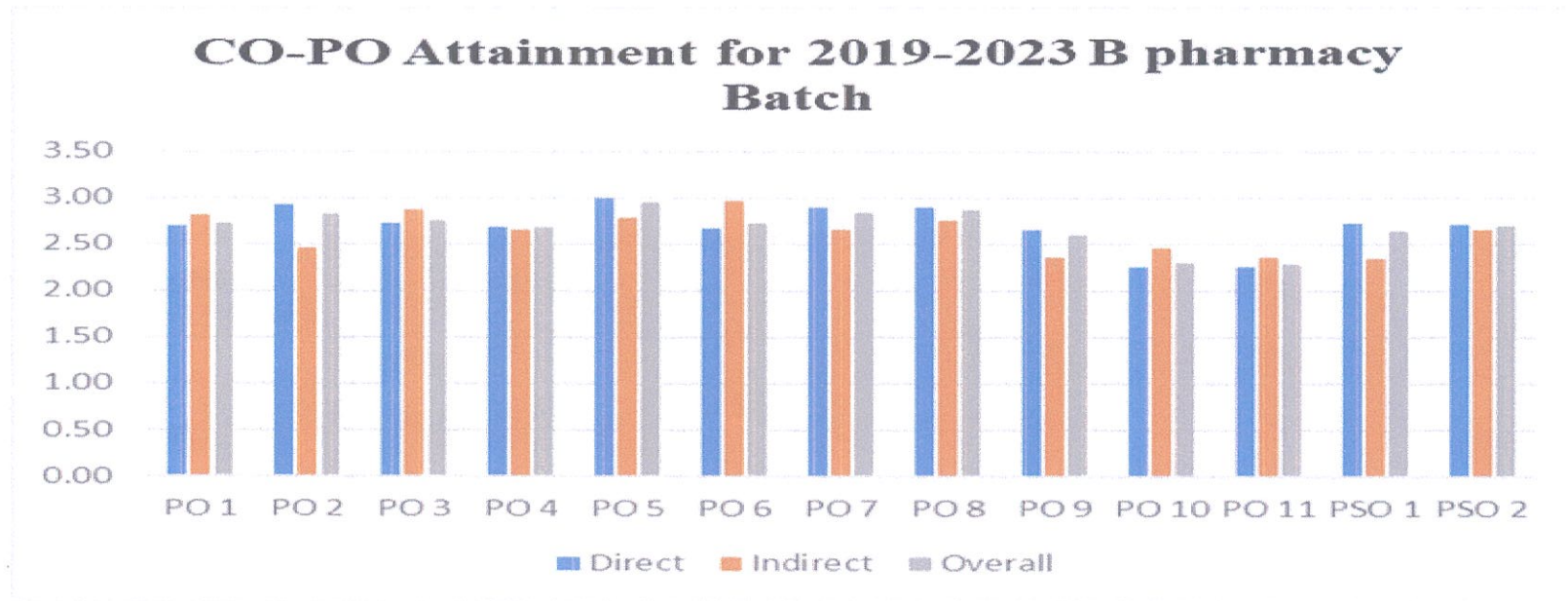


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CO-PO Attainment for 2019-2023 B Pharmacy Batch




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Continuous Quality Improvement for PO's and PSO's:

Target= 2.3

Observation: All PO's and PSO's attained the target except PO 10 (Environment and Sustainability) and PO 11 (Life-Long Learning) which are marginally attained.

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

POs Attainment Levels and actions for improvement of B Pharmacy course (2018-2023)

POs Target Level Attainment Level Observation

PO 1 : Pharmacy Knowledge 2.72 2.30

Target level is achieved with respect to course outcomes. The complicated concepts of B Pharmacy fed to the students in the best way through the curriculum provided. The students have a strong generic knowledge of core and basic knowledge associated with the profession of pharmacy, including biomedical sciences, pharmaceutical sciences, behavioral, social, administrative pharmacy sciences, and manufacturing practices. This provides the cognizance to apply those skills in application development.

The following courses did not meet the target level: BP104T, BP110P, BP208P, BP303T, BP306P, BP401T, BP402T, BP403T and BP503T.

Action 1: Extra lab sessions were conducted to improve the practical knowledge.

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

Action 3: Extra material was given as handouts for understanding the concepts.

Action 4: Encouraged the students for the effective use of the library for reference to the latest journals related to the subject.

Action 5: Methods were adopted to identify weaker students and remedial sessions were conducted to improve their performance.





ESTD : 2005

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PO 2 : Planning Abilities 2.82 2.30

Target level is achieved with respect to course outcomes. PO 2 is attained because of implementation of effective planning abilities including time management, resource management, delegation skills and organizational skills. The project provides the opportunity to develop and implement plans and organize work to meet deadlines.

All the courses met the target level.

PO 3: Problem Analysis 2.75 2.30

Target level is achieved with respect to course outcomes. Problem analysis is achieved through the utilization of the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. The course helps the student in the design of formulation of drugs and Pharmaco-therapy of diseases. PO3 is attained since the overall concepts of the subject helped the student in the design of dosage forms.

The following courses did not meet the target level : BP104T, BP110P, BP303T, BP306P, BP401T, BP402T, BP403T and BP503T.

Action 1: Extra material was provided as handouts for understanding the concepts.

Action 2: Methods were adopted to identify weaker students and remedial sessions were conducted to improve their performance.

Action 3: Extra lab sessions were conducted to improve the practical knowledge.

Action 4: Some questions related to Chemistry and Pharmacology had been given as assignments.

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

PO 4: Modern Usage Tool 2.68 2.30

Target level is achieved with respect to course outcomes. The subject provided the knowledge about learning and application of appropriate methods and procedures, resources and modern pharmacy-related computing tools with an understanding of the limitations. The knowledge gained helped in





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the application of modern instruments for the formulation and evaluation of dosage forms.

The following courses did not meet the target level: BP104T, BP110P, BP303T, BP306P, BP401T, BP402T, BP403T , BP503T and BP504T

Action 1: Challenging assignments had been given to each student and performance was monitored.

Action 2: Flipped classroom and video lectures was taken to understand the mechanism of action of drugs.

Action 3: Select a few students to conduct seminars about the advanced topics apart from the syllabus.

Action 4: Workshops were conducted for acquiring knowledge about utilization of modern instruments.

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

Action 6: Remedial classes were conducted to equip the students.

PO 5 : Leadership Skills 2.95 2.30

Target level is achieved with respect to course outcomes. The course enabled the students to understand and consider the human reactions to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and social responsibilities. PO5 is attained through the implementation of professional development programs.

All the courses met the target level.

PO 6 : Professional Identity 2.73 2.30

Target level is achieved with respect to course outcomes. Achievement of target indicates that the students were understanding, analyzing and communicating the value of their professional roles in the society for the uplift or augmentation of the safety of environment and health.

The following courses did not meet the target level: BP104T and BP306P.

Action 1: NSS activities, Medical camps and entrepreneurship clubs were conducted.

Action 2: Social Service activities were conducted.



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Action 3: Various technical fests and events conducted to explore the profession of pharmacy.

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

PO 7: Pharmaceutical Ethics 2.84 2.30

Target level is achieved with respect to course outcomes. Target was attained through ethical frameworks and application of ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.

All the courses met the target level.

PO 8: Communication 2.86 2.30

Target level is reached with respect to course outcomes. Effective communication is crucial in the field of pharmacy to ensure patient safety, optimal medication use, and successful healthcare outcomes. Target was attained through Patient Counseling, Medication Therapy Management, Electronic Communication and Health Records (EHR), Adverse Event Reporting and Patient Education Programs.

All the courses met the target level.

PO 9: The Pharmacist and the Society 2.59 2.30

Target level is reached with respect to course outcomes. Target was achieved through collaborative efforts and performing various initiatives to strengthen pharmacist-society relationship. The course provided an awareness of how to perform Public Health Campaigns, Community Outreach Programs, Emergency Preparedness, Health Promotion and Disease Prevention, Drug Abuse Prevention and Support for Vulnerable Populations etc.

The following courses did not meet the target level: BP104T, BP110P, BP402T and BP503T.

Action 1: Students were grouped for projects and mini-projects to work as a team.

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



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Action 3: Small quizzes and group discussions are also engaged in the tutorial hour to increase the participation of students.

Action 4: Extra material had given as handouts to understand the concepts

PO 10: Environment and Sustainability 2.25 2.30

Target level is not 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: BP401T, BP402T, BP403T and BP503T.

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.

PO 11: Life-Long Learning 2.27 2.30

Target level is not reached with respect to course outcomes. The knowledge acquired is basically lifelong learning and at the same time, it helps in team management and thereby aid in project management.

The following courses did not meet the target level: BP101T, BP102T, BP104T, BP105T, BP106RMT, BP106RBT, BP110P, BP201T, BP202T, BP204T, BP205T, BP207T, BP208P, BP303T, BP305T, BP306P, BP401T, BP403T, BP501T and BP503T,

Action 1: Arranged various platforms to learn knowledge .

Action 2: Library hours were given to encourage reading .

Action 3: Provided different links and guidance regarding the scope of learning their current trends.

Action 4: Tutorial classes were conducted with more participation from students.

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





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PSOs Attainment Levels and Actions for Improvement (2019-2023)

PSOs Target Level Attainment Level Observations

PSO 1: Scientific Analytical Thinking 2.64 2.30

Target level is achieved with respect to course outcomes. The course like Pharmaceutical Analysis, Industrial Pharmacy, Pharmacology and Pharmaceutical Chemistry etc, provided the exposure and enough knowledge for optimization of dosage regimen of drugs for safe and effective utilization.

The following courses did not meet the target level: BP104T, BP110P, BP208P, BP401T, BP402T, BP403T and BP503T.

Action 1: Various training programs, Workshops were conducted to demonstrate the latest techniques in Pharmacy.

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

Action 3: Initiated to conduct seminars and assignments regarding the documentation of design decisions

Action 4: Participated in industrial Training Programmes.

PSO 2: Entrepreneurship 2.69 2.30

Target level is reached with respect to course outcomes. Target is achieved by creating awareness on Independent Pharmacy Ownership, Telepharmacy and Online Services and Pharmaceutical Consulting services.

The following courses did not meet the target level: BP104T, BP110P, BP208P, BP303T, BP306P, BP401T, BP402T, BP403T and BP503T.

Action 1: Expert Sessions conducted by Industry experts.

Action 2: Provide Collaborative interactive sessions with our functional MOU's.





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The Department of Pharmacy Practice, CO and PO/PSO of all the subjects during the 2019- 2023 B Pharmacy Batch was calculated after evaluating the results.

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

- 1) Industrial Pharmacy – II (University Examination)
- 2) Instrumental Methods of Analysis Practical (University Examination)
- 3) Remedial Mathematics (Non-University Examination)
- 4) Communication Skills Practical (Non-University Examination)
- 5) Project Work



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Regulation : PCI (R14) Subject : Industrial Pharmacy- II Year & Sem : IV-I

Faculty: Mr. M Rajeswara Rao, and Mr. S Rama Krishna, Department of Pharmaceutics

Course Outcomes

- CO702.1** Gain maximum knowledge on pilot plant scale up techniques and SUPAC guidelines.
CO702.2 Outline various aspects of technology transfer involved from R & D to production departments.
CO702.3 Understand the importance of regulatory affairs for drug approval.
CO702.4 Know the process of drug approval guidelines in india.
CO702.5 Remember the quality management system protocols for quality of products delivery.
CO702.6 Able to process the regulatory requirements for drug approval process in india.

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
CO702.1	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.2	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.4	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.5	3	-	2	2	-	-	-	-	-	-	-	2	2
CO702.6	3	-	2	2	-	-	-	-	-	-	-	2	2
	3	-	2	2	-	-	-	-	-	-	-	2	2

Ramesh Rao
Raj
Faculty



S. Rama Krishna
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Calculation Standards of Attainment

	1:Low(40%)	2:Medium(60%)	3: High(75%)
Descriptive (20M)	8	12	15
Objective (10M)	4	6	7.5
Continuous Mode (10 M)	4	6	7.5

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13	9T51R001	9	3	0	0	0	0	4	3	2	1	15	6	2	21	11	10	3	21	2.00	2.00	2.00
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23	9T51R002	9	3	0	0	5	3	5	3	0	1	19	8	3	27	14	10	3	24	3.00	2.25	2.33
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61	9T51R0063	9	3	0	0	0	0	5	3	4	0	18	5	1	23	12	10	3	22	1.75	1.75	1.33
62	9T51R0064	0	0	10	3	5	3	0	0	5	3	20	9	3	29	15	10	3	25	2.25	2.25	3.00
63	9T51R0065	10	3	0	0	0	0	5	3	4	3	19	7	2	26	13	10	3	23	2.00	2.00	2.67
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66	9T51R0068	0	0	9	3	5	3	0	0	5	3	19	7	2	26	13	10	3	23	2.00	2.00	2.67
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71	9T51R0074	0	0	10	3	0	0	5	3	5	3	20	9	3	29	15	10	3	25	1.50	3.00	3.00
72	9T51R0075	0	0	9	3	5	3	5	3	0	1	19	10	3	29	15	10	3	25	2.25	3.00	2.33
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74	9T51R0077	0	0	9	3	0	0	5	3	4	0	18	8	3	26	13	10	3	23	1.50	3.00	2.00
75	9T51R0078	0	0	10	3	5	3	5	3	0	1	20	9	3	29	15	10	3	25	2.25	3.00	2.33
76	9T51R0079	0	0	9	3	5	3	4	3	0	1	18	8	3	26	13	10	3	23	2.25	3.00	2.33
77	9T51R0080	10	3	0	0	5	3	5	3	0	1	20	10	3	30	15	10	3	25	3.00	2.25	2.33
78	9T51R0081	9	3	0	0	5	3	0	0	4	3	18	8	3	26	13	10	3	23	3.00	1.50	3.00
79	9T51R0082	9	3	0	0	4	3	0	0	5	3	18	8	3	26	13	10	3	23	3.00	1.50	3.00
80	9T51R0083	10	3	0	0	0	0	5	3	5	3	20	8	3	28	14	10	3	24	2.25	2.25	3.00
81	9T51R0084	9	3	0	0	5	3	0	0	5	3	19	8	3	27	14	10	3	24	3.00	1.50	3.00
82	9T51R0085	0	0	9	3	5	3	0	0	4	3	18	8	3	26	13	10	3	23	2.25	2.25	3.00
83	9T51R0086	9	3	0	0	0	0	5	3	5	3	19	10	3	29	15	10	3	25	2.25	2.25	3.00
84	9T51R0087	10	3	0	0	5	3	0	0	5	3	20	10	3	30	15	10	3	25	3.00	1.50	3.00
85	9T51R0088	0	0	8	3	0	0	3	2	4	3	15	8	3	23	12	10	3	22	1.50	2.75	3.00
86	9T51R0089	9	3	0	0	0	0	5	3	4	3	18	9	3	27	14	10	3	24	2.25	2.25	3.00
87	9T51R0090	9	3	0	0	5	3	5	3	5	3	19	10	3	27	15	10	3	25	2.25	2.25	2.33
88	9T51R0091	9	3	0	0	0	0	4	3	4	3	13	10	3	23	12	10	3	23	1.50	2.25	2.33



89	9T51R009	9	3	0	0	0	0	5	3	5	3	19	10	3	29	15	10	3	25	2.25	2.25	3.00
90	9T51R009	9	3	0	0	5	3	5	3	0	1	19	10	3	29	15	10	3	25	3.00	2.25	2.33
91	9T51R009	9	3	0	0	5	3	0	0	5	3	19	8	3	27	14	10	3	24	3.00	1.50	3.00
92	9T51R009	0	0	8	3	4	3	0	0	2	0	14	7	2	21	11	10	3	21	2.00	2.00	1.67
93	9T51R009	0	0	9	3	5	3	0	0	4	3	18	10	3	28	14	10	3	24	2.25	2.25	3.00
94	9T51R009	0	0	9	3	5	3	0	0	4	3	18	10	3	28	14	10	3	24	2.25	2.25	3.00
95	9T51R009	9	3	0	0	0	0	5	3	5	3	19	9	3	28	14	10	3	24	2.25	2.25	3.00
96	9T51R009	0	0	8	3	5	3	0	0	4	3	17	8	3	25	13	10	3	23	2.25	2.25	3.00
97	9T51R00A	9	3	0	0	5	3	0	0	5	3	19	8	3	27	14	10	3	24	3.00	1.50	3.00
98	9T51R00A	0	0	10	3	5	3	0	0	5	3	20	10	3	30	15	10	3	25	2.25	2.25	3.00
99	9T51R00A	0	0	9	3	4	3	0	0	5	3	18	10	3	28	14	10	3	24	2.25	2.25	3.00
100	8T51R007	0	0	9	3	4	3	0	0	5	3	18	10	3	28	14	10	3	24	2.25	2.25	3.00

Attainment Level Summary	CO1	CO2	CO3
Maximum Attainment Level	3	3	3
Cut-off Attainment Level (60%)	1.8	1.8	1.8
No.of Student >=Cut-off	72	81	92
% of students >=cut-off	72	81	92
Level Attained	2	3	3
Level of Attained			
% of students	<60	60-79	>=80
Level	1	2	3

Sarath
Faculty



Principal
Principal

PRINCIPAL

Avanthi Institute of Pharmaceutical Sciences
Cherukupally (V), Bhogapuram Mandal
Vizianagaram Dt., - 531162

12	19T51R0012	0	0	9	3	5	3	0	0	5	3	19	8	3	27	14	10	3	24	3.00	1.50	3.00
13	19T51R0013	9	3	0	0	0	0	5	3	5	3	19	8	3	27	14	10	3	24	2.00	3.00	2.25
14	19T51R0014	9	3	0	0	0	0	5	3	5	3	19	8	3	27	14	10	3	24	2.00	3.00	2.25
15	19T51R0015	9	3	0	0	5	3	0	0	5	3	19	6	2	25	13	10	3	23	2.67	2.00	2.00
16	19T51R0017	9	3	0	0	5	3	0	0	5	3	19	8	3	27	14	10	3	24	3.00	2.25	2.25
17	19T51R0018	0	0	10	3	0	0	5	3	5	3	20	7	2	27	14	10	3	24	1.67	2.00	2.75
18	19T51R0019	0	0	9	3	5	3	5	3	0	0	19	5	1	24	12	10	3	22	2.33	1.75	1.75
19	19T51R0020	0	0	9	3	5	3	5	3	0	0	19	6	2	25	13	10	3	23	2.67	2.00	2.00
20	19T51R0021	0	0	9	3	5	3	0	0	5	3	19	8	3	27	14	10	3	24	3.00	1.50	3.00
21	19T51R0022	0	0	9	3	5	3	5	3	0	0	19	8	3	27	14	10	3	24	3.00	2.25	2.25
22	19T51R0023	0	0	9	3	4	3	0	0	4	3	17	9	3	26	13	10	3	23	3.00	1.50	3.00
23	19T51R0024	0	0	9	3	5	3	0	0	5	3	19	6	2	25	13	10	3	23	2.67	1.25	2.75
24	19T51R0025	0	0	9	3	5	3	0	0	5	3	19	6	2	25	13	10	3	23	2.67	1.25	2.75
25	19T51R0026	9	3	0	0	0	0	5	3	5	3	19	6	2	25	13	10	3	23	1.67	2.75	2.00
26	19T51R0027	9	3	0	0	0	0	5	3	5	3	19	6	2	25	13	10	3	23	1.67	2.75	2.00
27	19T51R0028	9	3	0	0	4	3	0	0	4	3	17	9	3	26	13	10	3	23	3.00	2.25	2.25
28	19T51R0029	0	0	8	3	3	2	0	0	5	3	16	8	3	24	12	10	3	22	2.67	1.50	3.00
29	19T51R0030	9	3	0	0	0	0	4	3	5	3	18	7	2	25	13	10	3	23	1.67	2.75	2.00
30	19T51R0031	0	0	9	3	4	3	4	3	0	0	17	7	2	24	12	10	3	22	2.67	2.00	2.00
31	19T51R0032	0	0	9	3	5	3	5	3	0	0	19	4	1	23	12	10	3	22	2.33	1.75	1.75
32	19T51R0033	0	0	9	3	5	3	0	0	5	3	19	6	2	25	13	10	3	23	2.67	1.25	2.75
33	19T51R0034	9	3	0	0	0	0	5	3	5	3	19	6	2	25	13	10	3	23	1.67	2.75	2.00
34	19T51R0035	0	0	9	3	5	3	4	3	0	0	18	7	2	25	13	10	3	23	2.67	2.00	2.00
35	19T51R0036	9	3	0	0	0	0	4	3	5	3	18	8	3	26	13	10	3	23	2.00	3.00	2.25
36	19T51R0037	0	0	9	3	5	3	0	0	5	3	19	5	1	24	12	10	3	22	2.33	1.00	2.50
37	19T51R0038	0	0	9	3	5	3	0	0	5	3	19	10	3	29	15	10	3	25	3.00	1.50	3.00
38	19T51R0039	0	0	9	3	0	0	4	3	5	3	18	8	3	26	13	10	3	23	2.00	2.25	3.00
39	19T51R0040	0	0	8	3	5	3	0	0	5	3	18	7	2	25	13	10	3	23	2.67	1.25	2.75
40	19T51R0041	9	3	0	0	5	3	0	0	5	3	19	7	2	26	13	10	3	23	2.67	2.00	2.00
41	19T51R0042	10	3	0	0	5	3	4	3	0	0	19	5	1	24	12	10	3	22	2.33	2.50	1.00
42	19T51R0043	6	2	0	0	3	2	3	2	0	0	12	7	2	19	10	10	3	20	2.33	2.25	1.25
43	19T51R0044	0	0	9	3	5	3	0	0	5	3	19	9	3	28	14	10	3	24	3.00	1.50	3.00
44	19T51R0045	8	3	0	0	0	0	4	3	5	3	17	7	2	24	12	10	3	22	1.67	2.75	2.00
45	19T51R0046	0	0	9	3	5	3	0	0	4	3	18	6	2	24	12	10	3	22	2.67	1.25	2.75
46	19T51R0047	9	3	0	0	0	0	5	3	5	3	19	6	2	25	13	10	3	23	1.67	2.75	2.00
47	19T51R0048	9	3	0	0	4	3	0	0	4	3	17	7	2	24	12	10	3	22	2.67	2.00	2.00
48	19T51R0049	0	0	9	3	5	3	0	0	5	3	19	8	3	27	14	10	3	24	3.00	1.50	3.00
49	19T51R0050	6	2	0	0	5	3	5	3	0	0	16	7	2	23	12	10	3	22	2.67	2.50	1.25
50	19T51R0051	9	3	0	0	3	2	5	3	0	0	17	6	2	23	12	10	3	22	2.33	2.75	1.25
51	19T51R0052	9	3	0	0	5	3	4	3	0	0	18	7	2	25	13	10	3	23	2.67	2.00	2.00



52	19T51R0053	9	3	0	0	0	0	5	3	5	3	19	7	2	26	13	10	3	23	1.67	2.75	2.00
53	19T51R0054	6	2	0	0	3	2	3	2	0	0	12	7	2	19	10	10	3	20	2.33	2.25	1.25
54	19T51R0055	9	3	0	0	0	0	5	3	5	3	19	8	3	27	14	10	3	24	2.00	3.00	2.25
55	19T51R0056	9	3	0	0	5	3	0	0	5	3	19	8	3	27	14	10	3	24	3.00	2.25	2.25
56	19T51R0057	0	0	10	3	0	0	5	3	5	3	20	7	2	27	14	10	3	24	1.67	2.00	2.75
57	19T51R0058	10	3	0	0	0	0	5	3	5	3	20	7	2	27	14	10	3	24	1.67	2.75	2.00
58	19T51R0060	0	0	10	3	5	3	0	0	5	3	20	7	2	27	14	10	3	24	2.67	1.25	2.75
59	19T51R0061	0	0	10	3	5	3	5	3	0	0	20	8	3	28	14	10	3	24	3.00	2.25	2.25
60	19T51R0062	10	3	0	0	0	0	5	3	5	3	20	7	2	27	14	10	3	24	1.67	2.75	2.00
61	19T51R0063	0	0	10	3	5	3	5	3	0	0	20	9	3	29	15	10	3	25	3.00	2.25	2.25
62	19T51R0064	0	0	10	3	5	3	0	0	5	3	20	8	3	28	14	10	3	24	3.00	1.50	3.00
63	19T51R0065	0	0	10	3	5	3	0	0	5	3	20	8	3	28	14	10	3	24	3.00	1.50	3.00
64	19T51R0066	9	3	0	0	5	3	5	3	0	0	19	8	3	27	14	10	3	24	3.00	3.00	1.50
65	19T51R0067	10	3	0	0	5	3	5	3	0	0	20	7	2	27	14	10	3	24	2.67	2.75	1.25
66	19T51R0068	0	0	9	3	5	3	0	0	5	3	19	8	3	27	14	10	3	24	3.00	1.50	3.00
67	19T51R0069	0	0	9	3	4	3	5	3	0	0	18	8	3	26	13	10	3	23	3.00	2.25	2.25
68	19T51R0070	0	0	9	3	5	3	5	3	0	0	19	7	2	26	13	10	3	23	2.67	2.00	2.00
69	19T51R0071	9	3	0	0	5	3	5	3	0	0	19	7	2	26	13	10	3	23	2.67	2.75	1.25
70	19T51R0072	0	0	9	3	4	3	5	3	0	0	18	8	3	26	13	10	3	23	3.00	2.25	2.25
71	19T51R0074	0	0	9	3	5	3	5	3	0	0	19	9	3	28	14	10	3	24	3.00	2.25	2.25
72	19T51R0075	0	0	9	3	0	0	4	3	5	3	18	8	3	26	13	10	3	23	2.00	2.25	3.00
73	19T51R0076	0	0	10	3	5	3	5	3	0	0	20	8	3	28	14	10	3	24	3.00	2.25	2.25
74	19T51R0077	9	3	0	0	5	3	0	0	5	3	19	9	3	28	14	10	3	24	3.00	2.25	2.25
75	19T51R0078	0	0	10	3	5	3	5	3	0	0	20	8	3	28	14	10	3	24	3.00	2.25	2.25
76	19T51R0079	9	3	0	0	5	3	5	3	0	0	19	8	3	27	14	10	3	24	3.00	3.00	1.50
77	19T51R0080	10	3	0	0	5	3	0	0	5	3	20	8	3	28	14	10	3	24	3.00	2.25	2.25
78	19T51R0081	10	3	0	0	5	3	0	0	5	3	20	8	3	28	14	10	3	24	3.00	2.25	2.25
79	19T51R0082	10	3	0	0	5	3	5	3	0	0	20	8	3	28	14	10	3	24	3.00	3.00	1.50
80	19T51R0083	10	3	0	0	0	0	5	3	5	3	20	10	3	30	15	10	3	25	2.00	3.00	2.25
81	19T51R0084	0	0	9	3	5	3	5	3	0	0	19	9	3	28	14	10	3	24	3.00	2.25	2.25
82	19T51R0085	10	3	0	0	5	3	0	0	5	3	20	8	3	28	14	10	3	24	3.00	2.25	2.25
83	19T51R0086	6	2	0	0	3	2	3	2	0	0	12	7	2	19	10	10	3	20	2.33	2.25	1.25
84	19T51R0087	9	3	0	0	0	0	5	3	5	3	19	9	3	28	14	10	3	24	2.00	3.00	2.25
85	19T51R0088	0	0	9	3	5	3	5	3	0	0	19	8	3	27	14	10	3	24	3.00	2.25	2.25
86	19T51R0089	0	0	9	3	5	3	5	3	0	0	19	9	3	28	14	10	3	24	3.00	2.25	2.25
87	19T51R0090	10	3	0	0	0	0	5	3	5	3	20	9	3	29	15	10	3	25	2.00	3.00	2.25
88	19T51R0091	6	2	0	0	3	2	3	2	0	0	12	7	2	19	10	10	3	20	2.33	2.25	1.25
89	19T51R0092	10	3	0	0	0	0	5	3	5	3	20	8	3	28	14	10	3	24	3.00	2.25	2.25
90	19T51R0093	10	3	0	0	0	0	5	3	5	3	20	6	2	26	13	10	3	24	2.00	2.75	2.00



91	19T51R0094	9	3	0	0	0	0	5	3	5	3	19	6	2	25	13	10	3	23	1.67	2.75	2.00
92	19T51R0095	0	0	9	3	5	3	0	0	5	3	19	6	2	25	13	10	3	23	2.67	1.25	2.75
93	19T51R0096	0	0	9	3	5	3	5	3	0	0	19	8	3	27	14	10	3	24	3.00	2.25	2.25
94	19T51R0097	9	3	0	0	0	0	5	3	5	3	19	8	3	27	14	10	3	24	2.00	3.00	2.25
95	19T51R0098	0	0	10	3	5	3	5	3	0	0	20	8	3	28	14	10	3	24	3.00	2.25	2.25
96	19T51R0099	10	3	0	0	0	0	5	3	5	3	20	8	3	28	14	10	3	24	2.00	3.00	2.25
97	19T51R00A1	10	3	0	0	0	0	5	3	5	3	20	8	3	28	14	10	3	24	2.00	3.00	2.25
98	19T51R00A2	0	0	9	3	5	3	0	0	5	3	19	6	2	25	13	10	3	23	2.67	1.25	2.75
99	19T51R00A3	0	0	10	3	5	3	5	3	0	0	20	6	2	26	13	10	3	23	2.67	2.00	2.00
100	18T51R0072	0	0	9	3	5	3	0	0	4	3	18	10	3	28	10	10	3	20	3.00	1.50	3.00

Attainment Level Summary			
	CO4	CO5	CO6
Maximum Attainment Level	3	3	3
Cut-off Attainment Level (60%)	1.8	1.8	1.8
No. of Student >=Cut-off	86	76	82
% of students >=cut-off	86	76	82
Level Attained	3	2	3
Level of Attained			
% of students	<60	60-79	>=80
Level	1	2	3

Parabhu Raju
Faculty



Anand
Principal

PRINCIPAL

Avanthi Institute of Pharmaceutical Sciences
Cherukupally (V), Bhogapuram Mandal
Vizianagaram Dt., - 531162



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES+A1:I12

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

Regulation : PCI (R14), Subject :Industrial Pharmacy - II Year & Sem : IV-I

CGPA CALCULATION

Marks Range Theory	Marks Range Lab	Letter Grade	Level	Grade Point
≥ 90	≥ 90	O	Outstanding	10
≥ 80 to < 90	≥ 80 to < 90	S	Excellent	9
≥ 70 to < 80	≥ 70 to < 80	A	Very Good	8
≥ 60 to < 70	≥ 60 to < 70	B	Good	7
≥ 50 to < 60	≥ 50 to < 60	C	Fair	6
≥ 40 to < 50	≥ 40 to < 50	D	Satisfactory	5
< 40	< 40	F	Fail	0
			Absent	0

Ranjay Rajul
Faculty



[Signature]
Principal
PRINCIPAL

Avanthi Institute of Pharmaceutical Sciences
Cherukupally (V), Bhogapuram Mandal
Vizianagaram Dt., - 531162



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI(R14), Subject : Industrial Pharmacy- II Year & Sem : IV-I

Faculty: Mr. M Rajeswara Rao, and Mr. S Rama Krishna, Department of Pharmaceutics

S NO	Roll NO	Grade	Grade Weightage	60% of External Attainment	Att. Level
1	19T51R0001	C	6	3.60	2
2	19T51R0002	B	7	4.20	2
3	19T51R0003	D	5	3.00	1
4	19T51R0004	D	5	3.00	1
5	19T51R0005	C	6	3.60	2
6	19T51R0006	C	6	3.60	2
7	19T51R0007	D	5	3.00	1
8	19T51R0008	C	6	3.60	2
9	19T51R0009	B	7	4.20	2
10	19T51R0010	C	6	3.60	2
11	19T51R0011	D	5	3.00	1
12	19T51R0012	D	5	3.00	1
13	19T51R0013	D	5	3.00	1
14	19T51R0014	F	0	0.00	0
15	19T51R0015	F	0	0.00	0
16	19T51R0017	F	0	0.00	0
17	19T51R0018	D	5	3.00	1
18	19T51R0019	F	0	0.00	0
19	19T51R0020	D	5	3.00	1
20	19T51R0021	C	6	3.60	2
21	19T51R0022	D	5	3.00	1
22	19T51R0023	D	5	3.00	1
23	19T51R0024	B	7	4.20	2
24	19T51R0025	B	7	4.20	2
25	19T51R0026	B	7	4.20	2
26	19T51R0027	B	7	4.20	2
27	19T51R0028	C	6	3.60	2
28	19T51R0029	D	5	3.00	1
29	19T51R0030	B	7	4.20	2
30	19T51R0031	C	6	3.60	2
31	19T51R0032	B	7	4.20	2
32	19T51R0033	B	7	4.20	2
33	19T51R0034	A	8	4.80	3
34	19T51R0035	C	6	3.60	2
35	19T51R0036	C	6	3.60	2
36	19T51R0037	C	6	3.60	2
37	19T51R0038	B	7	4.20	2
38	19T51R0039	C	6	3.60	2
39	19T51R0040	D	5	3.00	1
40	19T51R0041	B	7	4.20	2
41	19T51R0042	D	5	3.00	1
42	19T51R0043	C	6	3.60	2
43	19T51R0044	C	6	3.60	2



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44	19T51R0045	B	7	4.20	2
45	19T51R0046	C	6	3.60	2
46	19T51R0047	B	7	4.20	2
47	19T51R0048	D	5	3.00	1
48	19T51R0049	B	7	4.20	2
49	19T51R0050	D	5	3.00	1
50	19T51R0051	C	6	3.60	2
51	19T51R0052	C	6	3.60	2
52	19T51R0053	C	6	3.60	2
53	19T51R0054	D	5	3.00	1
54	19T51R0055	B	7	4.20	2
55	19T51R0056	C	6	3.60	2
56	19T51R0057	B	7	4.20	2
57	19T51R0058	B	7	4.20	2
58	19T51R0060	A	8	4.80	3
59	19T51R0061	C	6	3.60	2
60	19T51R0062	B	7	4.20	2
61	19T51R0063	B	7	4.20	2
62	19T51R0064	B	7	4.20	2
63	19T51R0065	B	7	4.20	2
64	19T51R0066	C	6	4.80	3
65	19T51R0067	B	7	3.60	2
66	19T51R0068	C	6	4.20	2
67	19T51R0069	B	7	3.60	2
68	19T51R0070	C	6	4.20	2
69	19T51R0071	B	7	3.60	2
70	19T51R0072	C	6	4.20	2
71	19T51R0074	C	6	3.60	2
72	19T51R0075	B	7	3.60	2
73	19T51R0076	B	7	4.20	2
74	19T51R0077	C	6	4.20	2
75	19T51R0078	C	6	3.60	2
76	19T51R0079	D	5	3.60	2
77	19T51R0080	C	6	3.00	1
78	19T51R0081	C	6	3.60	2
79	19T51R0082	B	7	3.60	2
80	19T51R0083	B	7	4.20	2
81	19T51R0084	D	5	4.20	2
82	19T51R0085	D	5	3.00	1
83	19T51R0086	B	7	3.00	1
84	19T51R0087	C	6	4.20	2
85	19T51R0088	D	5	3.60	2
86	19T51R0089	D	5	3.00	1
87	19T51R0090	C	6	3.00	1
88	19T51R0091	D	5	3.60	2
89	19T51R0092	F	0	3.00	1
90	19T51R0093	C	6	0.00	0
91	19T51R0094	D	5	3.60	2
92	19T51R0095	F	0	3.00	1
93	19T51R0096	C	6	0.00	0
94	19T51R0097	B	7	3.60	2



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95	19T51R0098	C	6	4.20	2
96	19T51R0099	F	0	3.60	2
97	19T51R00A1	D	5	0.00	0
98	19T51R00A2	C	6	3.00	1
99	19T51R00A3	C	6	3.60	2
100	18T51R0072	C	6	3.60	2

Attainment Level Summary	CO1 to CO6		
Maximum Attainment Level	3		
Cut-off Attainment Level(1.8-Passed)	69		
No.of Student \geq Cut-off	93		
% of students \geq cut-off	93		
Level Attained	3		
Level of Attained			
% of students	<50	50-79	\geq 80
Level	1	2	3

Danaku Rajel
Faculty



Kumar
Principal
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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14) Subject : Industrial Pharmacy- II Year & Sem : IV-I

Faculty: Mr. M Rajeswara Rao, and Mr. S Rama Krishna, Department of Pharmaceutics

Particulars	Overall Attainment					
	CO1	CO2	CO3	CO4	CO5	CO6
Internal Attainment Level (INT)	2	3	3	3	2	3
External Attainment Level (EXT)	3	3	3	3	3	3
TOTAL = INT * 0.25 + EXT * 0.75	2.75	3	3.00	3	2.75	3

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 CO1:Conduct more number of Guest Lectures to attain the target

To strengthen CO2:Conduct more tutorial classes to attain the target


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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Cherukupally(Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist)-531162
Regulation : PCI (R14) Subject : Industrial Pharmacy- II Year & Sem : IV-I

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

CO	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
CO 1	2.75	3	-	2	2	-	-	-	-	-	-	-	2	2
CO 2	3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO 3	3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO 4	3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO 5	2.75	3	-	2	2	-	-	-	-	-	-	-	2	2
CO 6	3	3	-	2	2	-	-	-	-	-	-	-	2	2
PO/PSO Weightage		18	0	12	12	0	0	0	0	0	0	0	12	12
PO/PSO Co-relation weightage all Cos(1-5)		52.5	0	35	35	0	0	0	0	0	0	0	35	35
PO/PSO Attainment Level		2.92	-	2.92	2.92	-	-	-	-	-	-	-	2.92	2.92


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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14), Subject : Instrumental Methods of Analysis (Practical) Year & Sem : IV - I

Faculty: Mrs. B Aruna and Mrs. Y Pavani Assistant Professor, Dept. of Pharmaceutical Analysis

Course Outcomes

CO705.1	Acquire the knowledge in interpretation of UV, IR, NMR, MS spectra's of simple organic compounds for structure.
CO705.2	Understand process, interpret the data obtained through experimentation and report the results as per regulatory requirements.
CO705.3	Acquire the knowledge in operation of HPLC, TLC, column chromatography and paper chromatography.
CO705.4	Understand the separation and identification of compounds by electrophoresis technique.

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO705.1	3	-	2	2	-	-	-	-	-	-	-	2	2
CO705.2	3	-	2	2	-	-	-	-	-	-	-	2	2
CO705.3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO705.4	3	-	2	2	-	-	-	-	-	-	-	2	2
	3	-	2	2	-	-	-	-	-	-	-	2	2

B. Aruna
Y. Pavani
Faculty




Principal

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14), Subject : Instrumental Methods of Analysis (Practical) Year & Sem : IV - I

Faculty: Mrs. B Aruna and Mrs. Y Pavani Assistant Professor, Dept. of Pharmaceutical Analysis

Calculation standards of attainment For Lab

	<i>1:Low (40%)</i>	<i>2:Medium (60%)</i>	<i>3: High (75%)</i>
Lab Internal (15 M)	6	9	11.25
Lab External (Grade-10)	4	6	7.5

B. Aruna
Y. Pavani
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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14), Subject :Instrumental Methods of Analysis (Practical) Year & Sem : IV-I

CGPA CALCULATION

Marks Range Theory	Marks Range Lab	Letter Grade	Level	Grade Point
≥ 90	≥ 90	O	Outstanding	10
≥ 80 to < 90	≥ 80 to < 90	S	Excellent	9
≥ 70 to < 80	≥ 70 to < 80	A	Very Good	8
≥ 60 to < 70	≥ 60 to < 70	B	Good	7
≥ 50 to < 60	≥ 50 to < 60	C	Fair	6
≥ 40 to < 50	≥ 40 to < 50	D	Satisfactory	5
< 40	< 40	F	Fail	0
			Absent	0

B. Aruna
Y. Pawan
Faculty



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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14), Subject : Instrumental Methods of Analysis (Practical) Year & Sem : IV - I

Calculation standards of attainment Faculty: Mrs. B Aruna and Mrs. Y Pavani Assistant Professor, Dept. of Pharmaceutical Analysis

	1:Low (40%)	2:Medium (60%)	3:High (75%)													
Lab Internal (15 M)	6	9	11.25													
Lab External (Grade-10)	4	6	7.5													
S.NO	REGD.NO	Lab Internal - I (Max : 40M)	Lab Internal - I (Reduced to 10M)	Continuous Mode (5 M)	Total Lab Internal - I (15 M)	Att. Level	Lab Internal - II (Max:40 M)	Lab Internal -II (Reduced to 10M)	Continuous Mode (5 M)	Total Lab Internal - II (Max:15 M)	Att. Level	Average Lab Internal (Max:15 M)	Att. Level	Lab External (Max: Grade - 10)	As per CGPA calculation-Lab External I (Max:Grade-10)	Att. Level
1	19T51R0001	35	9	5	14	3	30	8	5	13	3	14	3	A	8	3
2	19T51R0002	34	9	5	14	3	31	8	5	13	3	14	3	A	8	3
3	19T51R0003	33	8	5	13	3	34	9	5	14	3	14	3	A	8	3
4	19T51R0004	31	8	5	13	3	36	9	5	14	3	14	3	O	10	3
5	19T51R0005	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
6	19T51R0006	34	9	5	14	3	35	9	5	14	3	14	3	O	10	3
7	19T51R0007	0	0	5	5	0	34	9	5	14	3	10	2	B	7	2
8	19T51R0008	35	9	5	14	3	31	8	5	13	3	14	3	A	8	3
9	19T51R0009	34	9	5	14	3	34	9	5	14	3	14	3	A	8	3
10	19T51R0010	34	9	5	14	3	34	9	5	14	3	14	3	O	10	3
11	19T51R0011	33	8	5	13	3	34	9	5	13	3	13	3	A	8	3



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12	19T51R0012	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
13	19T51R0013	36	9	5	14	3	36	9	5	14	3	14	3	O	10	3
14	19T51R0014	36	9	5	14	3	28	7	5	12	3	13	3	O	10	3
15	19T51R0015	34	9	5	14	3	31	8	5	13	3	14	3	O	10	3
16	19T51R0017	32	8	5	13	3	29	7	5	12	3	13	3	A	8	3
17	19T51R0018	33	8	5	13	3	36	9	5	14	3	14	3	O	10	3
18	19T51R0019	32	8	5	13	3	33	8	5	13	3	13	3	A	8	3
19	19T51R0020	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
20	19T51R0021	33	8	5	13	3	36	9	5	14	3	14	3	O	10	3
21	19T51R0022	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
22	19T51R0023	36	9	5	14	3	36	9	5	14	3	14	3	O	10	3
23	19T51R0024	36	9	5	14	3	37	9	5	14	3	14	3	O	10	3
24	19T51R0025	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
25	19T51R0026	36	9	5	14	3	36	9	5	14	3	14	3	O	10	3
26	19T51R0027	34	9	5	14	3	32	8	5	13	3	14	3	O	10	3
27	19T51R0028	33	8	5	13	3	35	9	5	14	3	14	3	O	10	3
28	19T51R0029	36	9	5	14	3	32	8	5	13	3	14	3	O	10	3
29	19T51R0030	36	9	5	14	3	33	8	5	13	3	14	3	A	8	3
30	19T51R0031	33	8	5	13	3	33	8	5	13	3	14	3	A	8	3
31	19T51R0032	34	9	5	14	3	34	9	5	14	3	14	3	O	10	3
32	19T51R0033	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
33	19T51R0034	34	9	5	14	3	34	9	5	14	3	14	3	O	10	3
34	19T51R0035	32	8	5	13	3	32	8	5	13	3	13	3	A	8	3
35	19T51R0036	34	9	5	14	3	35	9	5	14	3	14	3	O	10	3
36	19T51R0037	32	8	5	13	3	33	8	5	13	3	13	3	A	8	3
37	19T51R0038	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
38	19T51R0039	33	8	5	13	3	34	9	5	14	3	14	3	O	10	3
39	19T51R0040	29	7	5	12	3	31	8	5	13	3	13	3	A	8	3
40	19T51R0041	34	9	5	14	3	35	9	5	14	3	14	3	O	10	3
41	19T51R0042	32	8	5	13	3	31	8	5	13	3	13	3	A	8	3
42	19T51R0043	0	0	5	5	0	0	0	5	5	0	5	0	C	6	2
43	19T51R0044	33	8	5	13	3	32	8	5	13	3	13	3	A	8	3
44	19T51R0045	35	9	5	14	3	34	9	5	14	3	14	3	O	10	3
45	19T51R0046	34	9	5	14	3	35	9	5	14	3	14	3	O	10	3
46	19T51R0047	36	9	5	14	3	33	8	5	13	3	14	3	O	10	3
47	19T51R0048	33	8	5	13	3	36	9	5	14	3	14	3	O	10	3
48	19T51R0049	34	9	5	14	3	36	9	5	14	3	14	3	O	10	3



49	19T51R0050	32	8	5	13	3	35	9	5	14	3	14	3	O	10	3
50	19T51R0051	33	8	5	13	3	32	8	5	13	3	13	3	A	8	3
51	19T51R0052	35	9	5	14	3	33	8	5	13	3	14	3	A	8	3
52	19T51R0053	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
53	19T51R0054	33	8	5	13	3	32	8	5	13	3	13	3	A	8	3
54	19T51R0055	34	9	5	14	3	35	9	5	14	3	14	3	O	10	3
55	19T51R0056	32	8	5	13	3	32	8	5	13	3	13	3	A	8	3
56	19T51R0057	36	9	5	14	3	37	9	5	14	3	14	3	O	10	3
57	19T51R0058	33	8	5	13	3	36	9	5	14	3	14	3	O	10	3
58	19T51R0060	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
59	19T51R0061	33	8	5	13	3	36	9	5	14	3	14	3	O	10	3
60	19T51R0062	36	9	5	14	3	36	9	5	14	3	14	3	O	10	3
61	19T51R0063	33	8	5	13	3	36	9	5	14	3	14	3	O	10	3
62	19T51R0064	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
63	19T51R0065	31	8	5	13	3	36	9	5	14	3	14	3	O	10	3
64	19T51R0066	32	8	5	13	3	32	8	5	13	3	13	3	A	8	3
65	19T51R0067	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
66	19T51R0068	33	8	5	13	3	33	8	5	13	3	13	3	A	8	3
67	19T51R0069	33	8	5	13	3	32	8	5	13	3	13	3	A	8	3
68	19T51R0070	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
69	19T51R0071	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
70	19T51R0072	32	8	5	13	3	33	8	5	13	3	13	3	A	8	3
71	19T51R0074	32	8	5	13	3	31	8	5	13	3	13	3	A	8	3
72	19T51R0075	33	8	5	13	3	34	9	5	14	3	14	3	O	10	3
73	19T51R0076	35	9	5	14	3	35	9	5	14	3	14	3	O	10	3
74	19T51R0077	36	9	5	14	3	36	9	5	14	3	14	3	O	10	3
75	19T51R0078	36	9	5	14	3	36	9	5	14	3	14	3	O	10	3
76	19T51R0079	32	8	5	13	3	33	8	5	13	3	13	3	A	8	3
77	19T51R0080	36	9	5	14	3	36	9	5	14	3	14	3	O	10	3
78	19T51R0081	36	9	5	14	3	33	8	5	13	3	14	3	O	10	3
79	19T51R0082	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
80	19T51R0083	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
81	19T51R0084	36	9	5	14	3	36	9	5	14	3	14	3	O	10	3
82	19T51R0085	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
83	19T51R0086	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
84	19T51R0087	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
85	19T51R0088	32	8	5	13	3	35	9	5	13	3	13	3	A	8	3



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86	19T51R0089	34	9	5	14	3	34	9	5	14	3	14	3	O	10	3
87	19T51R0090	35	9	5	14	3	35	9	5	14	3	14	3	O	10	3
88	19T51R0091	32	8	5	13	3	34	9	5	14	3	14	3	A	8	3
89	19T51R0092	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
90	19T51R0093	36	9	5	14	3	36	9	5	14	3	14	3	O	10	3
91	19T51R0094	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
92	19T51R0095	32	8	5	13	3	33	8	5	13	3	13	3	A	8	3
93	19T51R0096	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
94	19T51R0097	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
95	19T51R0098	35	9	5	14	3	36	9	5	14	3	14	3	O	10	3
96	19T51R0099	32	8	5	13	3	34	9	5	14	3	14	3	O	10	3
97	19T51R00A1	36	9	5	14	3	35	9	5	14	3	14	3	O	10	3
98	19T51R00A2	36	9	5	14	3	33	8	5	13	3	14	3	O	10	3
99	19T51R00A3	34	9	5	14	3	35	9	5	14	3	14	3	O	10	3
100	18T51R0072	32	8	5	13	3	32	8	5	13	3	13	3	A	8	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	97	96
% of students >=cut-off	97	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

Faculty



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Avanthi Institute of Pharmaceutical Sciences
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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Dept of B Pharm, Regulation : PCI (R14)

Subject : Instrumental Methods of Analysis (Practical) Year & Sem : IV - I

Faculty: Mrs. B Aruna and Mrs. Y Pavani Assistant Professor, Dept. of Pharmaceutical Analysis

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	

B. Aruna
Y. Pavani
Faculty



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Vizianagaram Dt., - 531162



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14), Subject : Instrumental Methods of Analysis (Practical) Year & Sem : IV - I

Faculty: Mrs. B Aruna and Mrs. Y Pavani Assistant Professor, Dept. of Pharmaceutical Analysis

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

CO	CO Attainment Level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO705.1	3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO705.2	3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO705.3	3	3	-	2	2	-	-	-	-	-	-	-	2	2
CO705.4	3	3	-	2	2	-	-	-	-	-	-	-	2	2
PO/PSO Weightage		12	0	8	8	0	0	0	0	0	0	0	8	8
PO/PSO Co-relation weightage all Cos(1-6)		36	0	24	24	0	0	0	0	0	0	0	24	24
PO/PSO Attainment Level		3.00	-	3.00	3.00	-	-	-	-	-	-	-	3.00	3.00

B. Aruna
Y. Pavani
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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14) Subject : Remedial Mathematics

Year & Sem : I-I

Faculty: Mr. A Seshu, Department of Pharmacy

Course Outcomes

CO106a.1	Know Basic mathematical operations													
CO106a.2	Know trigonometry mostly used in any sciences.													
CO106a.3	Know Basic calculus which is used in analytical study of their life sciences applications													
CO106a.4	Know the basic trigonometric functions from first principles.													
CO106a.5	Draw lines, finding the equations for the purpose of relational study													
CO106a.6	Know Some advanced calculations in Research or Project works													
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	
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	-	
CO106a.6	2	-	3	-	-	-	-	-	-	-	2	2	-	
	2	-	3	-	-	-	-	-	1	-	2	2	-	

Seshu

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Subject : Remedial Mathematics

Year & Sem : I-I

Faculty: Mr. A Seshu, Department of Pharmacy

Calculation Standards of Attainment

	1:Low (40%)	2:Medium (60%)	3: High (75%)
Descriptive (30M)	12	18	22.5
Continuous Mode (10 M)	2	3	3.75

seshu

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Cherukupally (V), Bhogapuram Mandala
Vizianagaram Dt., - 531162



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14) Subject : Remedial Mathematics

Year & Sem : I-I (MID-I)

Calculation standards of attainment

	1:Low (40%)	2:Medium (60%)	3:High (75%)																
Descriptive (30 M)	12	18	22.5																
Continuous Mode(5 M)	2	3	3.75																
S No	Roll No	CO1 (10 M)		CO1 (10 M)		CO2 (10 M)		CO2 (10 M)		CO3 (10 M)		Total Marks (30M)	Final marks (10 M)	Continuous Mode		Final mid I marks (15 M)	Avg(S/O/C M) Attainment Level(CO1)	Avg(S/O/C M) Attainment Level(CO2)	Avg(S/O/C M) Attainment Level(CO3)
		Q1	Att. level	Q2	Att. level	Q3	Att. Level	Q4	Att. Level	Q5	Att. Level			CM (5 M) (CO1/CO2/CO3)	Att. Level				
1	19T51R0001	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	2.00	3.00	1.50
2	19T51R0002	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	2.00	3.00	1.50
3	19T51R0003	2	0	0	0	3	0	5	1	0	0	10	3	5	3	8	1.00	1.33	1.50
4	19T51R0004	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	1.50
5	19T51R0005	10	3	0	0	9	3	0	0	9	3	28	9	5	3	14	2.00	2.00	3.00
6	19T51R0006	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	2.00	3.00	1.50
7	19T51R0007	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.00	1.00	1.50
8	19T51R0008	9	3	0	0	9	3	0	0	9	3	27	9	5	3	14	2.00	2.00	3.00
9	19T51R0009	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	2.00	3.00	1.50
10	19T51R0010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
11	19T51R0011	10	3	0	0	9	3	0	0	9	3	28	9	5	3	14	2.00	2.00	3.00
12	19T51R0012	10	3	0	0	9	3	0	0	9	3	28	9	5	3	14	2.00	2.00	3.00
13	19T51R0013	10	3	0	0	9	3	0	0	9	3	29	10	5	3	15	2.00	3.00	1.50
14	19T51R0014	5	1	0	0	1	0	0	0	1	0	15	5	5	3	15	2.00	3.00	1.50



15	19T51R0015	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
16	19T51R0016	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	2.00	3.00	1.50
17	19T51R0017	9	3	0	0	8	3	0	0	8	3	25	8	5	3	13	2.00	2.00	3.00
18	19T51R0018	7	2	0	0	0	0	7	2	7	2	21	7	5	3	12	1.67	1.67	2.50
19	19T51R0019	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
20	19T51R0020	7	2	0	0	6	2	6	2	0	0	19	6	5	3	11	1.67	2.33	1.50
21	19T51R0021	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	2.00	3.00	1.50
22	19T51R0022	9	3	0	0	8	3	0	0	8	3	25	8	5	3	13	2.00	2.00	3.00
23	19T51R0023	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	1.50
24	19T51R0024	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
25	19T51R0025	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
26	19T51R0026	5	1	0	0	5	1	5	1	0	0	15	5	5	3	10	1.33	1.67	1.50
27	19T51R0027	9	3	0	0	9	3	0	0	9	3	27	9	5	3	14	2.00	2.00	3.00
28	19T51R0028	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	2.00	3.00	1.50
29	19T51R0030	10	3	0	0	10	3	9	3	0	0	29	10	5	3	13	2.00	3.00	1.50
30	19T51R0031	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	1.50
31	19T51R0032	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	1.50
32	19T51R0033	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
33	19T51R0034	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	1.50
34	19T51R0036	7	2	0	0	0	0	8	3	7	2	23	8	5	3	15	1.67	2.00	2.50
35	19T51R0037	10	3	0	0	10	3	9	3	0	0	29	10	5	3	13	2.00	3.00	1.50
36	19T51R0038	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	1.50
37	19T51R0039	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	1.50
38	19T51R0040	9	3	0	0	8	3	0	0	8	3	25	8	5	3	15	2.00	2.00	3.00
39	19T51R0041	10	3	10	3	0	0	10	3	0	0	30	10	5	3	13	3.00	2.00	1.50
40	19T51R0042	3	0	0	0	3	0	0	0	3	0	9	3	5	3	15	1.00	1.00	1.50
41	19T51R0043	8	3	0	0	8	3	8	3	0	0	24	8	5	3	8	2.00	3.00	1.50
42	19T51R0044	10	3	0	0	10	3	9	3	0	0	29	10	5	3	13	2.00	3.00	1.50
43	19T51R0045	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	1.50
44	19T51R0046	9	3	0	0	9	3	0	0	9	3	27	9	5	3	15	2.00	2.00	3.00
45	19T51R0047	5	1	0	0	5	1	5	1	0	0	15	5	5	3	14	1.33	1.67	1.50
46	19T51R0048	10	3	10	3	0	0	10	3	0	0	30	10	5	3	10	3.00	2.00	1.50
47	19T51R0049	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
48	19T51R0050	3	0	0	0	3	0	0	0	3	0	9	3	5	3	15	1.00	1.00	1.50
49	19T51R0051	10	3	0	0	8	3	0	0	8	3	26	9	5	3	8	2.00	2.00	3.00
50	19T51R0052	10	3	0	0	10	3	9	3	0	0	29	10	5	3	14	2.00	3.00	1.50
51	19T51R0053	9	3	0	0	9	3	0	0	9	3	27	9	5	3	15	2.00	2.00	3.00
52	19T51R0055	9	3	0	0	9	3	0	0	9	3	27	9	5	3	14	2.00	2.00	3.00
53	19T51R0056	7	2	0	0	7	2	7	2	7	2	22	7	5	3	14	1.67	2.00	2.50
54	19T51R0057	10	3	0	0	9	3	0	0	9	3	28	9	5	3	12	2.00	2.00	3.00



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55	19T51R0058	8	3	0	0	8	3	8	3	0	0	24	8	5	3	14	2.00	3.00	1.50
56	19T51R0059	7	2	0	0	0	0	7	2	7	2	21	7	5	3	13	1.67	1.67	2.50
57	19T51R0060	10	3	0	0	10	3	9	3	0	0	29	10	5	3	12	2.00	3.00	1.50
58	19T51R0061	10	3	0	0	9	3	0	0	9	3	28	9	5	3	15	2.00	2.00	3.00
59	19T51R0062	10	3	0	0	10	3	9	3	0	0	29	10	5	3	14	2.00	3.00	1.50
60	19T51R0063	10	3	0	0	8	3	0	0	8	3	26	9	5	3	15	2.00	2.00	3.00
61	19T51R0064	10	3	0	0	10	3	9	3	0	0	29	10	5	3	14	2.00	3.00	1.50
62	19T51R0065	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
63	19T51R0066	9	3	0	0	9	3	0	0	9	3	27	9	5	3	15	2.00	2.00	3.00
64	19T51R0067	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
65	19T51R0068	9	3	0	0	8	3	0	0	8	3	25	8	5	3	14	2.00	2.00	3.00
66	19T51R0069	10	3	0	0	8	3	0	0	8	3	26	9	5	3	15	2.00	2.00	3.00
67	19T51R0070	9	3	0	0	8	3	0	0	8	3	25	8	5	3	13	2.00	2.00	3.00
68	19T51R0071	10	3	10	3	0	0	10	3	0	0	30	10	5	3	0	3.00	2.00	1.50
69	19T51R0072	7	2	0	0	0	0	8	3	7	2	22	7	5	3	13	1.67	2.00	2.50
70	19T51R0074	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
71	19T51R0075	10	3	0	0	8	3	0	0	8	3	26	9	5	3	12	2.00	2.00	3.00
72	19T51R0076	9	3	0	0	9	3	0	0	9	3	27	9	5	3	12	2.00	2.00	3.00
73	19T51R0077	10	3	0	0	9	3	0	0	9	3	28	9	5	3	15	2.00	2.00	3.00
74	19T51R0078	10	3	0	0	10	3	9	3	0	0	29	10	5	3	14	2.00	3.00	1.50
75	19T51R0079	7	2	0	0	7	2	6	2	0	0	20	7	5	3	14	1.67	2.33	1.50
76	19T51R0080	8	3	0	0	8	3	8	3	0	0	24	8	5	3	14	2.00	3.00	1.50
77	19T51R0081	7	2	0	0	0	0	7	2	7	2	21	7	5	3	15	1.67	1.67	2.50
78	19T51R0082	10	3	10	3	0	0	10	3	0	0	30	10	5	3	12	3.00	2.00	1.50
79	19T51R0083	10	3	10	3	0	0	10	3	0	0	30	10	5	3	13	3.00	2.00	1.50
80	19T51R0084	10	3	0	0	10	3	9	3	0	0	29	10	5	3	12	2.00	3.00	1.50
81	19T51R0085	10	3	0	0	9	3	0	0	9	3	28	9	5	3	15	2.00	2.00	3.00
82	19T51R0086	10	3	0	0	9	3	0	0	9	3	28	9	5	3	15	2.00	2.00	3.00
83	19T51R0087	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
84	19T51R0088	3	0	0	0	3	0	0	0	3	0	9	3	5	3	14	1.00	1.00	1.50
85	19T51R0089	10	3	0	0	9	3	0	0	9	3	28	9	5	3	14	2.00	2.00	3.00
86	19T51R0090	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
87	19T51R0092	10	3	0	0	9	3	0	0	9	3	28	9	5	3	8	2.00	2.00	3.00
88	19T51R0093	10	3	0	0	9	3	0	0	9	3	28	9	5	3	14	2.00	2.00	3.00
89	19T51R0094	9	3	0	0	9	3	0	0	9	3	27	9	5	3	15	2.00	2.00	3.00
90	19T51R0095	7	2	0	0	0	0	8	3	7	2	22	7	5	3	14	1.67	2.00	2.50
91	19T51R0096	7	2	0	0	7	2	0	0	7	2	20	7	5	3	14	1.67	2.33	1.50
92	19T51R0097	10	3	0	0	8	3	0	0	8	3	26	9	5	3	14	2.00	2.00	3.00
93	19T51R0098	10	3	10	3	0	0	10	3	0	0	30	10	5	3	12	3.00	2.00	1.50



94	19T51R0099	8	3	0	0	8	3	8	3	0	0	24	8	5	3	12	2.00	3.00	1.50
95	19T51R0101	10	3	10	3	0	0	10	3	0	0	30	10	5	3	14	3.00	2.00	1.50
96	19T51R0102	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	2.00	3.00	1.50
97	19T51R0103	10	3	10	3	0	0	10	3	0	0	30	10	5	3	13	3.00	2.00	1.50

Attainment Level Summary	CO1	CO2	CO3
Maximum Attainment Level	3	3	3
Cut-off Attainment Level (60%)	1.8	1.8	1.8
No. of Student >=Cut-off	56	62	28
% of students >=cut-off	58	64	28.866
Level Attained	1	2	1
Level of Attained			
% of students	<60	60-79	>=80
Level	1	2	3

shesh

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Avanthi Institute of Pharmaceutical Sciences

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Vizianagaram Dt., - 531162



ESTD : 2005

AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14)

Subject : Remedial Mathematics

Year & Sem : I-I (MID-II)

Calculation standards of attainment

S No	Roll No	CO4 (10 M)		CO5 (10 M)		CO5 (10 M)		CO6 (10 M)		CO6 (10 M)		Total Marks (30M)	Final marks (10 M)	Continuous Mode		Final mid II marks (15 M)	Avg(S/O/C M) Attainment Level(CO4)	Avg(S/O/C M) Attainment Level(CO5)	Avg(S/O/C M) Attainment Level(CO6)
		Q1	Att. level	Q2	Att. level	Q3	Att. Level	Q4	Att. Level	Q5	Att. Level			CM (5 M) (CO4/CO5/CO6)	Att. Level				
1	19T51R0001	7	2	0	0	0	0	8	3	7	2	23	8	5	3	13	2.50	1.00	2.67
2	19T51R0002	7	2	0	0	6	2	6	2	0	0	19	6	5	3	11	2.50	1.67	1.67
3	19T51R0003	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
4	19T51R0004	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
5	19T51R0005	7	2	0	0	6	2	6	2	0	0	19	6	5	3	11	2.50	1.67	1.67
6	19T51R0006	7	2	0	0	0	0	8	3	7	2	22	7	5	3	12	2.50	1.00	2.67
7	19T51R0007	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
8	19T51R0008	7	2	0	0	0	0	7	2	7	2	21	7	5	3	12	2.50	1.00	2.33
9	19T51R0009	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	3.00	2.00	2.00
10	19T51R0010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
11	19T51R0011	3	0	0	0	0	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
12	19T51R0012	10	3	0	0	0	0	0	0	8	3	26	9	5	3	14	3.00	2.00	2.00
13	19T51R0013	8	3	0	0	0	0	0	0	3	0	24	8	5	3	13	2.00	1.00	2.00
14	19T51R0014	5	1	3	0	0	0	0	0	0	0	11	4	5	3	10	2.00	1.00	1.00



15	19T51R0015	7	2	0	0	7	2	6	2	0	0	20	7	5	3	12	2.50	1.67	1.67
16	19T51R0016	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
17	19T51R0017	7	2	0	0	0	0	8	3	7	2	23	8	5	3	13	2.50	1.00	2.67
18	19T51R0018	6	2	7	2	0	0	4	1	0	0	17	6	5	3	11	2.50	1.67	1.33
19	19T51R0019	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
20	19T51R0020	7	2	0	0	0	0	8	3	7	2	22	7	5	3	12	2.50	1.00	2.67
21	19T51R0021	5	1	0	0	5	1	5	1	0	0	15	5	5	3	10	2.00	1.33	1.33
22	19T51R0022	5	1	0	0	5	1	5	1	0	0	15	5	5	3	10	2.00	1.33	1.33
23	19T51R0023	7	2	0	0	0	0	8	3	7	2	23	8	5	3	13	2.50	1.00	2.67
24	19T51R0024	7	2	0	0	7	2	6	2	0	0	20	7	5	3	12	2.50	1.67	1.67
25	19T51R0025	6	2	7	2	0	0	4	1	0	0	17	6	5	3	11	2.50	1.67	1.33
26	19T51R0026	7	2	0	0	0	0	7	2	7	2	21	7	5	3	12	2.50	1.00	2.33
27	19T51R0027	6	2	7	2	0	0	4	1	0	0	17	6	5	3	11	2.50	1.67	1.33
28	19T51R0028	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	3.00	2.00	2.00
29	19T51R0030	7	2	0	0	0	0	7	2	7	2	21	7	5	3	12	2.50	1.00	2.33
30	19T51R0031	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
31	19T51R0032	5	1	6	2	7	2	0	0	0	0	18	6	5	3	11	2.00	2.33	1.00
32	19T51R0033	7	2	0	0	7	2	6	2	0	0	20	7	5	3	12	2.50	1.67	1.67
33	19T51R0034	6	2	7	2	0	0	4	1	0	0	17	6	5	3	11	2.50	1.67	1.33
34	19T51R0036	7	2	0	0	0	0	8	3	7	2	23	8	5	3	13	2.50	1.00	2.67
35	19T51R0037	7	2	0	0	0	0	8	3	7	2	23	8	5	3	13	2.50	1.00	2.67
36	19T51R0038	7	2	0	0	0	0	7	2	7	2	21	7	5	1	12	1.50	0.33	1.67
37	19T51R0039	5	1	6	2	4	1	0	0	0	0	16	5	5	3	10	2.00	2.00	1.00
38	19T51R0040	7	2	0	0	0	0	8	3	7	2	22	7	5	3	12	2.50	1.00	2.67
39	19T51R0041	10	3	0	0	9	3	0	0	9	3	28	9	5	3	14	3.00	2.00	2.00
40	19T51R0042	5	1	0	0	5	1	3	0	0	0	13	4	5	3	9	2.00	1.33	1.00
41	19T51R0043	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
42	19T51R0044	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
43	19T51R0045	10	3	0	0	8	3	0	0	8	3	26	9	5	3	14	3.00	2.00	2.00
44	19T51R0046	9	3	0	0	8	3	0	0	8	3	25	8	5	3	13	3.00	2.00	2.00
45	19T51R0047	7	2	0	0	0	0	7	2	7	2	21	7	5	3	12	2.50	1.00	2.33
46	19T51R0048	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
47	19T51R0049	7	2	0	0	7	2	6	2	0	0	20	7	5	3	12	2.50	1.67	1.67
48	19T51R0050	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
49	19T51R0051	7	2	0	0	0	0	7	2	7	2	21	7	5	3	12	2.50	1.00	2.33
50	19T51R0052	7	2	0	0	0	0	8	3	7	2	22	7	5	1	12	1.50	0.33	2.00
51	19T51R0053	9	3	0	0	8	3	0	0	8	3	25	8	5	3	13	3.00	2.00	2.00
52	19T51R0055	8	3	0	0	8	3	0	0	8	3	24	8	5	1	13	2.00	2.33	1.33
53	19T51R0056	5	1	6	2	4	1	0	0	0	0	16	5	5	3	10	2.00	2.00	1.00
54	19T51R0057	9	3	0	0	8	3	0	0	8	3	25	8	5	3	13	3.00	2.00	2.00



55	19T51R0058	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	3.00	2.00	2.00
56	19T51R0059	7	2	0	0	0	0	7	2	7	2	21	7	5	3	12	2.50	1.00	2.33
57	19T51R0060	5	1	6	2	4	1	0	0	0	0	16	5	5	3	10	2.00	2.00	1.00
58	19T51R0061	7	2	0	0	0	0	7	2	7	2	21	7	5	3	12	2.50	1.00	2.33
59	19T51R0062	7	2	0	0	0	0	8	3	7	2	22	7	5	3	12	2.50	1.00	2.67
60	19T51R0063	5	1	5	1	2	0	0	0	0	0	12	4	5	3	9	2.00	1.33	1.00
61	19T51R0064	5	1	6	2	4	1	0	0	0	0	16	5	5	3	10	2.00	2.00	1.00
62	19T51R0065	6	2	7	2	0	0	4	1	0	0	17	6	5	3	11	2.50	1.67	1.33
63	19T51R0066	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
64	19T51R0067	6	2	7	2	0	0	4	1	0	0	17	6	5	3	11	2.50	1.67	1.33
65	19T51R0068	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
66	19T51R0069	7	2	0	0	6	2	6	2	0	0	19	6	5	3	11	2.50	1.67	1.67
67	19T51R0070	5	1	5	1	4	1	0	0	0	0	14	5	5	3	10	2.00	1.67	1.00
68	19T51R0071	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	3.00	2.00	2.00
69	19T51R0072	9	3	0	0	9	3	0	0	9	3	27	7	5	3	12	3.00	2.00	2.00
70	19T51R0074	10	3	0	0	10	3	9	3	0	0	29	10	5	1	15	2.00	1.33	1.33
71	19T51R0075	7	2	0	0	0	0	8	3	7	2	22	7	5	3	12	2.50	1.00	2.67
72	19T51R0076	7	2	0	0	7	2	6	2	0	0	20	7	5	3	12	2.50	1.67	1.67
73	19T51R0077	10	3	0	0	8	3	0	0	8	3	26	9	5	3	14	3.00	2.00	2.00
74	19T51R0078	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
75	19T51R0079	7	2	0	0	0	0	8	3	7	2	22	7	5	3	12	2.50	1.00	2.67
76	19T51R0080	10	3	0	0	8	3	0	0	8	3	26	9	5	3	14	3.00	2.00	2.00
77	19T51R0081	10	3	0	0	8	3	0	0	8	3	26	9	5	3	14	3.00	2.00	2.00
78	19T51R0082	10	3	0	0	9	3	0	0	9	3	28	9	5	3	14	3.00	2.00	2.00
79	19T51R0083	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
80	19T51R0084	9	3	0	0	8	3	0	0	8	3	25	8	5	3	13	3.00	2.00	2.00
81	19T51R0085	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
82	19T51R0086	6	2	7	2	0	0	4	1	0	0	17	6	5	3	11	2.50	1.67	1.33
83	19T51R0087	8	3	0	0	8	3	8	3	0	0	24	8	5	3	13	3.00	2.00	2.00
84	19T51R0088	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
85	19T51R0089	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
86	19T51R0090	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	2.00
87	19T51R0092	10	3	0	0	10	3	9	3	0	0	29	10	5	3	15	3.00	2.00	2.00
88	19T51R0093	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	2.00
89	19T51R0094	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	2.00
90	19T51R0095	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
91	19T51R0096	7	2	0	0	0	0	7	2	7	2	22	7	5	3	12	2.50	1.00	2.67
92	19T51R0097	10	3	0	0	10	3	0	0	0	0	29	10	5	3	15	3.00	2.00	2.00
93	19T51R0098	10	3	0	0	10	3	0	0	0	0	29	10	5	3	15	3.00	2.00	2.00



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94	19T51R0099	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
95	19T51R0101	3	0	0	0	3	0	0	0	3	0	9	3	5	3	8	1.50	1.00	1.00
96	19T51R0102	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	2.00
97	19T51R0103	10	3	10	3	0	0	10	3	0	0	30	10	5	3	15	3.00	2.00	2.00

Attainment Level Summary	CO4	CO5	CO6
Maximum Attainment Level	3	3	3
Cut-off Attainment Level (60%)	1.8	1.8	1.8
No. of Student \geq Cut-off	56	28	37
% of students \geq cut-off	58	29	38.144
Level Attained	1	1	1
Level of Attained			
% of students	<60	60-79	\geq 80
Level	1	2	3

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Vizianagaram Dt., - 531162



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

ESTD : 2005

Regulation : PCI (R14), Subject : Remedial Mathematics

Year & Sem : I-I

Faculty: Mr. Seshu, Dept. of Pharmacy

S NO	Roll No	Grade	Grade Weightage	60% of External	Att. Level
1	19T51R0001	A	8	4.80	3
2	19T51R0002	O	10	6.00	3
3	19T51R0003	A	8	4.80	3
4	19T51R0004	A	8	4.80	3
5	19T51R0005	O	10	6.00	3
6	19T51R0006	O	10	6.00	3
7	19T51R0007	A	8	4.80	3
8	19T51R0008	O	10	6.00	3
9	19T51R0009	O	10	6.00	3
10	19T51R0010	AB	0	0.00	0
11	19T51R0011	A	8	4.80	3
12	19T51R0012	O	10	6.00	3
13	19T51R0013	O	10	6.00	3
14	19T51R0014	A	8	4.80	3
15	19T51R0015	O	10	6.00	3
16	19T51R0016	A	8	4.80	3
17	19T51R0017	O	10	6.00	3
18	19T51R0018	A	8	4.80	3
19	19T51R0019	O	10	6.00	3
20	19T51R0020	A	8	4.80	3
21	19T51R0021	O	10	6.00	3
22	19T51R0022	A	8	4.80	3
23	19T51R0023	O	10	6.00	3
24	19T51R0024	O	10	6.00	3
25	19T51R0025	O	10	6.00	3
26	19T51R0026	A	8	4.80	3
27	19T51R0027	O	10	6.00	3
28	19T51R0028	O	10	6.00	3
29	19T51R0030	O	10	6.00	3
30	19T51R0031	A	8	4.80	3
31	19T51R0032	O	10	6.00	3
32	19T51R0033	O	10	6.00	3
33	19T51R0034	O	10	6.00	3
34	19T51R0036	O	10	6.00	3
35	19T51R0037	O	10	6.00	3
36	19T51R0038	O	10	6.00	3
37	19T51R0039	O	10	6.00	3
38	19T51R0040	O	10	6.00	3
39	19T51R0041	O	10	6.00	3
40	19T51R0042	A	8	4.80	3
41	19T51R0043	A	8	4.80	3
42	19T51R0044	A	8	4.80	3
43	19T51R0045	O	10	6.00	3



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44	19T51R0046	O	10	6.00	3
45	19T51R0047	A	8	4.80	3
46	19T51R0048	A	8	4.80	3
47	19T51R0049	O	10	6.00	3
48	19T51R0050	A	8	4.80	3
49	19T51R0051	O	10	6.00	3
50	19T51R0052	O	10	6.00	3
51	19T51R0053	O	10	6.00	3
52	19T51R0055	O	10	6.00	3
53	19T51R0056	A	8	4.80	3
54	19T51R0057	O	10	6.00	3
55	19T51R0058	O	10	6.00	3
56	19T51R0059	O	10	6.00	3
57	19T51R0060	O	10	6.00	3
58	19T51R0061	O	10	6.00	3
59	19T51R0062	O	10	6.00	3
60	19T51R0063	O	10	6.00	3
61	19T51R0064	O	10	6.00	3
62	19T51R0065	O	10	6.00	3
63	19T51R0066	A	8	4.80	3
64	19T51R0067	O	10	6.00	3
65	19T51R0068	A	8	4.80	3
66	19T51R0069	O	10	6.00	3
67	19T51R0070	O	10	6.00	3
68	19T51R0071	O	10	6.00	3
69	19T51R0072	O	10	6.00	3
70	19T51R0074	O	10	6.00	3
71	19T51R0075	O	10	6.00	3
72	19T51R0076	O	10	6.00	3
73	19T51R0077	O	10	6.00	3
74	19T51R0078	O	10	6.00	3
75	19T51R0079	A	8	4.80	3
76	19T51R0080	O	10	6.00	3
77	19T51R0081	O	10	6.00	3
78	19T51R0082	O	10	6.00	3
79	19T51R0083	A	8	4.80	3
80	19T51R0084	O	10	6.00	3
81	19T51R0085	A	8	4.80	3
82	19T51R0086	O	10	6.00	3
83	19T51R0087	O	10	6.00	3
84	19T51R0088	A	8	4.80	3
85	19T51R0089	A	8	4.80	3
86	19T51R0090	O	10	6.00	3
87	19T51R0092	O	10	6.00	3
88	19T51R0093	O	10	6.00	3
89	19T51R0094	O	10	6.00	3
90	19T51R0095	A	8	4.80	3
91	19T51R0096	O	10	6.00	3
92	19T51R0097	O	10	6.00	3
93	19T51R0098	O	10	6.00	3
94	19T51R0099	O	10	6.00	3
95	19T51R0101	A	8	4.80	3



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96	19T51R0102	O	10	6.00	3
97	19T51R0103	O	10	6.00	3

Attainment Level Summary	CO1 to CO6		
Maximum Attainment Level	3		
Cut-off Attainment Level(1.8-Passed)	96		
No.of Student \geq Cut-off	96		
% of students \geq cut-off	99		
Level Attained	3		
Level of Attained			
% of students	<50	50-79	\geq 80
Level	1	2	3

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

Cherukupally(Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist) - 53116

ESTD : 2005

Regulation : PCI (R14)

Subject : Remedial Mathematics

Year & Sem : I-I

Faculty: Mr. Seshu, Dept. of Pharmacy

Particulars	Overall Attainment					
	CO1	CO2	CO3	CO4	CO5	CO6
Internal Attainment Level (INT)	1	2	1	1	1	1
External Attainment Level (EXT)	3	3	3	3	3	3
TOTAL = INT * 0.25 + EXT * 0.75	2.5	2.75	2.50	2.5	2.5	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 CO1:Conduct more number of assignments and practice session to attain the target

To strengthen CO2:Conduct more tutorial classes to attain the target

To strengthen CO3:Conduct more number of assignments and practice session to attain the target

To strengthen CO4:Conduct more tutorial classes to attain the target

To strengthen CO5:Conduct more number of assignments and practice session to attain the target

To strengthen CO6:Conduct more tutorial classes to attain the target

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**AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES**

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

Regulation : PCI (R14)

Subject : Remedial Mathematics

Year & Sem : I-I

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	
CO106a.1	2.5	-	-	3	-	-	-	-	-	1	-	2	-	-
CO106a.2	2.75	-	-	3	-	-	-	-	-	-	-	2	2	-
CO106a.3	2.5	2	-	3	-	-	-	-	-	-	-	2	2	-
CO106a.4	2.5	2	-	3	-	-	-	-	-	-	-	2	2	-
CO106a.5	2.5	2	-	3	-	-	-	-	-	-	-	2	2	-
CO106a.6	2.5	2	-	3	-	-	-	-	-	-	-	2	2	-
PO/PSO Weightage	8	0	18	0	0	0	0	0	0	1	0	18	10	0
PO/PSO Co-relation weightage all Cos(1-5)	20	0	45.8	0	0	0	0	0	0	2.5	0	30.5	25.5	0
PO/PSO Attainment Level	2.50	-	2.54	-	-	-	-	-	-	2.50	-	1.69	2.55	-

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14), Subject : Communication Skills Practical Year & Sem : I - I

Faculty: Mrs.K Subha Lakshmi, Assistant Professor

Course Outcomes

CO111.1	Learn and understand basic communication skills needed for effective for working of pharmacist in areas of pharmaceutical operations.
CO111.2	Effective in verbal and nonverbal pronunciation.
CO111.3	Develop communication skills effectively to manage team as team lead & handling the interview.
CO111.4	Presenting the advanced learning skills effectively with aid of learning.

CO-PO Mapping

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


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Cherukupally (V), Bhogapuram Mandal
Vizianagaram Dt., - 531162



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Regulation : PCI (R14), Subject : Communication Skills Practical Year & Sem : I - I

Faculty: Mrs.K Subha Lakshmi, Assistant Professor

Calculation standards of attainment for Lab

	1:Low (40%)	2:Medium (60%)	3: High (75%)
Lab Internal (15 M)	4	6	7.5
Lab External (Grade-10)	4	6	7.5

Sub
Faculty

[Signature]
Principal

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Vizianagaram Dt., - 531162





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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

Regulation : PCI (R14), Subject : Communication Skills Practical

Year & Sem : I - I

CGPA CALCULATION

Marks Range Theory	Marks Range Lab	Letter Grade	Level	Grade Point
≥ 90	≥ 90	O	Outstanding	10
≥ 80 to < 90	≥ 80 to < 90	S	Excellent	9
≥ 70 to < 80	≥ 70 to < 80	A	Very Good	8
≥ 60 to < 70	≥ 60 to < 70	B	Good	7
≥ 50 to < 60	≥ 50 to < 60	C	Fair	6
≥ 40 to < 50	≥ 40 to < 50	D	Satisfactory	5
< 40	< 40	F	Fail	0
			Absent	0

Faculty

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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


Regulation : PCI (R14), Subject : Communication Skills Year & Sem : I - I

Calculation standards of attainment

Faculty : Faculty: Mrs.K Subha Lakshmi, Assistant Professor

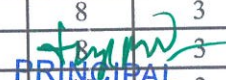
Calculation standards of attainment				Faculty : Faculty: Mrs.K Subha Lakshmi, Assistant Professor													
	1:Low (40%)	2:Medium (60%)	3:High (75%)														
Lab Internal (10 M)	4	6	7.5														
Lab External (Grade-10)	4	6	7.5														
S.NO	REGD.NO	Lab Internal - I (Max : 40 M)	Lab Internal - I (Reduced to 5 M)	Continuous Mode (5 M)	Total Lab Internal - I (10 M)	Att. Level	Lab Internal -II (Max: 40M)	Lab Internal -II (Reduced to 5 M)	Continuous Mode (5 M)	Total Lab Internal -II (Max:10 M)	Att. Level	Average Lab Internal (Max: 10M)	Att. Level	Lab External (Max: Grade -10)	As per CGPA calculation- Lab External (Max: Grade-10)	Att. Level	
1	19T51R0001	35	4	5	9	3	35	4	5	9	3	9	3	A	8	3	
2	19T51R0002	34	4	5	9	3	35	4	5	9	3	9	3	O	10	3	
3	19T51R0003	33	4	5	9	3	34	4	5	9	3	9	3	A	8	3	
4	19T51R0004	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3	
5	19T51R0005	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3	
6	19T51R0006	33	4	5	9	3	35	4	5	9	3	9	3	O	10	3	
7	19T51R0007	33	4	5	9	3	34	4	5	9	3	9	3	A	8	3	




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8	19T51R0008	33	4	5	9	3	34	4	5	9	3	9	3	A	8	3
9	19T51R0009	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
10	19T51R0010	0	0	0	0	0	0	0	0	0	0	0	0	AB	0	0
11	19T51R0011	34	4	5	9	3	34	4	5	9	3	9	3	O	10	3
12	19T51R0012	37	5	5	10	3	36	5	5	10	3	10	3	O	10	3
13	19T51R0013	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
14	19T51R0014	34	4	5	9	3	34	4	5	9	3	9	3	O	10	3
15	19T51R0015	34	4	5	9	3	34	4	5	9	3	9	3	O	10	3
16	19T51R0016	35	4	5	9	3	35	4	5	9	3	10	3	O	10	3
17	19T51R0017	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
18	19T51R0018	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
19	19T51R0019	37	5	5	10	3	36	5	5	10	3	10	3	O	10	3
20	19T51R0020	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
21	19T51R0021	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
22	19T51R0022	35	4	5	9	3	34	4	5	9	3	9	3	O	10	3
23	19T51R0023	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
24	19T51R0024	37	5	5	10	3	36	5	5	10	3	10	3	O	10	3
25	19T51R0025	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
26	19T51R0026	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
27	19T51R0027	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
28	19T51R0028	36	5	5	10	3	36	5	5	10	3	10	3	O	10	3
29	19T51R0029	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3
30	19T51R0030	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3
31	19T51R0031	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3
32	19T51R0032	37	5	5	10	3	36	5	5	10	3	10	3	O	10	3
33	19T51R0033	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
34	19T51R0034	35	4	5	9	3	35	4	5	9	3	9	3	A	8	3
35	19T51R0035	35	4	5	9	3	34	4	5	9	3	9	3	O	10	3
36	19T51R0036	36	5	5	10	3	35	4	5	0	0	5	1	O	10	3
37	19T51R0037	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
38	19T51R0038	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
39	19T51R0039	34	4	5	9	3	35	4	5	9	3	9	3	A	8	3
40	19T51R0040	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3
41	19T51R0041	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
42	19T51R0042	33	4	5	9	3	34	4	5	9	3	9	3	A	8	3
43	19T51R0043	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3
44	19T51R0044	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3




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45	19T51R0045	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
46	19T51R0046	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
47	19T51R0047	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
48	19T51R0048	33	4	5	9	3	34	4	5	9	3	9	3	A	8	3
49	19T51R0049	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
50	19T51R0050	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3
51	19T51R0051	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3
52	19T51R0052	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
53	19T51R0053	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
54	19T51R0054	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3
55	19T51R0055	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
56	19T51R0056	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
57	19T51R0057	36	5	5	10	3	36	5	5	10	3	10	3	O	10	3
58	19T51R0058	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
59	19T51R0059	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
60	19T51R0060	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
61	19T51R0061	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
62	19T51R0062	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
63	19T51R0063	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
64	19T51R0064	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
65	19T51R0065	37	5	5	10	3	36	5	5	10	3	10	3	O	10	3
66	19T51R0066	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
67	19T51R0067	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
68	19T51R0068	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3
69	19T51R0069	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
70	19T51R0070	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
71	19T51R0071	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
72	19T51R0072	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
73	19T51R0073	36	5	5	10	3	34	4	5	9	3	10	3	O	10	3
74	19T51R0074	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
75	19T51R0075	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
76	19T51R0076	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
77	19T51R0077	34	4	5	9	3	35	4	5	9	3	9	3	O	10	3
78	19T51R0078	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
79	19T51R0079	36	5	5	10	3	34	4	5	9	3	10	3	O	10	3
80	19T51R0080	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
81	19T51R0081	35	4	5	9	3	35	4	5	9	3	9	3	O	10	3



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82	19T51R0082	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
83	19T51R0083	37	5	5	10	3	34	4	5	9	3	10	3	O	10	3
84	19T51R0084	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
85	19T51R0085	37	5	5	10	3	36	5	5	10	3	10	3	O	10	3
86	19T51R0086	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
87	19T51R0087	37	5	5	10	3	36	5	5	10	3	10	3	O	10	3
88	19T51R0088	35	4	5	9	3	34	4	5	9	3	9	3	O	10	3
89	19T51R0089	35	4	5	9	3	34	4	5	9	3	9	3	O	10	3
90	19T51R0090	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
91	19T51R0091	28	4	5	9	3	34	4	5	9	3	9	3	A	8	3
92	19T51R0092	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
93	19T51R0093	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
94	19T51R0094	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
95	19T51R0095	34	4	5	9	3	34	4	5	9	3	9	3	A	8	3
96	19T51R0096	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
97	19T51R0097	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
98	19T51R0098	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
99	19T51R0099	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
100	19T51R00A1	35	4	5	9	3	34	4	5	9	3	9	3	O	10	3
101	19T51R00A2	36	5	5	10	3	35	4	5	9	3	10	3	O	10	3
102	19T51R00A3	37	5	5	10	3	36	5	5	10	3	10	3	O	10	3

Attainment Level Summary	Internals	Externals
	1	1
Maximum Attainment Level	3	3
Cut-off Attainment Level (60%Internal,80% External)	1.8	2.4
No.of Student >=Cut-off	100	101
% of students >=cut-off	98	99
Level Attained	3	3

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

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

SUB
Faculty



Principals
Principal

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Avanathi Institute of Pharmaceutical Sciences
Cherukupally (V), Bhogapuram Mandal
Vizianagaram Dt., - 531162



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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

Dept of B Pharm, Regulation : PCI (R14)

Subject : Communication Skills Practical Year & Sem : I - I

Faculty: Mrs.K Subha Lakshmi, Assistant Professor

Particulars	Overall Attainment
Internal Attainment Level (INT)	3
External Attainment Level (EXT)	2
TOTAL = INT * 0.4 + EXT * 0.6	3
Target level is 2.2	
Target level is attained	


Faculty




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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES


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Faculty: Mrs.K Subha Lakshmi, Assistant Professor

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

CO	CO Attainment Level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO111.1	3	-	-	-	-	-	-	-	3	1	-	2	-	2
CO111.2	3	-	1	1	-	-	-	-	3	-	-	2	-	2
CO111.3	3	-	-	-	-	-	-	-	3	-	-	2	-	2
CO111.4	3	-	-	-	-	-	-	-	3	-	-	2	1	2
PO/PSO Weightage		0	1	1	0	0	0	0	12	1	0	8	1	8
PO/PSO Co-relation weightage all Cos(1-6)		0	3	3	0	0	0	0	36	3	0	24	3	24
PO/PSO Attainment Level		-	3.00	3.00	-	-	-	-	3.00	3.00	-	3.00	3.00	3.00


Faculty




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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Cherukupally (Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist) - 531162
Regulation : PCI (R14) Subject : Project Work Year & Sem : IV-II

Faculty: Mrs. Y Anveshi and Mrs. K Venkata Radhika, Associate Professors

Course Outcomes

CO813.1	Define the fundamentals, carry out the literature review on the proposed research work and identify the problem.												
CO813.2	Develop the research hypothesis.												
CO813.3	Summarise the requirements in the proposed research.												
CO813.4	Take part in research experiments and documented.												
CO813.5	Evaluate the work done by applying statistic tools.												
CO813.6	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	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.2	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.3	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.4	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.5	2	1	2	2	3	1	2	2	2	-	-	2	2
CO813.6	2	1	2	2	3	1	2	2	2	-	-	2	2
	2	1	2	2	3	1	2	2	2	-	-	2	2




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Regulation : PCI (R14), Subject : Project Work Year & Sem : IV-II

CGPA CALCULATION

Marks Range Theory	Marks Range Lab	Letter Grade	Level	Grade Point
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≥ 80 to < 90	≥ 80 to < 90	S	Excellent	9
≥ 70 to < 80	≥ 70 to < 80	A	Very Good	8
≥ 60 to < 70	≥ 60 to < 70	B	Good	7
≥ 50 to < 60	≥ 50 to < 60	C	Fair	6
≥ 40 to < 50	≥ 40 to < 50	D	Satisfactory	5
< 40	< 40	F	Fail	0
			Absent	0



A. M. S.
Principal

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AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Regulation : PCI(R14), Subject : Project Work Year & Sem : IV-II

Faculty: Mrs. Y Anveshi and Mrs. K Venkata Radhika, Associate Professors

S NO	Roll NO	Grade	GRADE WEIGHTAGE	Att. Level
1	19T51R0001	A	8	3
2	19T51R0002	O	10	3
3	19T51R0003	A	8	3
4	19T51R0004	A	8	3
5	19T51R0005	A	8	3
6	19T51R0006	A	8	3
7	19T51R0007	A	8	3
8	19T51R0008	O	10	3
9	19T51R0009	A	8	3
10	19T51R0010	A	8	3
11	19T51R0011	A	8	3
12	19T51R0012	O	10	3
13	19T51R0013	O	10	3
14	19T51R0014	A	8	3
15	19T51R0015	A	8	3
16	19T51R0017	O	10	3
17	19T51R0018	O	10	3
18	19T51R0019	O	10	3
19	19T51R0020	O	10	3
20	19T51R0021	O	10	3
21	19T51R0022	O	10	3
22	19T51R0023	O	10	3
23	19T51R0024	O	10	3
24	19T51R0025	O	10	3
25	19T51R0026	O	10	3
26	19T51R0027	O	10	3
27	19T51R0028	O	10	3
28	19T51R0029	O	10	3
29	19T51R0030	O	10	3
30	19T51R0031	O	10	3
31	19T51R0032	O	10	3
32	19T51R0033	O	10	3
33	19T51R0034	O	10	3
34	19T51R0035	O	10	3
35	19T51R0036	O	10	3
36	19T51R0037	A	8	3
37	19T51R0038	O	10	3
38	19T51R0039	O	10	3
39	19T51R0040	A	8	3
40	19T51R0041	A	8	3
41	19T51R0042	O	10	3
42	19T51R0043	A	8	3
43	19T51R0044	O	10	3



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Vizianagaram Dt., - 531162

44	19T51R0045	O	10	3
45	19T51R0046	O	10	3
46	19T51R0047	A	8	3
47	19T51R0048	A	8	3
48	19T51R0049	A	8	3
49	19T51R0050	O	10	3
50	19T51R0051	A	8	3
51	19T51R0052	A	8	3
52	19T51R0053	A	8	3
53	19T51R0054	A	8	3
54	19T51R0055	A	8	3
55	19T51R0056	O	10	3
56	19T51R0057	O	10	3
57	19T51R0058	O	10	3
58	19T51R0060	O	10	3
59	19T51R0061	O	10	3
60	19T51R0062	O	10	3
61	19T51R0063	O	10	3
62	19T51R0064	O	10	3
63	19T51R0065	O	10	3
64	19T51R0066	O	10	3
65	19T51R0067	O	10	3
66	19T51R0068	O	10	3
67	19T51R0069	O	10	3
68	19T51R0070	O	10	3
69	19T51R0071	O	10	3
70	19T51R0072	O	10	3
71	19T51R0074	A	8	3
72	19T51R0075	A	8	3
73	19T51R0076	A	8	3
74	19T51R0077	O	10	3
75	19T51R0078	O	10	3
76	19T51R0079	O	10	3
77	19T51R0080	O	10	3
78	19T51R0081	O	10	3
79	19T51R0082	O	10	3
80	19T51R0083	O	10	3
81	19T51R0084	O	10	3
82	19T51R0085	O	10	3
83	19T51R0086	O	10	3
84	19T51R0087	O	10	3
85	19T51R0088	A	8	3
86	19T51R0089	O	10	3
87	19T51R0090	O	10	3
88	19T51R0091	O	10	3
89	19T51R0092	A	8	3
90	19T51R0093	O	10	3
91	19T51R0094	O	10	3
92	19T51R0095	A	8	3
93	19T51R0096	O	10	3
94	19T51R0097	O	10	3
95	19T51R0098	O	10	3



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96	19T51R0099	A	8	3
97	19T51R00A1	O	10	3
98	19T51R00A2	O	10	3
99	19T51R00A3	O	10	3
100	18T51R0072	O	10	3

Attainment Level Summary	CO1 to CO6		
Maximum Attainment Level	3		
Cut-off Attainment Level(1.8-Passed)	0		
No.of Student \geq Cut-off	100		
% of students \geq cut-off	100		
Level Attained	3		
Level of Attained			
% of students	<50	50-79	\geq 80
Level	1	2	3

Anushi
Bo
 Faculty



Anushi
 Principal

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 Vizianagaram Dt., - 531162



AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Cherukupally(Village), Near Thagarapuvalasa Bridge, Vizianagaram (Dist)-531162
Regulation : PCI (R14) Subject :Project Work Year & Sem : IV-II

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
CO801.1	2	1	2	2	3	1	2	2	2	-	-	2	2
CO801.2	2	1	2	2	3	1	2	2	2	-	-	2	2
CO801.3	2	1	2	2	3	1	2	2	2	-	-	2	2
CO801.4	2	1	2	2	3	1	2	2	2	-	-	2	2
CO801.5	2	1	2	2	3	1	2	2	2	-	-	2	2
CO801.6	2	1	2	2	3	1	2	2	2	-	-	2	2
PO/PSO Weightage	12	6	12	12	18	6	12	12	12	0	0	12	12
PO/PSO Co-relation weightage all Cos(1-5)	36	18	36	36	54	18	36	36	36	0	0	36	36
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

Amvelli

[Signature]
Faculty



[Signature]
Principal

PRINCIPAL

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