



**Indore Institute of
Pharmacy**

Affiliated to: B.P.O (Pharm) (Approved by: AICTE New Delhi & P.O. New Delhi)
Register: (Under UGC Act)



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2.6.2. Course outcome evaluation process 2022-23

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2.6.2.

Course Outcome Evaluation Process

Attainment of COs (Evaluation) is done by using the direct methods of assessment like sessional examinations, assignments, quizzes, and end semester examination. The weightage of sessional examinations is fixed at 15%, assignments/quizzes 10% and end semester examination 75%. The attainment is calculated on a scale of 1 to 3, which is allotted as follows - e.g., Attainment Level 1: students scoring marks between 50.0-60.0% Attainment Level 2: students scoring marks between 60.1-70.0% marks Attainment Level 3: students scoring more than 70.0% marks in examination

Program Outcome Evaluation Process

- POs are assessed by using both direct methods detailed above and indirect methods like surveys and an assessment matrix is created.
- Direct methods contribute 80% and indirect methods contribute 20% in the assessment process.
- All individual COs are mapped or correlated with POs on a scale of 1 to 3 wherein 1-Low; 2-Medium; and 3-High. The attainment of POs is done individually for all courses and then at the year-end average is taken by the weighed average method.
- The final attainment is based on the weighted average method described above.




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Mechanism of Course Outcome Evaluation Process

Attainment of COs (Evaluation) is done by using the direct methods of assessment like sessional examinations, assignments, quizzes, and end semester examination. The weightage of sessional examinations is fixed at 15%, assignments/quizzes 10% and end semester examination 75%. The attainment is calculated on a scale of 1 to 3, which is allotted as follows - e.g., Attainment Level 1: students scoring marks between 50.0-60.0% in the examination is considered to be the attainment of "1" level.

Attainment Level 2: students scoring marks between 60.1-70.0% marks in examination is considered to be the attainment of "2" Attainment Level 3: students scoring more than 70.0% marks in examination are considered to be the attainment of "3".

Mechanism of Program Outcome Evaluation Process

POs are assessed by using both direct methods and indirect methods. An assessment matrix is created using direct and indirect methods. Direct methods contribute 80% and indirect methods contribute 20% in the assessment process. All individual COs are mapped or correlated with POs on a scale of 1 to 3 wherein 1-Low; 2-Medium; and 3-High.

The attainment of POs is done individually for all courses and then at the year-end average is taken by the weighed average method. In direct assessment, sessional exam assessment and assignment given to students are used for calculation along with end semester exam results. These obtained attainment are then mapped and articulation matrix is formed. All the courses are evaluated for the direct and for the indirect assessment. Similarly, at an academic year end the PO attainment for all courses is compiled and averaged.




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In the final step, PO attainment is calculated by the indirect method of assessment in which Program Exit feedback surveys and course wise feedback surveys from the students of each program is collected. The questionnaire of program exit survey form is prepared based on the program outcomes and it is evaluated based on the score allotted for the responses received from the students and assessed for indirect attainment. The final attainment is based on the weighted average method described above.

After this sum of 80% of direct and 20% of indirect attainments are calculated and presented as attainment % for the particular program.

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**B.PHARM PO ATTAINMENT
ACADEMIC YEAR 2022-2023**



Direct Assessment		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	Attainment	80.45	79.98	78.28	76.59	77.99	80.92	79.70	77.81	72.56	74.35	79.37
	80%	64.36	63.98	62.62	61.27	62.39	64.74	63.76	62.25	58.04	59.48	63.50

Indirect Assessment		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	Course exit survey	84.87	85.84	85.88	85.05	85.64	84.99	84.75	85.12	84.14	91.05	85.63
	Program exit survey	90.37	85.93	76.3	76.3	82.22	76.3	81.48	79.26	82.22	76.7	75.54
	Average	87.62	85.88	81.09	80.68	83.93	80.64	83.12	82.19	83.18	83.88	80.59
	20%	17.52	17.18	16.22	16.14	16.79	16.13	16.62	16.44	16.64	16.78	16.12

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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
PO Attainment for session 22-23	81.88	81.16	78.84	77.41	79.18	80.86	80.38	78.68	74.68	76.26	79.62



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Program Outcome B.Pharm																		
ACADEMIC YEAR 2022-23																		
S. No.	Univ. Subject Code	Subject Name	CO	CO Description	CO Avg	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11		
1	BP101T	Human Anatomy and Physiology - I	C101.1	Recall the basics of life processes, structural organization, haemostatic mechanism cellular-level understanding of living beings, and understand the tissue level organization of human being	1.3	3	2	2	1	1			2			2		
			C101.2	Explain the gross morphology, structure, and functions of the human integumentary and skeletal system	1.4	3	2	2	1	1			2				2	
			C101.3	Summarize the gross morphology, structure, and functions of body fluids and the Lymphatic system.	1.5	3	2	2	1	1			2				1	
			C101.4	Explain the morphology, structure, and functions of the peripheral nervous system and sense organs	1.6	3	2	2	1	1			2				1	
			C101.5	Summarize the gross morphology, structure, and functions of CVS.	1.5	3	1	3	2	1	1	2	2	1	1	1	1	3
			AVERAGE				1.34	2.01	1.55	2.01	1.52	2.01	1.46	2.01			1.46	
2	BP102T	Pharmaceutical Analysis I	C102.1	Outline the basic concepts and techniques of pharmaceutical analysis	2.13	3	1	3	2	1	1	1	2	1	1	1		
			C102.2	Illustrate the principles and applications of acid-base titrations	2.19	3	1			1			2	1	1	1		
			C102.3	Development of analytical skills based on quantitative estimation	2.11	3	1			1			2	1	1	1		
			C102.4	Explain the fundamentals of redox titration	2.12	3	1		2	1			2	1	1	1		



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			C102.5	Application of various volumetric and electrochemical methods	2.02	3	3	1		1	2	2		2		3
			AVERA GE		2.02	2.02	2.09	2.14	2.15	2.02	2.07	2.07	2.15	2.15	2.15	2.12
3	BP103T	Pharmac entics - I	C103.1	Outline the history of pharmacy practice and pharmacopocis	1.75	3	3	1		1	2	2		1		3
			C103.2	Explain Solid dosage forms	1.86	3	3	1		1	2	2		2	1	3
			C103.3	Summarize monophasic and biphasic systems.	1.86	3	2	1		1	2	2		2	1	3
			C103.4	Explain and classify the concept of suppositories and pharmaceutical incompatibilities	1.91	3	2	1		1	2	2		2	1	3
			C103.5	Summarize the concept of semisolid dosage forms.	1.89	3	1			1			2	1	1	3
			AVERA GE		1.85	1.85	1.84	1.84		1.84	1.85	1.84	1.89	1.86	1.88	1.85
4	BP104T	Pharmac etical Inorgani c Chemist ry	C104.1	Outline medicinal and pharmaceutical importance of inorganic compounds	1.53	3	1			1			2	2	1	2
			C104.2	Explain the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals	1.40	3	1				1			2		3
			C104.3	Relate the importance of inorganic gastrointestinal agents	1.66	3	1				1			2		3
			C104.4	Outline the classification and mechanism of action of various inorganic pharmaceuticals	1.49	3	1				1			2		3
			C104.5	Discuss the various radioisotopes and their pharmaceutical applications	1.27	3	1				1					3
			AVERA GE		1.45	1.43	1.38	1.47	1.51	1.43	1.36	1.36	1.47	1.47	1.47	1.45
			C105.1	Developing all dimensions of personality in terms of communication skills to express, understand and convey the thoughts impressively in a given situation	2.1	3	1	2	2	2	2	1	3	1		2



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5	BP105T	Communi- cation Skills	C105.2	Construct an understanding of verbal and nonverbal communication and various styles.	2.7	3	1	2	2	2	2	1	3	1	2
			C105.3	Develop better listening skills and written communication.	2.9	3	1	2	2	2	2	1	3	1	2
			C105.4	Develop interview skills and the art of presentation.	2.9	3	1	2	2	2	2	1	3	1	2
			C105.5	Build the ability for group discussion and leadership skills	2.8	3	1	2	2	2	2	1	3	1	2
			AVERAGE		2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
6	BP106 RBT	Remedia Biology	C.106.1	Classify the diversity of the living systems and five kingdoms of life with the morphology of flowering plants like root, stem, and leaf.	2.7	3	1	2	2	1			2		2
			C.106.2	Know various concepts of body fluids and circulation, digestion and absorption, and breathing and respiration.	2.9	3	1	2	2	1			2		2
			C.106.3	Relate basic components of anatomy & physiology of the human body concerning human reproduction, excretion, neural control, and chemical coordination.	2.8	3	1	2	2	1			2		2
			C.106.4	Define basic concepts of plant nutrients and photosynthesis	2.7	3	1	2	1			1	2		2
			C.106.5	Describe plantrespiration growth, and development of plant and cell structure and tissue	3	3	1	2	1			1	2		2
			AVERAGE		2.82	2.80	2.80	2.80	2.78						2.80
7	BP106 MVT	Remedia Mathematics	C.106M.1	Know the introduction of partial fraction, logarithm, function and limits, and continuity.	2.60	3	1	2	1			1	2		2
			C.106M.2	Solve the different types of problems by applying matrices and determinants.	2.47	3	1	2	1			1	2		2
			C.106M.3	Appreciate and understand the principles and solve the problem related to calculus.	2.69	3	1	2	1			1	2		2



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	00714	Mathematics	C.106M.4	Summarize the principle and application of analytical Geometry.	2.7	3	1	2	1			1	2			2
			C.106M.5	Explain the principle of geometry, differential equation, and Laplace transform	2.8	3	1	2	1			1	2			2
			AVERA GE		2.64	2.64	2.64	2.64	2.64			2.64	2.64			2.64
8	BP107P	Human Anatomy & Physiology	C.107.1	Model physiological processes discussed in theory classes through experiments on normal human beings.	2.04	3	1	2	1			1	2			2
			C.107.2	Study microscopic demonstration of the cells & tissues	2.13	3	1	2	1			1	2			2
			C.107.3	Identify various systems using charts, models & specimen	1.81	3	1	2	1			1	2			2
			C.107.4	Analyze human blood sample	2.85	3	1	2	1			1	2			2
			AVERA GE		2.17	2.17	2.17	2.17	2.17			2.17	2.17			2.17
9	BP108P	Pharmaceutical Analysis	C.108.1	Learn the art of performing limit tests of some common impurities	2.95	3	1	2	1			1	2			2
			C.108.2	Demonstrate the art of preparation and standardization of primary and secondary standards	2.82	3	2	1		3	2	1	1			2
			C.108.3	Perform and learn the technique of assay	2.82	3	2	1		3	2	1	1			2
			C.108.4	Determine Normality using various electro-analytical methods.	3.00	3	2	1		3	2	1	1			2
			AVERA GE		2.90	2.67	2.64	2.90	2.70	2.97	2.63	2.65	2.66			2.65
10	BP109P	Pharmaceutics I	C.109.1	Understand the basics of different dosage forms and pharmacopoeia	2.7	3	3	1				2	2	2		2
			C.109.2	Formulation and dispensing of liquid dosage forms	2.6	3	3	1				2	2	2		2
			C.109.3	Formulation and dispensing of solid dosage form	3.0	3	3	1				2	2	2		2
			C.109.4	Formulation and dispensing of semi-solid dosage form	2.8	3	3	1				2	2	2		2



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			AVERA GE		2.83	2.83	2.83	2.83			2.83	2.83	2.83		2.83	2.83	
11	BP110P	Pharmac euti cal Inorgani c Chemist ry	C.110.1	Analyze qualitative determination of impurities via Limit Test	3	3	2	1		1	2	1	2			2	
			C.110.2	Learn to identify different inorganic compounds	3	3	2	1		1	2	1	2				2
			C.110.3	Determine the purity of Bentonite, Aluminium Hydroxide Gel, etc.	2.4	3	2	1		1	2	1	2				2
			C.110.4	Elaborate preparation and use of Boric Acid, Potash Alum, and Ferrous Sulphate	3	3	2	1		1	2	1	2				2
			AVERA GE			2.95	2.94	2.94	2.94		2.94	2.94	2.94	2.94			2.94
12	BP111P	Commu nication Skills	C.111.1	Identify and learn socializing and etiquette	2.7	3	2	1		1	1		2			2	
			C.111.2	Adapting the correct use of pronunciation (Consonantal and vowel sounds)	2.6	3	2	1		1	1		2				2
			C.111.3	Develop the use of narration and figures of speech	2.7	3	2	1		1	1		2				2
			C.111.4	Improve writing skills and e-mail etiquette	2.8	3	2	1		1			2				2
			C.111.5	Take part in mock personal interview sessions	2.7	3	2	1		1			2				2
			C.111.6	Illustrate presentations	2.8	3	2	1		1			2				2
			AVERA GE			2.71	2.71	2.71	2.71		2.71	2.64		2.71			2.71
13	BP112P	Remedia l Biology	C.112.1	Demonstrate the basic concepts of experimental biology	2.93	3	2	1		1			2			2	
			C.112.2	Discuss the anatomy of the frog through computer-assisted techniques	2.6	3	2	1		1			2				2
			C.112.3	Model physiological processes discussed in theory classes through experiments on normal human beings.	2.95	3	2	1		1			2				2
			C.112.4	Identification and microscopic study of plant parts	2.4	3	2	1		1			2				2
			AVERA GE			2.92	2.92	2.92	2.47		2.92			2.92			2.92
		C201.1	Explain nervous system organization	2.83	3	2	1	1	1	1			1			1	



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14	BP201T	HUMAN ANATOMY AND PHYSIOLOGY - II	C201.2	Illustrate the anatomy, regulation, and disorders of the Digestive system and energetics.	2.50	3	2	3	1	1			1		1			
			C201.3	Make use of knowledge related to the anatomy of the Respiratory system and Urinary system	2.65	3	2	3	1	1			1				1	
			C201.4	Relate the interlinked classification, mechanism, and functions of the endocrine system	2.67	3	2	1	1	1					1			1
			C201.5	Explain the anatomy, physiology, and functions of the reproductive system and aspects of genetics.	2.53	3	2	1	1	1					1			1
			AVERAGE		2.71	2.60	2.60	2.68	2.62	2.61					2.62			2.61
15	BP202T	PHARMACEUTICAL ORGANIC CHEMISTRY-I	C202.1	Understand the classification and nomenclature of simple organic compounds	1.85	3	2				1		2		3			
			C202.1	Explaining the mechanism of various reactions with their orientation	1.86	3	2				1		2			3		
			C202.3	Determining the reactivity and stability of various organic compounds	1.8	3	2				1		2			3		
			C202.4	Identification and confirmation of different organic compounds	1.84	3	2				1		2					
			C202.5	Evaluating the acidity and basicity of different organic compounds with their uses	1.87	3	2				1		2				3	
			AVERAGE		1.84	1.86	1.84				1.84		1.82				1.82	
			16	BP203T	BIOCHEMISTRY	C203.1	Demonstrate and define fundamental principles and nature of biomolecules	1.86	3	1				1		2	1	3
C203.2	Outline and relate various metabolic pathways & their regulation in the body	1.79				3	1				1		2	1		3		
C203.3	Understanding the metabolism of nutrient molecules in various physiological and pathological conditions	1.86				3	1				1		2	1		3		



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		Y	C203.4	Understand the genetic organization of the mammalian genome and functions of DNA in the synthesis of RNAs and proteins	1.88	3	1				1		2	1		3
			C203.5	Discuss the catalytic role and therapeutic and diagnostic applications of enzymes.	1.71	3	1				1		2	1		3
			AVERAGE		1.82	1.82	1.82				1.82		1.36	1.36		1.82
17	BP204T	PATHO PHYSIO LOGY	C204.1	Outline principles of cell injury adaptation and explain the basic mechanism involved in the process of inflammation and repair	2.3	3	1	1	1	1			1			3
			C204.2	The student will be able to understand the pathophysiology of cardiovascular, respiratory, and renal system	2.3	3	1	1	1	1			1			3
			C204.3	Classify and understand salient features related to the pathophysiology of hematological diseases, endocrine, nervous and gastrointestinal system	2.2	3	1	1	1	1			1			3
			C204.4	Define the etiology and pathophysiological mechanism of diseases like bones and joint disorder with principles of cancer	2.3	3	1	1	1	1			1			3
			C204.5	Understand the important complications of infectious and sexually transmitted diseases	2.3	3	1	1	1	1			1			3
			AVERAGE		2.26	2.26	2.26	1.34	2.26	2.26			2.26			2.26
18	BP205T	COMPU TER APPLIC ATION IN PHARM ACY	C.205.1	Demonstrate the fundamentals of computer	2.61	3	1	2	2	1			1			3
			C.205.2	Define the web technologies and types of databases	2.69	3	1	2	2	1			1			3
			C.205.3	Explain the application of computers in pharmacy	2.63	3	1	2	2	1			1			3
			C.205.4	Outline the various applications of databases in pharmacy	2.66	3	1	2	2	1			1			3



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			AVERA GE		2.55	2.66	2.65	2.65	2.65	2.65			2.65			2.60
19	BP206T	ENVIR ONMEN TAL SCIENC ES	C.206.1	Create the awareness about natural sources and associated problems	1.8	3	1	2	2	1			1		3	2
			C.206.2	Construct basic knowledge about different types and functions of ecosystems	1.85	3	1	2	2	1			1		3	3
			C.206.3	Develop and learn the concept of environmental pollution	1.85	3	1	2	2	1			1		3	3
			AVERA GE		1.83	1.85	1.83	1.83	1.83	1.85			1.85		1.85	1.83
20	BP207P	HUMAN ANATO MY AND PHYSIO LOGY	C.207.1	Take part in the study of physiological processes by using models and specimens of a few organ systems of the human body	2.55	3	1	1	1	1			1			1
			C.207.2	Illustrate and experiment with human subjects to understand normal body functioning	2.55	3	1	1	1	1			1			1
			C.207.3	Outline family planning devices and pregnancy diagnostic methods	2.52	3	1	1	1	1			1			1
			C.207.4	Relate the histology of vital organs with the help of slides	2.54	3	1	1	1	1			1			1
			C.207.5	Construct blood report by using a cell analyzer	2.54	3	1	1	1	1			1			1
			AVERA GE		2.52	2.52	2.55	2.50	2.50	2.52			2.50			2.50
21	BP-208P	PHARM ACEUTI CAL ORGAN IC CHEMI STRY-I	C.208.1	Take part in preliminary testing and functional group testing of organic compounds	2.58	3	2	1		2	2	1	2			3
			C.208.2	Test for melting point and boiling point of organic compounds	2.53	3	2	1		2	2	1	2			3
			C.208.3	Create derivatives of organic compounds	2.45	3	2	1		2	2	1	2			3
			C.208.4	Develop solid derivatives from organic compounds	2.45	3	2	1		2	2	1	2			3
			AVERA GE		2.46	2.45	2.45	2.45		2.45	2.45	2.45	2.45			2.45
			C.209.1	Take part in qualitative analysis	2.4	3	2	1		2	2	2	2			2
			C.209.2	Test for the presence of abnormal constituents in blood and urine	2.4	3	2	1		2	2	1	2			2



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22	BP-209P	BIOCHEMISTRY	C.209.3	Create buffers of various strengths for use in biochemistry practical	2.9	3	2	1		2	2	1	1			2			
			C.209.4	Develop and learn methods for testing enzyme activity	2.9	3	2	1		2	2	1	2					2	
			C.209.5	Demonstrate and related methods used in polymer degradation	2.8	3	2	1		2	2			2					2
			AVERAGE		2.84		2.85	2.85	2.73		2.40	2.88	2.95	2.88				2.88	
23	BP-210P	COMPUTER APPLICATION IN PHARMACY	C.210.1	Create HTML web-page	2.95	3	1	1	3	1	1		2	1		1			
			C.210.2	Design questionnaire, forms, and reports using MS-Access	2.81	3	1	1	3	1	1		2	1		1			
			C.210.3	Create invoice tables databases using MS-Access	2.91	3	1	1	3	1	1		2	1		1			
			C.210.4	Develop and learn methods for content export using web-pages	2.92	3	1	1	3	1	1		2	1		1			
			C.210.5	Demonstrate and relate methods for drug information retrieval using online tools	2.76	3	1	1	3	1	1		2	1		1			
			AVERAGE		2.87	2.87	2.87	2.87	2.87	2.87	2.87		2.87	2.87		2.85			
24	BP-301T	PHARMACEUTICAL CHEMISTRY -II (ORGANIC CHEMISTRY-III)	C.301.1	Interpret the structure reactions and substituents of Benzene and its derivative	2.95	3	2			1	1		2			3			
			C.301.2	Explain the methods of preparation, reactions and the type of isomerism of the Phenol, aromatic amines and aromatic acids.	2.95	3	2			1	1		2			3			
			C.301.3	Elaborate various reactions and properties of fats and oils	2.92	3	2			1	1		2			3			
			C.301.4	Explain synthesis and uses of polynuclear hydrocarbons	2.92	3	2			1	1		2			3			
			C.301.5	Label general methods of preparation and reactions of Cyclo alkanes compounds	2.95	3	2			1	1		2			3			
			AVERAGE		2.93	2.85	2.85					2.85		2.89	2.94	2.94	2.89		
			C.302.1	Outline solubility and its application in pharmaceuticals	2.21	3	2	3	1		1	2	1	2			1		



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25	BP-302T	Physical Pharmac eutics I	C.302.1	Explain the basic concept of states of matter with its properties and the Physicochemical properties of drug molecules.	21	3	2	3	1	1	2	1	3	2	
			C.302.3	Explain the role of surfactant, surface tension, interfacial tension, and related properties (the of the drug during formulation.	217	3	2	3	1	1	2	1	2	1	2
			C.302.4	Explain the concept of complexation and protein binding.	221	3	2	3	1	1	2	1	1	1	2
			C.302.5	Apply principles of pH, buffers, and isotonic solutions.	21	3	2	3	1	1	2	1	1	1	2
			AVERA GE		218	242	100	100	202	100	100	202	200	200	200
26	BP-303T	Microbi ology	C.303.1	Explain methods of identification, cultivation, and preservation of various microorganisms (Prokaryotes, Eukaryotes, and Bacteria)	23	3	2	3	1	1	1	1	1	3	
			C.303.2	Interpret the importance and implementation of sterilization and aseptic conditions in pharmaceutical processing and industry	23	3	3	3	3	1	2	2	1	3	2
			C.303.3	Define fungi and viruses and sterility testing of pharmaceutical products	24	3	1	1	3	1	1	1	2	2	2
			C.303.4	Outline the cell culture technology, aseptic area, and methods of standardization.	23	3	3	3	3	2	1	1	2	3	2
			C.303.5	Illustrate methods of identification, cultivation, subculturing, and preservation of various microorganisms, growth of animal cells, and application in the pharmaceutical industry.	2	3	3	3	3	2	1	1	2	2	2
AVERA GE		226	226	223	234		223	224	226	225	226	226			
			C.304.1	Explain various operations of the flow of fluids, size reduction & size separation.	122	3	3	1	1	1	2	1	2	2	



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27	BP-304T	Pharmaceutical Engineering	C.304.2	Relate the principles and operations involved in heat transfer, Evaporation, and Distillation.	2:17	3	2	1	1	1	2	1	3	2	
			C.304.3	Explain the concept of drying and mixing with the equipment used.	2:21	3	2	1	1	1	2	1	2	2	2
			C.304.4	Outline the concept of Filtration and centrifugation with the equipment used.	2:17	3	2	3	1	1	1	1	1	1	1
			C.304.5	Explain the concept of material of pharmaceutical plant construction, corrosion, and its prevention.	2:11	3	2	3	1	1	1	1	1	1	2
			AVERA GE		2:18	2:18	2:18	2:18	2:18	2:18	2:18	2:18	2:18	2:18	2:18
28	BP-305P	Pharmaceutical Organic Chemistry	C.305.1	Apply the common laboratory techniques like recrystallization and steam distillation.	3	3	2	1	2	2	1	2	2		
			C.305.2	Demonstrate the significance and process of determination of oil values including acid values, saponification values and iodine value	3	3	2	1	2	2	1	2	2		
			C.305.3	Outline the synthesis of basic organic compounds by various reaction mechanisms including nitration, bromination, acetylation	3	3	2	1	2	2	1	2	2		
			C.305.4	Outline the synthesis of basic organic compounds by various reaction mechanisms including hydrolysis, oxidation, and some name reactions	2:9	3	2	1	2	2	1	2	2		
			AVERA GE		2:9	2:9	2:9	2:9	2:9	2:9	2:9	2:9	2:9	2:9	
29	BP-306P	Physical Pharmacy	C.306.1	Explain a basic understanding of solubility determination.	3	3	2	3	1	1	2	1	2		
			C.306.2	Demonstrate the significance and process of determination of pKa and partition coefficient, and surface tension by various methods.	3	3	2	3	1	1	2	1	3	2	



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		entics I	C.306.3	Determine the stability of the compounds by various methods	3	3	2	3	1		1	2	1	2		2
			C.306.4	Determination of HLB number and CMC of surfactants.	29	3	2	3	1		1	2	1	1		2
			AVERA GE		238	236	236	238	238		238	238	238	239		236
30	BP-307P	Microbiology	C.307.1	Demonstrate and choose amongst different types of equipment and processing	3	3	2	2	3		2	2	1	1	2	2
			C.307.2	Illustrate the art of sterilization of glassware and preparation and sterilization of media.	28	3	2	2	2		1	2	1	1	2	2
			C.307.3	Illustrate the process of culturing, sub-culturing, and multiple streaking methods	3	3	3	3	3		1	1	1	1	1	1
			C.307.4	Make use of various staining techniques (simple, gram, and acid-fast staining) and the hanging drop method for determining the motility of microorganisms.	3	2	3	3	1		1	2	1	1	2	1
			AVERA GE		235	232	234	234			234	233	233	232	231	231
31	BP-308P	Pharmaceutical Engineering	C.308.1	Determine the radiation constant of different materials used in pharmaceutical manufacturing	28	3	2	1	1				1			1
			C.308.2	Demonstrate the various factors influencing filtration and evaporation rate	3	3	2	1	1				1			1
			C.308.3	Explain humidity & drying and construct a psychrometric chart and drying curve	28	3	2	1	1				1			1
			C.308.4	Demonstrate the principle and working of ball mill and sieve shaker	3	3	2	1	1				1			1
			AVERA GE		230	228	228	229			229	229	229			229
			C.401.1	Relate the mechanism of stereoisomerism with organic compounds	232	3	3				1		2			3
			C.401.2	Illustrate basic concepts of Geometrical isomerism of various organic compounds	234	3	1				1		2			3





32	BP-401T	CAL ORGAN IC CHEMI STRY	C.401.3	Classify and study the nomenclature of heterocyclic compounds	2.88	3	1				1		2			3	
			C.401.4	Summarize the methods of preparation and properties of organic compounds	2.79	3	1				1		2				3
			C.401.5	Recall reactions of synthetic importance	2.95	3	1				1		2				3
			AVERAGE		2.50	2.90	2.90				2.90		2.88	2.92	2.92	2.89	
33	BP-402T	MEDICI NAL CHEMI STRY	C.402.1	Recall the concept of physicochemical properties of drug molecules in relation to drug activity.	2.47	3	1	1				1		2	2		3
			C.402.2	To assess Structural Activity relationship, mechanism of action, classification, and uses of drugs acting on the Autonomic nervous system.	2.57	3	1	1				1		2	2		3
			C.402.3	To classify sympathetic and parasympathetic agents with SAR of selective drugs	2.47	3	1	1				1		2	2		3
			C.402.4	To extend the knowledge of drugs acting on Central Nervous Systems like sedatives, antipsychotics anticonvulsants etc.	2.47	3	1	1				1		2	2		3
			C.402.5	To explain the Structural Activity relationship, mechanism of action, classification, and uses of General Anesthetics	2.36	3	1	1				1		2	2		3
			AVERAGE		2.41	2.41	2.40	2.40	2.44	2.41	2.42	2.41	2.41	2.40	2.40	1.64	2.42
		PHYSIC	C.403.1	Classify the types of dispersions such as coarse and colloidal and to discuss their importance and properties and explain Suspension and Emulsion with their properties and evaluation parameters.	2.1	3	2	2	1	1			2			2	
			C.403.2	Explain rheology, different flow systems, and their importance in pharmaceuticals.	2.1	3	2	2	1	1			2				2



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34	BP-403T	PHARMACEUTICALS-II	C.403.3	Examine the role of surfactant, surface tension, interfacial tension, and related properties of the drug during formulation.	2.1	3	2	2	1	1			2		2	
			C.403.4	Illustrate the concept of micromeritics	2	3	2	2	1	1			2			2
			C.403.5	Demonstrate the role of various physical and chemical factors in drug stability and reaction kinetics	2.2	3	2	2	1	1			2			2
			AVERAGE		2.10	2.89	2.09	2.09	3.00	3.00			2.00			2.09
35	BP-404T	PHARMACOLOGY	C.404.1	Infer principle concept of pharmacology	2	3	2	2	1	1			2		2	
			C.404.2	Relate and develop fundamentals of pharmacokinetics and pharmacodynamics	2	3	2	2	1	1			2		2	
			C.404.3	explain the pharmacology of drugs acting on the peripheral nervous system	2.2	3	2	2	1	1			2		2	
			C.404.4	Make use of pharmacology to study drug activity in CNS	2.1	3	2	2	1	1			2		2	
			C.404.5	Apply basic knowledge of pharmacology in the prevention and treatment of various diseases	2.1	3	1	2	1	1			2		2	
		AVERAGE		2.08	2.88	2.08	2.08	2.00	1.27			1.80		2.08		
36	BP-405T	PHARMACOLOGY and PHYTOCHEMISTRY-I	C.405.1	Summarize general introduction of pharmacognosy, classification of crude drugs, and quality control of drugs of natural origin	2.40	3	1	1			1	1	2	1	1	2
			C.405.2	Explain the cultivation, collection, processing, and storage of drugs of natural origin	2.40	3	1	1			1	1	2	1	1	2
			C.405.3	Elaborate on the concept of plant tissue culture	2.38	3	1	1			1	1	2	1	1	2
			C.405.4	Illustrate different systems of medicines and classification of secondary metabolites	2.51	3	1	1			1	1	2	1	1	2



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			C405.5	Discuss pharmacognostic parameters of primary metabolites, plant products enzymes, proteins, enzymes, and marine drugs	2.53	3	1	1				1	1	2	1	1	2
			AVERA GE		2.45	2.45	2.45	2.10				2.45	1.54	1.54	1.54	1.54	2.45
37	BP-409P	PHARM ACOGN OSY-1	C.409.1	Understand the concept of swelling and foaming index	2.4	3	1	1				1	1				3
			C.409.2	Examine the chemical properties of different secondary metabolites	2.6	3	1	1				1					3
			C.409.3	Estimate different leaf constants	2.6	3	1	1				1					3
			C.409.4	Appraise the knowledge of quantitative microscopy	2.5	3	1	1				1					3
			C.409.5	Analyze the crude drugs on basis of physical parameters	2.8	3	1	1				1					3
			AVERA GE		2.58	2.58	1.50	2.50				2.58					2.58
38	BP-406P	MEDICI NAL CHEMI STRY-1	C.406.1	Assess synthesis and characterization of Benzimidazole having antimicrobial property	2.89	3	2	2			2	2	1	2	1		2
			C.406.2	Examine the antipyretic property of 1,3-pyrazole with Synthesis and Characterization	2.79	3	2	2			2	2	1	2	1		2
			C.406.3	Assess different drugs with Assay	2.89	3	2	2			2	2	1	2	1		2
			C.406.4	Estimate partition coefficient of any two drugs	2.63	3	2	2			2	2	1	2	1		2
			AVERA GE		2.80	2.85	2.40	1.84	2.34			2.80	1.94				2.80
			C407.1	Summarize general introduction of pharmacognosy, classification of crude drugs, and quality control of drugs of natural origin	2.51	3	2	1				1	1	2	1	1	2
			C407.2	Explain the cultivation, collection, processing, and storage of drugs of natural origin	2.45	3	2	1				1	1	2	1	1	3
39	BP-407P	PHYSIC AL	C407.3	Elaborate the concept of plant tissue culture	2.81	3	2	1				1	1	2	1	1	2



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	ACEUTI CS II	C407.4	Illustrate different systems of medicines and classification of secondary metabolites	2.62	3	2	1			1	1	2	1	1	2
		C407.5	Study of pharmacological parameters of primary metabolites, plant products enzymes, proteins, enzymes, and marine drugs	2.71	3	2	1			1	1	2	1	1	2
		AVERAGE		2.78	2.8	2.8	2.8	2.8		2.8	2.8	2.8	2.8		2.8
40	BP-40P PHARM ACOLO GY	C408.1	Identify and study common laboratory animals	2.64	3	2	1			1	1	2	1	1	2
		C408.2	Analyze commonly used instruments in experimental pharmacology	2.75	3	2	1			1	1	2	1	1	2
		C408.3	Illustrate the maintenance of laboratory animals	2.73	3	2	1			1	1	2	1	1	2
		C408.4	Explain common laboratory techniques like blood withdrawal etc	2.67	3	2	1			1	1	2	1	1	2
		C408.5	Estimate the effect of drugs with different animal models	2.75	3	2	1			1	1	2	1	1	2
		AVERAGE		2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70
41	BP 501T Medicinal Chemistry-II	C501.1	Summarize the chemistry of antihistaminic, H1- and H2 antagonists, Gastric Proton pump inhibitors, and antineoplastic drugs with respect to their pharmacological activity.	2.9	3	2	2	1		1	1	2	1		2
		C501.2	Outline the drug metabolic pathway, adverse effects, and therapeutic value of anti-anginal, diuretics, and antihypertensive drugs with their structure-activity relationship.	2.4	3	1	2	2		1	1	2	1		2
		C501.3	Know the structure-activity relationship of antiarrhythmic, antihyperlipidemic, coagulant-anticoagulants and drugs used in congestive heart failure.	2.4	3	2	2	2		1	1	2	1		2



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			CS01.4	Summarize the synthesis and effects of drugs acting on the endocrine system	2.4	3	1		2		1	1	2	1	1
			CS01.5	Explain the chemistry and physicochemical properties and metabolism of the antidiabetic and local anesthetic drugs.	2.4	1	2		1		2	1	2	1	1
			AVERA GE		2.4	2.4	2.4	2.4	2.4		2.4	2.4	2.4	2.4	2.4
42	BP502T	Industrial Pharmacy-I	CS02.1	Analyze various Preformulation parameters for different dosage forms (solid, liquid, etc.) including their physical and chemical properties.	2.2	3	2	2	2		1	1			2
			CS02.2	Explain formulation considerations (selection of excipients and their role in formulation) and evaluation parameters of tablets, capsules, pellets, and liquid orals.	2.2	3	1	1	1		2	1			2
			CS02.3	Outline formulation considerations (selection of excipients and their role in formulation) and evaluation parameters of parenteral and ophthalmic.	2.2	3	1	1	1		2	1			2
			CS02.4	Formulate various cosmetics preparations like lipsticks, shampoos, cold creams, vanishing creams, etc.	2.2	3	1		1		2	1			2
			CS02.5	Define, evaluate and perform quality control and stability studies of pharmaceutical aerosols. Explain various pharmaceutical packaging materials, containers, their quality-control tests, and stability aspects	2.2	3	1		1		2	1			2
			AVERA GE		2.2	2.2	2.2	2.2	2.2		2.2	2.2			2.2



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43	BP503T	Pharmacology-II	C503.1	Demonstrate the mechanism of drug action and its relevance in the treatment of the cardiovascular system.	2.2	3	1	1	1	1	3	3	2	3		
			C503.2	Explain the mechanism of drug action and its relevance in the treatment of the cardiovascular and urinary system.	2.3	3	1	1	1	1	3	3		2	3	
			C503.3	Illustrate the correlation of pharmacology with related to Antacids and related drugs.	2.4	3	1	1	1	1	3	3		2	3	
			C503.4	Relate and Impart the fundamental knowledge of the various aspect of a drug acting on the endocrine system	2.5	3	1	1	1	1	3	3		2	3	
			C503.5	Outline and emphasis the basic concept of bioassay.	2.5	3	1	1	1	1	3	3		3	3	
			AVERA GE		2.30		2.29	2.29	2.29	2.29		2.29	2.29		2.30	2.30
44	BP504T	Pharmacognosy and Phytochemistry-II	C504.1	Develop the knowledge about secondary metabolites produced in crude drugs. Outline the utilization of radioactive isotopes.	2.4	3		2	2		2	2	1	3	2	3
			C504.2	Explain the general introduction, composition, chemistry, therapeutic use, and application of secondary metabolites. Alkaloids, steroids, etc.	2.5	3		2			2	2	1	2	2	3
			C504.3	How to carry out the identification, isolation and analysis of Phytoconstituents	2.6	3		2	2		2	2	1	2	2	2
			C504.4	Relate Industrial production, estimation and utilization of Phytoconstituents	2.5	3		2	2		2	2	1	3	3	3
			C504.5	Summarize the basics of phytochemistry and herbal drug technology	2.5	3		2	2		2	2	1	2	3	3
			AVERA GE		2.90		2.55	2.57	2.48	2.57		2.54				
		C505.1	Rephrase and impart the knowledge of the drug and cosmetic act and its rule.	2.60	3					3	3	1	3	2		



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45	BPS05T	Pharmaceutical Jurisprudence	CS05.2	Detail study of the various parameter of the drug and cosmetic act and rules including various schedules, sale of drugs, labeling and packaging of drugs, administration of the act and rules.	2.50	3							3	3	1	3		1		
			CS05.3	Outline Pharmacy act with reference to medicinal and toilet preparation act, Narcotic Drugs and psychotropic substances act.	2.50	3									3	3	1	3		2
			CS05.4	Summarize the study of salient features of drugs and magic remedies act and its rules, Prevention of cruelty to animal act - 1960 along with National Pharmaceutical pricing authority	2.40	3									1	3	1	3		2
			CS05.5	Define pharmaceutical legislation, Code of ethics, medical termination of pregnancy act, Right to information act and Introduction to IPR during pharmaceutical practice.	2.50	3									3	3	1	3		2
			AVERA GE		2.52	2.52									2.52	2.52	2.52	2.52		2.90
46	BPS06P	Industrial Pharmacy-I	C 506.1	Explain the preformulation study of paracetamol/ aspirin or any drug	2.8	3	1	2	2	1	2							3		
			CS06.2	Formulate and evaluate solid dosage form (Paracetamol tablet/ Aspirin Tablet/ film coating tablet or granules / Tetracyclines capsules)	2.92	3	2	2	3	1	3	2								3
			CS06.3	Formulate liquid dosage form (Gluconate injection, Ascorbic acid injection and eye drop)	2.58	3	2	2	1	1	3	2								3
			CS06.4	Formulate semisolid dosage form (eye ointment, cold cream and vanishing cream)	2.86	3	2	2	1	1	3	1								3
			CS06.5	Evaluation of glass test as per IP	2.81	3	1	2	1	1	2	2								3





			AVERA GE	2.34	2.12	2.12	2.12		2.12	2.12	2.12	2.12	2.12		
51	BP-603T	Herbal Drug Techno logy	C603.1	Impart knowledge of herbs as raw materials, Biodynamic agriculture and the Indian System of Medicine.	2.4	3	1	2		2	1	2	2	2	
			C603.2	Outline the general market, scope, and types of products available in nutraceuticals and herb-drug-food interactions.	2.5	3	1	1		2	1	2	2	2	2
			C603.3	Explain the sources of and description of herbal cosmetics, herbal excipients and herbal formulations.	2.6	3	1	1		2	1	2	2	1	2
			C603.4	Analyze and developed Good manufacturing practices (GMP), patenting and regulatory aspects of herbal drugs.	2.4	3	2	1		2	1	2	2	1	2
			C603.5	Outline of plant-based industries and institutions involved in work on medicinal and aromatic plants in India along with schedule-T of drugs and cosmetics act.	2.5	3	1	1		2	1	2	2	1	2
			AVERA GE		2.50	2.57	2.57	2.88	2.52		2.54				
52	BP-604T	Biophar maceutic s and Pharmac okinetics	C604.1	Explain the concepts of biopharmaceutics and their applications in pharmaceutical development.	1.8	3	2	2	2		1	1	1	2	
			C604.2	Describe the kinetics of elimination. Explain the concept of bioavailability and Biorequivalence	1.8	3	1	2	1		2	1	1		2
			C604.3	Learn the use of plasma-level time data to calculate secondary pharmacokinetic parameters	1.8	3	1	2	1		1	1	1		2
			C604.4	Explain the concept of multicompartment models.	1.9	3	1	2	2		1	1	1		2
			C604.5	Appraisnon-linear pharmacokinetics with examples of drugs.	1.6	3	2	2	1		2	1	1		2





			AVERA GE		1.78	1.79	1.79	1.79			1.78	1.79	1.79			1.79	
53	BP-605T	Pharmaceutical Biotechnology	C605.1	Elaborate on the importance of enzymes biotechnology, Biosensors, Protein Egg, use of microbes in pharmaceutical industries	2.1	3			1	3	1	1	3	1	2	3	
			C605.2	Learn the use of genetic engineering techniques for the production of pharmaceuticals	2.1	3	2	2	3			1	2	1	3	2	2
			C605.3	outline the concept of Humoral Immunity and cellular immunity	2	3	1	2	3			2	2	1	2	2	2
			C605.4	Learn and outline the basic principles of immunology and how it is used for the production of vaccines and blood preservation techniques	1	3	3	2	3	1	2	3	3	3	1	3	2
			C605.5	Appraise the use of fermentation technology in the pharmaceutical industries	2	3	2	2	3	1	3	2	2	2	2	3	3
			AVERA GE		2.14	2.15	2.16	2.15	1.77			2.06	2.05				2.05
54	BP-606T	Pharmaceutical Quality Assurance	C606.1	Outline the cGMP, TQM, QbD, ISO and NABL accreditation aspects of the pharmaceutical industries	1.59	3	2	2			1	2	1			2	
			C606.2	Explain the important aspects of organization and personnel, premises and equipment and raw material.	2.01	3	2	2			1	2	1				2
			C606.3	Learn and outline the basic principles guidelines issued by various regulatory agencies on quality control and GLP	2.01	3	2	2			1	2	1				2
			C606.4	Appreciate the importance of documentation in the pharmaceutical industry.	2.01	3	2	2			1	2	1				2
			C606.5	Appraise calibration and validation techniques	2.02	3	2	2			1	2	1				2
			AVERA GE		2.01	2.01	2.01	2.01			2.01	2.01	2.01				2.01
			C607.1	Design and build drugs along with their intermediates	2.50	3	2	2		2	1	2	2			2	



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55	BP-607P	Medicinal Chemistry-III (Practical)	C607.2	Perform and understand the assay methods of some important antibiotics	1.50	3	2	2		2	1	2	2			2		
			C607.3	Perform the synthesis of important intermediates and drugs using microwave irradiation methods	2.30	3	2	2	2	2	1	2	2					2
			C607.4	Learn how to use the computer programs to draw chemical structures	1.50	3	2	2	2	2	1	2	2					2
			C607.5	Learn, apply and appraise Lipinski's rule of five using computer-assisted methods	2.60	3	2	2		2	1	2	2					2
			AVERA GE		2.48	2.48	2.48	2.48	2.60	2.48	2.48	2.48	2.48	2.48	2.48	2.48		
56	BP-608P	Pharmacology (Practical)	C608.1	Outline the concept of dose calculation in pharmacology experiments	2.54	3	2	2	1	1		1	2			2		
			C608.2	Demonstrate the action of drugs on the respiratory and gastrointestinal tract using software	2.60	3	2	2	1	1		1	2				2	
			C608.3	Determine acute toxicity of drugs by given data	2.6	3	2	2	1	1		1	2				2	
			C608.4	Illustrate calculation of Pharmacokinetic parameters	2.57	3	2	2	1	1			2				2	
			C608.5	Learn the application of biostatistics methods in experimental pharmacology	2.62	3	2	2	1	1			2				2	
			AVERA GE		2.60	2.60	2.60	2.60	2.60	2.60		2.60	2.60					2.60
57	BP-609P	Herbal Drug Technology (Practical)	C609.1	Perform preliminary phytochemical screening of crude drugs	2.50	3	2	2	1		2	1	2		1	3		
			C609.2	Evaluate the excipients of natural origin	2.82	3	2	2	1		2	1	2		1	3		
			C609.3	Perform monograph analysis of some pharmacopoeial drugs	2.83	3	2	2	2		2	1	2		1	3		
			C609.4	Prepare and standardize formulations containing crude drug extracts	2.77	3	2	2	2		2	1	2		1	3		
			C609.5	Analyze crude drugs for secondary metabolite content	2.83	3	2	2	2		2	1	2		1	3		
			AVERA GE		2.77	2.59	2.51	2.48	2.50		2.54		2.53	2.53			2.53	



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58	B.P.N.I.T	Instrumental methods of analysis	C.701.1	Extend knowledge of the introduction, instrumentation and applications of UV Visible Spectroscopy and Fluorimetry.	2403	3	2	2	3	2	1	2	1	3		
			C.701.2	Discuss the basic fundamental aspects of quantitative & qualitative analysis of drugs using various analytical instruments like IR Spectroscopy, Flame Photometry, atomic absorption Spectroscopy and Nepheloturbidimetry.	23573	3	2	2	3	2	1	2	2	3		
			C.701.3	Illustrate the principle and methodology of chromatographic separation by various techniques like Adsorption and partition column chromatography, TLC, Paper chromatography and Electrophoresis with their applications	2465	3	2	3	3	2	1	2	2	1	1	3
			C.701.4	Demonstrate the principle, instrumentation and analysis of compounds using GC and HPLC.	24073	3	3	3	3	2	2	1	2	1	1	3
			C.701.5	Explain the mechanism, instrumentation and applications of separation techniques i.e. ion exchange chromatography, Gel chromatography and affinity chromatography.	2326	3	3	3	2	1	1	2	1	1	2	
			AVERA GE		2401	2401	2401	2401	2401	2401	2401	2401	2401	2401	164	2401
			C.702.1	Define the process of pilot plant scale-up of techniques	237	2	3	1	1	2	2	2	3			
C.702.2	Outline the process of technology transfer from lab scale to commercial batch.	237	3	3	1	1	2	2	1	3						
C.702.3	Interpret regulatory affairs and regulatory requirements for the approval process of drug products.	237	3	2	1	1	2	2	2	1	1	3				



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59	BP702T	General Pharmacy II	C.702.4	Define quality management and certifications for quality like QbD, OOS, ISO, GLP etc.	28	3	2	1		1	2	2		2	1	3
			C.702.5	Develop concepts of different Laws and Acts that regulate the pharmaceutical industry as per Indian Regulatory Requirements like CDSCO, COPP etc	26	3	2	1		1	2	2		2	1	3
			AVERA GE		270	270	270	270		270	270	270		270	270	270
60	BP703T	Pharmacy Practice	C.703.1	Outline the organization, layout, and roles of the hospital and hospital pharmacy and community pharmacy. Analyzing the adverse drug reactions and managing them.	22	3	1	1	1	2	2	1	2	3		3
			C.703.2	Construct the concepts of drug distribution in hospitals and plan the hospital formulary. Infer the need for TDM and summarizing drug therapy of patient through medication chart review and community pharmacy management.	22	3	3	2	2	2	2	1	2	3		3
			C.703.3	Construction of Pharmacy and Therapeutics Committee, Interpretation of the sources of drug information services and prescription orders. Need for patient counseling and Importance of training and education program in hospital, Prescribed medication order and communication skills.	19	3	1	1	1	2	3		2	3		3
			C.703.4	Plan of budget preparation and its implementation, in clinical pharmacy. Identifying the OTC sales and Rational use of drugs.	23	2	1	1	1	2	3		2	3		3



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			C.703.5	Explain the drug store management and inventory control. Interpretation of laboratory results of specific diseases and summarizing the investigational use of drugs.	22	2	1	1	1	2	3		2	3	3	
			AVERA GE		2.14		2.12	2.12	2.12				2.12	2.12	2.12	2.12
61	BP704T	Novel Drug Delivery System	C.704.1	Relate the principles and rationale of drug delivery with the current and future approaches to controlled drug delivery and drug targeting using Polymers	240	3	2	1	3	1			1		1	
			C.704.2	Summarize microencapsulation and fabrication of mucosal and implantable drug delivery system	240	3	2	1	3	1			1		1	
			C.704.3	Demonstrate development of site-specific drug delivery like nasolungatory, transdermal drug delivery systems, GRDDS	250	3	2	1	3	1			1		1	
			C.704.4	Illustrate the targeted drug delivery system using liposomes, nanoparticles etc.	240	3	2	1	3	1			1		1	
			C.704.5	Distinguish site-specific drug delivery like ocular and intrauterine drug delivery systems.	240	3	2	1	1	1			1		1	
			AVERA GE		242	242	242	242	242	242			242		24	
62	BP705P	Instrumental methods of analysis (Practical)	C.705.1	Determination of absorption maxima of various organic compounds	280	3	3	3	3	2	2	1	2		2	
			C.705.2	Perform assay and simultaneous estimation by UV spectroscopy	270	3	3	3	3	2	2	1	2		2	
			C.705.3	Separation of compounds by Paper chromatography and TLC	280	3	3	3	3	2	2	1	2		2	
			C.705.4	Demonstrate the analysis of compounds using spectroscopic methods	260	3	3	3	3	2	2	1	2		1	



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			C.705.5	Demonstration of instrumentation of HPLC & Gas Chromatography	2.85	3	3	3	3	2	1	1	2				2
			AVERA GE		2.81	2.81	2.81	1.71	2.76		2.81	1.23					2.81
63	BP 801T	Biostatistics and Research Methodology	C.801.1	Know the various statistical technique, measures of central tendency, measures of dispersion and correlation	1.52	3	1	3	2	1			1				2
			C.801.2	Solve regression, probability and parametric test	1.48	3	1	3	2	1			1				2
			C.801.3	Appreciate non-parametric test need for research, graph and designing methodology	1.5	3	1	3	2	1			1				2
			C.801.4	Know the operation of regression modelling and practical components of industrial and clinical trial problems	1.52	3	1	3	2	1			1				2
			C.801.5	Know design and analysis of experiment	1.48	3											2
			AVERA GE		1.50	1.50	1.50	1.50	1.50	1.50			1.50				1.50
64	BP 802T	Social and Preventive Pharmacy	C.802.1	Know the concept of health and disease, health education, sociology, and hygiene	2.34	3	1	1	1	1		1	2	1			2
			C.802.2	Explain preventive medicines	2.34	3	1	1	1	1		1	2	1			2
			C.802.3	Outline the National health program, objective, functioning, and outcome	2.31	3	1	1	1	1		1	2	1			2
			C.802.4	Outline the National health program with reference to programs for mother and child, family welfare, tobacco control, malaria prevention, health care for elderly and the role WHO	2.28	3	1	1	1	1		1	2	3			2
			C.802.5	Explain community services in rural, urban, and school health	2.28	3	1	1	1		1	1	2	3			2
			AVERA GE		2.31	2.31	2.31	2.31	1.56		2.28	2.31	2.31	1.56			2.31
			C.809.1	Classify cosmetic and cosmeceutical products	1.8	3	1	1				1	2	2	2		2



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65	BP803T	Cosmetic Science	C.809.2	Explain principles of formulation and building blocks of skincare products, antiperspirants, deodorants, and hair care products	18	3	2	2			1	1	2	2	2		
			C.809.3	Explain the role of herbs in cosmetic and analytical cosmetics	18	3	1	2				1	1	2	2	2	
			C.809.4	Outline principles of cosmetic evaluations	2	3	2	2				1	2	2	2	2	
			C.809.5	Explain problems associated with hair and skin	2	3	1	1				2	1	2	1	2	
			AVERAGE		188		198	191	192				192	191	190		190
66	BP804T	Dietary Supplements and Nutraceuticals	C.812.1	Explain functional foods, nutraceuticals, and dietary supplements	2	3	1	1	1	1			1		1	2	
			C.812.2	Appreciate the components in dietary supplements and the application	2	3	1	1	1	1				1		1	2
			C.812.3	Know about free radicals, its production, and reaction in the diet	13	3	1	1	1	1				1		1	2
			C.812.4	Outline free radicals in various diseases, antioxidants, and functional food for chronic diseases prevention	2	3	1	1	1	1				1		1	2
			C.812.5	appreciate the regularity and commercial aspect of dietary supplements including health claims	2	3	1	1	1	1				1		1	2
		AVERAGE		198		196	196	196	196				196		196		
		DIRECT ASSESSMENT															
		Average		2.42	2.41	2.40	2.35	2.30	2.34	2.41	2.39	2.51	2.18	2.25	2.38		
		% Average		80.81	80.45	79.98	78.28	76.99	77.99	80.02	79.70	77.81	72.56	74.50	78.27		
		80% of direct assessment		1.94	1.93	1.92	1.88	1.84	1.87	1.94	1.91	1.87	1.74	1.78	1.90		
		% 80%		64.65	64.35	63.96	62.62	61.27	62.39	64.34	63.76	62.25	58.94	59.48	63.93		



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			AVERA GE		2.80	2.85	2.79	2.80	2.87	2.80	2.79	2.78				2.80	
47	BP507P	Pharmacology -II	C507.1	Relate the techniques and mechanism DRC of various drugs.	2.6	3	1	2	3	1	3	3			3	3	
			C507.2	Demonstrate isolation of different organs from the laboratory animal by simulated experiments.	2.1	3	1	2	3	1	3	3			3	3	
			C507.3	Demonstrate isolation of different tissues from the laboratory animal by simulated experiments.	2.4	3	1	2	3	1	3	3			3	3	
			C507.4	Demonstrate various receptor actions using isolated tissue preparation	2.6	3	1	2	3	1	3	3			3	3	
			AVERA GE		2.51	2.65	2.99	2.69	2.59	2.65	2.68	2.57				2.60	
48	BP508P	Pharmacognosy and Phytochemistry-II	C508.1	Evaluate the plants and phytochemicals from plant tissue culture on the basis of morphology, histology and characteristics	2.4	3	1	2	2	1	1	1			2	2	
			C508.2	Demonstrate isolation and detection of active constituents of various plants.	2.1	3	1	2	2	1	1	1			2	2	
			C508.3	Demonstrate identification, isolation and analysis of Phytoconstituents	2.4	3	1	2	2	1	1	1			2	2	
			C508.4	Demonstrate separation and detection of phytoconstituents with the help of TLC and paper chromatography	2.5	3	1	2	2	1	1	1			2	2	
			C508.5	Analyze the crude drug by chemical test	2.6	3	1	2	2	1	1	1			2	2	
			AVERA GE		2.52	2.53	2.51	2.48	2.53		2.54					2.53	
			C601.1	Outline the fundamentals of medicinal chemistry, SAR and synthesis of classical antibiotics like β lactam antibiotics, aminoglycosides and tetracyclines	1.43	3	2	1			1				2	1	2



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49	BP-601T	Medicinal Chemistry-III	C601.2	Classify, and outline the medicinal chemistry, SAR and synthesis of antibiotics, chemotherapeutic agents like macrolides, anti-malarial and prodrugs.	1.52	3	2	1			1		2	1	2		
			C601.3	Elaborate the medicinal chemistry, SAR and synthesis of antiviral, antitubercular drugs and urinary tract anti-infectives.	1.39	3	2	1			1		2	1	2		
			C601.4	Explain the medicinal chemistry, SAR and synthesis of antifungal drugs, anthelmintics, antiprotozoal and sulphonamide class of drugs.	1.42	3	2	1			1		2	1	2		
			C601.5	Explain the concepts of drug design, QSAR and combinatorial chemistry.	1.45	3	2	1			1		2	1	2		
			AVERA GE		1.44	1.44	1.42	1.34			1.44		1.37	1.37	1.44		
50	BP-602T	Pharmacology III	C602.1	Explain the pharmacology of drugs acting on the Respiratory and Gastrointestinal system	2.3	3	1	2			1		2	1	1		
			C602.2	Explain the mechanism of drug action and its relevance in the treatment of different infectious diseases and cancer	2	3	1	2			1		2	1	1		
			C602.3	Describe the chemotherapy of antitubercular agents, antifungal, antiviral, anthelmintics and antiamoebic agents.	2.3	3	1	2			1		2	1	1		
			C602.4	Describe the chemotherapy for UTI, STD and immunopharmacology	2.2	3	1	2			1		2	1	1		
			C602.5	Comprehend the principles of toxicology and treatment of various types of poisoning and the concept of immunopharmacology and chronopharmacology	2.1	3	1	2			1		2	1	1		




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**COURSE WISE FEED BACK
REPORTS**

College	IIP
Branch	B.Pharm
Sem	IVth
Session	2022-23
	Generate

SNo	Question	Feedback
1	Assessment and marking have been fair	87.13
2	Broadly educated and will have an understanding of ethical responsibilities	85.5
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life-long learning.	87.13
4	Course outcomes are clear in most courses.	86.2
5	Demonstrate basic knowledge of subject.	86.55
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	87.49
7	Demonstrate the ability to choose and apply appropriate resource management techniques	86.08
8	Faculty has made the subject interesting	89.94
9	Faculty is enthusiastic about what is taught	83.63
10	Faculty is good at explaining things	86.43
11	I have been able to contact faculty when I needed to	83.63
12	Overall I am satisfied with the quality of the course	87.84
13	Overall rating of the program	84.91
14	Proficient in English language in both communicative and technical forms	86.32




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15	Rate how challenging was the syllabus offered by the courses	85.03
16	Rate the adequateness of the textbooks and reference books mentioned for the courses	87.6
17	Rate the appropriateness of the sequence of the courses provided in the curriculum	86.9
18	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.	86.55
19	Rate the design of the courses in terms of Training & Placement;	87.49
20	Rate the percentage of learning ICT and Communication skills through courses offering;	87.13
21	Select and apply necessary modern instruments with an understanding of their limitations.	85.5
22	The ability to reach out and support the society through the training and activities offered	81.85
23	The criteria used in assessment have been clearly stated in advance	86.78
24	The relevant knowledge on the environment and sustainability	88.92




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**COURSE WISE FEED BACK
REPORTS**

College	IIP v
Branch	B.Pharm v
Sem	IIIrd v
Session	2022-23 v
	Generate

SNo	Question	Feedback
1	Assessment and marking have been fair	85.21
2	Broadly educated and will have an understanding of ethical responsibilities	84.26
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life-long learning.	86.38
4	Course outcomes are clear in most courses.	85.64
5	Demonstrate basic knowledge of subject.	83.94
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	87.13
7	Demonstrate the ability to choose and apply appropriate resource management techniques	85.64
8	Faculty has made the subject interesting	86.06
9	Faculty is enthusiastic about what is taught	82.98
10	Faculty is good at explaining things	87.77
11	I have been able to contact faculty when I needed to	85.64
12	Overall I am satisfied with the quality of the course	85.96
13	Overall rating of the program	86.7
14	Proficient in English language in both communicative and technical forms	84.04



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15	Rate how challenging was the syllabus offered by the courses	85.21
16	Rate the adequateness of the textbooks and reference books mentioned for the courses	87.66
17	Rate the appropriateness of the sequence of the courses provided in the curriculum	83.83
18	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.	85
19	Rate the design of the courses in terms of Training & Placement;	85.21
20	Rate the percentage of learning ICT and Communication skills through courses offering;	85
21	Select and apply necessary modern instruments with an understanding of their limitations.	86.06
22	The ability to reach out and support the society through the training and activities offered	80
23	The criteria used in assessment have been clearly stated in advance	85.43
24	The relevant knowledge on the environment and sustainability	89.87




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**COURSE WISE FEED BACK
REPORTS**

College	IIP
Branch	B.Pharm
Sem	IInd
Session	2022-23
	Generate

SNo	Question	Feedback
1	Assessment and marking have been fair	87.16
2	Broadly educated and will have an understanding of ethical responsibilities	83.92
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life -long learning.	84.02
4	Course outcomes are clear in most courses.	85.78
5	Demonstrate basic knowledge of subject.	84.31
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	85.88
7	Demonstrate the ability to choose and apply appropriate resource management techniques	87.16
8	Faculty has made the subject interesting	93.24
9	Faculty is enthusiastic about what is taught	88.24
10	Faculty is good at explaining things	83.63
11	I have been able to contact faculty when I needed to	83.53
12	Overall I am satisfied with the quality of the course	86.57
13	Overall rating of the program	92.65
14	Proficient in English language in both communicative and technical forms	85.1




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https://192.168.0.9/cms2/iipReportFeedback_course.aspx

15	Rate how challenging was the syllabus offered by the courses	85.1
16	Rate the adequateness of the textbooks and reference books mentioned for the courses	84.51
17	Rate the appropriateness of the sequence of the courses provided in the curriculum	85.78
18	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.	84.22
19	Rate the design of the courses in terms of Training & Placement. 	75
20	Rate the percentage of learning ICT and Communication skills through courses offering 	84.71
21	Select and apply necessary modern instruments with an understanding of their limitations.	85.98
22	The ability to reach out and support the society through the training and activities offered	84.13
23	The criteria used in assessment have been clearly stated in advance	87.35
24	The relevant knowledge on the environment and sustainability	96.74




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**COURSE WISE FEED BACK
REPORTS**

College	IIP
Branch	B.Pharm
Sem	1st
Session	2022-23
	Generate

SNo	Question	Feedback
1	Assessment and marking have been fair	81.33
2	Broadly educated and will have an understanding of ethical responsibilities	85.33
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life-long learning.	85
4	Course outcomes are clear in most courses.	82.33
5	Demonstrate basic knowledge of subject.	84.67
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	83
7	Demonstrate the ability to choose and apply appropriate resource management techniques	83.67
8	Faculty has made the subject interesting	85
9	Faculty is enthusiastic about what is taught	81.67
10	Faculty is good at explaining things	83.33
11	I have been able to contact faculty when I needed to	83
12	Overall I am satisfied with the quality of the course	85
13	Overall rating of the program	85.67
14	Proficient in English language in both communicative and technical forms	85



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15	Rate how challenging was the syllabus offered by the courses	88
16	Rate the adequateness of the textbooks and reference books mentioned for the courses	84.67
17	Rate the appropriateness of the sequence of the courses provided in the curriculum	84.67
18	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.	84.67
19	Rate the design of the courses in terms of Training & Placement;	86
20	Rate the percentage of learning ICT and Communication skills through courses offering;	85
21	Select and apply necessary modern instruments with an understanding of their limitations.	82.67
22	The ability to reach out and support the society through the training and activities offered	85
23	The criteria used in assessment have been clearly stated in advance	83.33
24	The relevant knowledge on the environment and sustainability	88.67




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PROGRAM WISE FEED BACK REPORTS

College	IIP
Branch	B.Pharm
Session	2022-23
	Generate

SNo	Question	Feedback
1	Ability to access and analyze information from a various primary and technological resources to foster the life-long learning	75.45
2	Ability to access and analyze information from a various primary and technological resources to foster the life-long learning	88
3	Ability to be creative, analytical and critical thinking in various occasions	84.44
4	Ability to work in groups on projects & earn leadership skills through this program	76.3
5	Advanced knowledge and skills appropriate to the programme.	90.37
6	Advanced oral and written communication skills to interact effectively	79.26
7	Can you able to manage projects by applying gained knowledge.	75.56
8	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life -long learning	76.3
9	Career Guidance and Campus Placement	77.78
10	Course objectives are clear in most courses	79.26
11	Develop analytical skills	78.52
12	Faculties are available when I need them	77.78
13	Faculties are good at explaining things	76.3
14	How helpful and accurate the career counseling is in your programme?	77.04



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15	I can able to design and conduct experiments for define the problems and provide solutions.	76.3
16	I can able to design novel projects regarding advance technologies in Pharmacy.	77.04
17	I can able to select modern sophisticated instruments with an understanding of their limitations	76.3
18	Internship Support	78.52
19	Knowledge of new and various methods, technologies and modern tool usage	82.96
20	Library access to reading materials	79.26
21	The ability to reach out and support the society through the training and activities offered	79.26
22	The ability to work as individual as well as collaborate with others and take lead to attain a common goal	82.22
23	The capacity to uphold the ethics and values of the profession through knowledge and training	81.48
24	The capacity to uphold the professional identity through relevant knowledge of the global perspectives	82.22
25	The planning ability to face the challenges that you encounter in the profession	85.93
26	The relevant knowledge on the environment and sustainability	78.52




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