

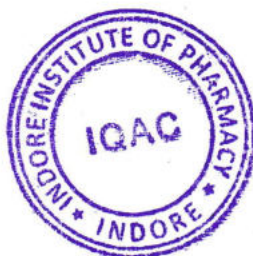
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2.6.2 Course Outcome Evaluation Process

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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% as per RGPV and PCI norms. 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 weighted 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".




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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.

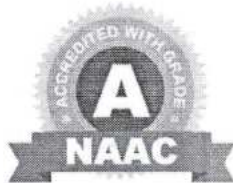
The attainment of POs is done individually for all courses and then at the year-end average is taken by the weighted average method. In direct assessment, sessional exam assessment and assignment given to students are used for calculation along with end semester exam results. These obtained attainments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

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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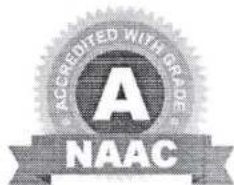
B.PHARM PO ATTAINMENT

ACADEMIC YEAR 2023-24

B.PHARM PO ATTAINMENT													
ACADEMIC YEAR 2023-2024													
Direct Assessment		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	
	Attainment		80.74	79.04	79.43	80.35	78.41	80.35	77.52	76.48	73.75	67.37	80.94
	80%	64.59	64.59	63.23	63.54	64.28	62.73	64.28	62.02	61.18	59.00	53.89	
Indirect Assessment		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	
	Course exit survey	88.50	88.05	89.22	88.48	91.72	89.04	88.26	88.99	87.76	97.73	87.71	
	Program exit survey	98.16	86.97	81.84	80.26	81.97	76.18	79.61	81.58	81.18	81.58	80.39	
	Average	93.33	87.51	85.53	84.37	86.84	82.61	83.93	85.29	84.47	89.66	84.05	
	20%	18.67	17.50	17.11	16.87	17.37	16.52	16.79	17.06	16.89	17.93	16.81	
PO Attainment for session 23-24		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	
		83.26	82.09	80.34	80.42	81.65	79.25	81.07	79.08	78.08	76.93	70.70	



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M.PHARM (PCS) PO ATTAINMENT

ACADEMIC YEAR 2023-24

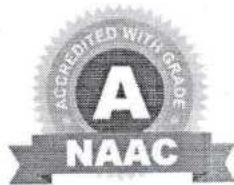
Direct Assessment		PO1	PO2	PO3
	Attainment	89.28	88.89	92.59
	80%	71.42	71.11	74.07

Indirect Assessment		PO1	PO2	PO3
	Course exit survey	93.28	94.28	98.18
	Program exit survey	78	80	90
	Average	85.64	87.14	94.09
	20%	17.13	17.43	18.82

PO Attainment for session (%)	PO1	PO2	PO3
	88.55	88.54	92.89




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M.PHARM (QA) PO ATTAINMENT

ACADEMIC YEAR 2023-24

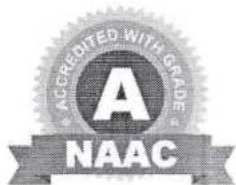
Direct Assessment		PO1	PO2	PO3
	Attainment	90.91	100.00	90.91
	80%	72.73	80.00	72.73

Indirect Assessment		PO1	PO2	PO3
	Course exit survey	93.28	94.28	98.18
	Program exit survey	78	80	90
	Average	85.64	87.14	94.09
	20%	17.13	17.43	18.82

PO Attainment for session 2023-24	PO1	PO2	PO3
	89.85	97.43	91.55



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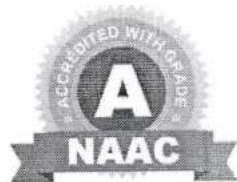
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B.Pharm PO attainment details

Indore Institute of Pharmacy																			
Program Outcome B.Pharm																			
ACADEMIC YEAR 2023-24																			
S. No.	Univ. Subject Code	Subject Name	CO	CO Description	CO Avg	P O1	P O2	P O3	P O4	P O5	P O6	P O7	P O8	P O9	P O10	P O11			
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	1.67	3	2	2	1	1			2			2			
			C101.2	Explain the gross morphology, structure, and functions of the human integumentary and skeletal system	1.7	3	2	2	1	1			2					2	
			C101.3	Summarize the gross morphology, structure, and functions of body fluids and the Lymphatic system.	1.52	3	2	2	1	1			2						2
			C101.4	Explain the morphology, structure, and functions of the peripheral nervous system and sense organs	1.68	3	2	2	1	1			2						2
			C101.5	Summarize the gross morphology, structure, and functions of CVS.	1.59	3	1	3	2	1	1	2	2	1	1	1	1	1	3
			AVERAGE		1.63	1.63	1.64	1.63	1.63	1.66	1.55	1.59	1.65	1.59	1.63	1.55	1.59	1.59	1.63
2	BP102T	Pharmaceutical Analysis I	C 102.1	Outline the basic concepts and techniques of pharmaceutical analysis	2.25	3	1	3	2	1	1	1	2	1	1	1	3		
			C102.2	Illustrate the principles and applications of acid-base titrations	1.03	3	1			1			2	1	1	1	1	3	
			C102.3	Development of analytical skills based on quantitative estimation	2.79	3	1			1			2	1	1	1	1	3	
			C102.4	Explain the fundamentals of redox titration	2.25	3	1		2	1			2	1	1	1	1	3	
			C102.5	Application of various volumetric and electrochemical methods	2.18	3	3	1		1	2	2			2				3
			AVERAGE		2.10	2.26	2.26	2.32	2.53	2.36	2.21	2.26	2.33	2.33	2.33	2.55	2.52	2.27	
3	BP103T	Pharmaceutics - I	C 103.1	Outline the history of pharmacy practice and pharmacopoeias	2.54	3	3	1		1	2	2		1			3		
			C103.2	Explain Solid dosage forms	2.14	3	3	1		1	2	2		2	1	1	3		
			C103.3	Summarize monophasic and biphasic systems.	1.36	3	2	1		1	2	2		2	1	1	3		
			C103.4	Explain and classify the concept of suppositories and pharmaceutical incompatibilities	2.58	3	2	1		1	2	2		2	1	1	3		
			C103.5	Summarize the concept of semisolid dosage forms.	2.67	3	1				1		2	1	1	1	3		
			AVERAGE		2.26	2.26	2.24	2.15			2.51	2.21	2.21	2.67	2.17	2.17	2.17	2.26	
4	BP104T	Pharmaceuti	C 104.1	Outline medicinal and pharmaceutical	2.54	3	1					1		2	2	1	2		



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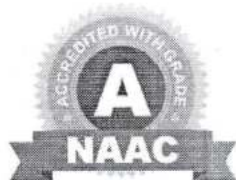
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13	BP112P	Remedial Biology	C.112.1	Demonstrate the basic concepts of experimental biology	3	3	2	1		1		2		2	
			C.112.2	Discuss the anatomy of the frog through computer-assisted techniques	3	3	2	1		1		2		2	
			C.112.3	Model physiological processes discussed in theory classes through experiments on normal human beings.	3	3	2	1		1		2		2	
			C.112.4	Identification and microscopic study of plant parts	3	3	2	1		1		2		2	
			AVERAGE		3.00	2.95	2.95	2.95	2.97	3		2.88	2.94		2.95
14	BP201T	HUMAN ANATOMY AND PHYSIOLOGY-II	C201.1	Explain nervous system organization	2.28 9473 68	3	2	1	1	1		1		1	
			C201.2	Illustrate the anatomy, regulation, and disorders of the Digestive system and energetics.	2.62 5	3	2	1	1	1		1		1	
			C201.3	Make use of knowledge related to the anatomy of the Respiratory system and Urinary system	2.19 2307 69	3	2	1	1	1		1		1	
			C201.4	Relate the interlinked classification, mechanism, and functions of the endocrine system	2.27 5862 07	3	2	1	1	1		1		1	
			C201.5	Explain the anatomy, physiology, and functions of the reproductive system and aspects of genetics.	2.68 4782 61	3	2	1	1	1		1		1	
			AVERAGE		2.81	3	3	2	3	3		1		3	
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	1.76	3	2				1	2		3	
			C202.3	Determining the reactivity and stability of various organic compounds	1.91	3	2				1	2		3	
			C202.4	Identification and confirmation of different organic compounds	1.92	3	2				1	2		3	
			C202.5	Evaluating the acidity and basicity of different organic compounds with their uses	2.02	3	2				1	2		3	
			AVERAGE		1.89	1.89	1.89				1.89	1.89		2.26	
16	BP203T	BIOCHEMISTRY	C203.1	Demonstrate and define fundamental principles and nature of biomolecules	1.3	3	1				1	2	1	3	
			C203.2	Outline and relate various metabolic pathways & their regulation in the body	1.73	3	1				1	2	1	3	
			C203.3	Understanding the metabolism of nutrient molecules in various physiological and pathological conditions	1.33	3	1				1	2	1	3	
			C203.4	Understand the genetic organization of the mammalian genome and functions of DNA in the synthesis of RNAs and proteins	1.46	3	1				1	2	1	3	
			C203.5	Discuss the catalytic role and therapeutic and diagnostic applications of enzymes.	1.2	3	1				1	2	1	3	
			AVERAGE		1.40	1.825	1.825				1.825	1.351	1.351	1.825	
17	BP204T	PATHOPHYSIOLOGY	C204.1	Outline principles of cell injury adaptation and explain the basic mechanism involved in the process of inflammation and repair	2.48	3	1	1	1	1		1		1	



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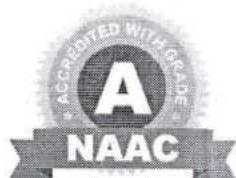
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			C204.2	The student will be able to understand the pathophysiology of cardiovascular, respiratory, and renal system	2.49	3	1	1	1	1	1	1	1	1	1	1	1	1	1
			C204.3	Classify and understand salient features related to the pathophysiology of hematological diseases, endocrine, nervous and gastrointestinal system	2.29	3	1	1	1	1	1	1	1	1	1	1	1	1	1
			C204.4	Define the etiology and pathophysiological mechanism of diseases like bones and joint disorder with principles of cancer	2.53	3	1	1	1	1	1	1	1	1	1	1	1	1	1
			C204.5	Understand the important complications of infectious and sexually transmitted diseases	2.61	3	1	1	1	1	1	1	1	1	1	1	1	1	1
			AVERAGE		2.49	2.257	2.257	1.344	2.263	2.257	2.257	2.257	2.257	2.257	2.257	2.257	2.257	2.257	2.257
18	BP205T	COMPUTER APPLICATION IN PHARMACY	C.205.1	Demonstrate the fundamentals of computer	2.0	1	1	2	2	1	1	1	1	1	1	1	1	1	1
			C.205.2	Define the web technologies and types of databases	2.5	3	1	2	2	1	1	1	1	1	1	1	1	1	1
			C.205.3	Explain the application of computers in pharmacy	2.3	3	1	2	2	1	1	1	1	1	1	1	1	1	1
			C.205.4	Outline the various applications of databases in pharmacy	2.4	3	1	2	2	1	1	1	1	1	1	1	1	1	1
			C.205.5	To know computer data analytics & preclinical development with application	2.4	3	1	2	2	1	1	1	1	1	1	1	1	1	1
			AVERAGE		2.30	3	3	3	3	3	3	3	3	3	3	3	3	3	3
19	BP206T	ENVIRONMENTAL SCIENCES	C.206.1	Create the awareness about natural sources and associated problem	2.36	3	1	2	2	1	1	1	1	1	1	1	1	1	1
			C.206.2	Construct basic knowledge about different types and functions of ecosystems	2.5	3	1	2	2	1	1	1	1	1	1	1	1	1	1
			C.206.3	Develop and learn the concept of environmental pollution	2.42	3	1	2	2	1	1	1	1	1	1	1	1	1	1
			AVERAGE		2.43	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
20	BP207P	HUMAN ANATOMY AND PHYSIOLOGY	C.207.1	Take part in the study of physiological processes by using models and specimen of a few organ systems of the human body	2.6	3	1	1	1	1	1	1	1	1	1	1	1	1	1
			C.207.2	Illustrate and experiment with human subjects to understand normal body functioning	2.7	3	1	1	1	1	1	1	1	1	1	1	1	1	1
			C.207.3	Outline family planning devices and pregnancy diagnostic methods	2.6	3	1	1	1	1	1	1	1	1	1	1	1	1	1
			C.207.4	Relate the histology of vital organs with the help of slides	2.7	3	1	1	1	1	1	1	1	1	1	1	1	1	1
			C.207.5	Construct blood report by using a cell analyzer	2.7	3	1	1	1	1	1	1	1	1	1	1	1	1	1
			AVERAGE		2.66	2.7	2.66	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
21	BP-208P	PHARMACEUTICAL ORGANIC CHEMISTRY-I	C.208.1	Take part in preliminary testing and functional group testing of organic compounds	2.1	3	2	1	2	2	1	2	2	1	2	2	1	2	3
			C.208.2	Test for melting point and boiling point of organic compounds	2.5	3	2	1	2	2	1	2	2	1	2	2	1	2	3
			C.208.3	Create derivatives of organic compounds	2.35	3	2	1	2	2	1	2	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	2	1	2	2	1	2	3
			AVERAGE		2.35	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360	2.360



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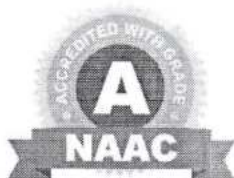
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						81				6	6	6							
22	BP-209P	BIOCHEMISTRY	C.209.1	Take part in qualitative analysis of biomolecules	2.78	3	2	1		2	2	2	2					2	
			C.209.2	Test for the presence of abnormal constituents in blood and urine	2.78	3	2	1		2	2	1	2						2
			C.209.3	Create buffers of various strengths for use in biochemistry practical	2.59	3	2	1		2	2	1	2						2
			C.209.4	Develop and learn methods for testing enzyme activity	2.91	3	2	1		2	2	1	2						2
			C.209.5	Demonstrate and related methods used in polymer degradation	1.91	3	2	1		2	2		2						2
			AVERAGE		2.59	1.57	1.57						1.57						
23	BP-210P	COMPUTER APPLICATION IN PHARMACY	C.210.1	Create HTML web-page	2.3	3	1	1	3	1	1		2	1				1	
			C.210.2	Design questionnaire, forms, and reports using MS-Access	2.6	3	1	1	3	1	1		2	1				1	
			C.210.3	Create invoice tables databases using MS-Access	2.2	3	1	1	3	1	1		2	1				1	
			C.210.4	Develop and learn methods for content export using web-pages	2.3	3	1	1	3	1	1		2	1				1	
			C.210.5	Demonstrate and relate methods for drug information retrieval using online tools	2.7	3	1	1	3	1	1		2	1				1	
			AVERAGE		2.87	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
24	BP-301T	PHARMACEUTICAL CHEMISTRY-III (ORGANIC CHEMISTRY-III)	C.301.1	Interpret the structure reactions and substituents of Benzene and its derivative	1.89	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 aromaticacids.	1.88	3	2			1	1		2					3	
			C.301.3	Elaborate various reactions and properties of fats and oils	1.83	3	2			1	1		2					3	
			C.301.4	Explain synthesis and uses of polynuclear hydrocarbons	1.93	3	2			1	1		2					3	
			C.301.5	Label general methods of preparation and reactions of Cyclo alkanes compounds	1.79	3	2			1	1		2					3	
			AVERAGE		1.86	1.86	1.86			1.86	1.86		1.86					1.86	
25	BP-302T	Physical Pharmaceutics I	C.302.1	Outline solubility and its application in pharmaceuticals	3	3	2	3	1		1	2	1	2				2	
			C.302.2	Explain the basic concept of states of matter with its properties and the Physicochemical properties of drug molecules.	2.14	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.	2.58	3	2	3	1		1	2	1	2				2	
			C.302.4	Explain the concept of complexation and protein binding.	2.8	3	2	3	1		1	2	1	1				2	
			C.302.5	Apply principles of pH, buffers, and isotonic solutions.	1.67	3	2	3	1		1	2	1	1				2	
			AVERAGE		2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44
26	BP-303T	Microbiology	C.303.1	Explain methods of identification, cultivation, and preservation of various microorganisms (Prokaryotes, Eukaryotes, and Bacteria)	2.6	3	2	3	1		1	1	1	1	1	1		3	



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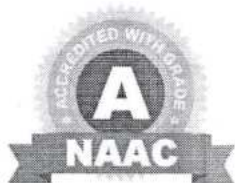


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			C.303.2	Interpret the importance and implementation of sterilization and aseptic conditions in pharmaceutical processing and industry	2.57	3	3	3	3	3	1	2	2	1	3	2		
			C.303.3	Define fungi and viruses and sterility testing of pharmaceutical products	2.49	3	1	1	3		1	1	1	2	2	2		
			C.303.4	Outline the cell culture technology, aseptic area, and methods of standardization.	2.62	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.	2.7	3	3	3	3		2	1	1	2	2	2		
			AVERA GE		2.60								2	2			2	
					2.6	2.6	2.6	2.6		6	5	2.5		6	2.6	2.6		
27	BP-304T	Pharmaceuti cal Engineering	C.304.1	Explain various operations of the flow of fluids, size reduction & size separation.	2.65	3	2	1	1		1	2	1	2		2		
			C.304.2	Relate the principles and operations involved in heat transfer, Evaporation, and Distillation.	2.69	3	2	1	1		1	2	1	3			2	
			C.304.3	Explain the concept of drying and mixing with theequipment used.	2.64	3	2	1	1		1	2	1	2			2	
			C.304.4	Outline the concept of Filtration and centrifugation with theequipment used.	2.7	3	2	3	1		1	1	1	1				
			C.304.5	Explain the concept of material of pharmaceutical plant construction, corrosion, and its prevention.	2.67	3	2	3	1		1	1	1	1			2	
			AVERA GE		2.67								2	2			2	
					2.6	2.6	2.6	2.6		6	6	2.6		6	2.67			
					7	7	8	7		7	7	7		7				
28	BP-305P	Pharmaceuti cal 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		2.98							2	2	2				
					2.9	2.9	2.9			9	9	2.9			2.98			
					8	8	8			8	8	8						
29	BP-306P	Physical Pharmaceuti cs I	C.306.1	Explain a basic understanding of solubility determination.	3	3	2	3	1		1	2	1	2		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		
			C.306.3	Determine the stability of the compounds by various methods	2.7	3	2	3	1		1	2	1	2		2		
			C.306.4	Determination of HLB number and CMC of surfactants.	2.6	3	2	3	1		1	2	1	1		2		
			AVERA GE		2.8							2	2			2		
					2.8	2.8	2.8	2.8		8	8	2.8		7	2.65			
					3	3	3	3		3	3	3		5				
30	BP-307P	Microbiology	C.307.1	Demonstrate and choose amongst different types of equipment and processing	2.35	3	2	2	3		2	2	1	1	2	2		
			C.307.2	Illustratethe art of sterilization of	3	3	2	2	2		1	2	1	1	2	2		





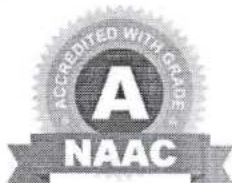
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			C.403.4	Illustrate the concept of micromeretics	2.73	3	2	2	1	1			2		2	
			C.403.5	Demonstrate the role of various physical and chemical factors in drug stability and reaction kinetics	2.72	3	2	2	1	1			2		2	
			AVERAGE		2.68	2.68	2.68	2.66	2.69	2.69			2.68		2.68	
35	BP-404T	PHARMACOLOGY	C.404.1	Infer principle concept of pharmacology	2.2	3	2	2	1	1			2		2	
			C.404.2	Relate and develop fundamentals of pharmacokinetics and pharmacodynamics	2.2	3	2	2	1	1			2		2	
			C.404.3	explain the pharmacology of drugs acting on the peripheral nervous system	2.3	3	2	2	1	1			2		2	
			C.404.4	Make use of pharmacology to study drug activity in CNS	2.3	3	2	2	1	1			2		2	
			C.404.5	Apply basic knowledge of pharmacology in the prevention and treatment of various diseases	2.3	3	1	2	1	1			2		2	
			AVERAGE		2.26	2.26	2.26	2.26	2.26	2.26			2.26		2.26	
36	BP-405T	PHARMACOLOGY and PHYTOCHEMISTRY-I	C405.1	Summarize general introduction of pharmacognosy, classification of crude drugs, and quality control of drugs of natural origin	2.69	3	1	1			1	1	2	1	1	2
			C405.2	Explain the cultivation, collection, processing, and storage of drugs of natural origin	2.62	3	1	1			1	1	2	1	1	2
			C405.3	Elaborate on the concept of plant tissue culture	2.5	3	1	1			1	1	2	1	1	2
			C405.4	Illustrate different systems of medicines and classification of secondary metabolites	2.67	3	1	1			1	1	2	1	1	2
			C405.5	Discuss pharmacognostic parameters of primary metabolites, plant products enzymes, proteins, enzymes, and marine drugs	2.7	3	1	1			1	1	2	1	1	2
			AVERAGE		2.64	2.64	1.1	2.64			2.64	2.64	2.65	1.2	2.64	
38	BP-406P	MEDICINAL CHEMISTRY-I	C.406.1	Assess synthesis and characterization of Benzimidazole having antimicrobial property	2.6	3	2	2			2	2	1	2	1	2
			C.406.2	Examine the antipyretic property of 1,3-pyrazole with Synthesis and Characterization	2.6	3	2	2			2	2	1	2	1	2
			C.406.3	Assess different drugs with Assay	2.7	3	2	2			2	2	1	2	1	2
			C.406.4	Estimate partition coefficient of any two drugs	2.6	3	2	2			2	2	1	2	1	2
			AVERAGE		2.625	2.66	2.66	2.66			2.66	2.66	2.66	2.66	2.66	2.66
39	BP-407P	PHYSICAL PHARMACEUTICS II	C407.1	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.	2.9	3	2	1			1	1	2	1	1	2
			C407.2	Explain rheology, different flow systems, and their importance in pharmaceuticals.	2.48	3	2	1			1	1	2	1	1	2
			C407.3	Examine the role of surfactant, surface tension, interfacial tension, and related properties of the drug during formulation.	2.6	3	2	1			1	1	2	1	1	2
			C407.4	Illustrate the concept of micromeretics	2.92	3	2	1			1	1	2	1	1	2



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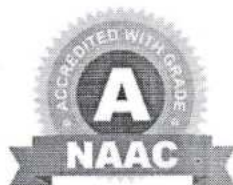
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			AVERA GE		2.73	2.7 3	2.7 3	2			2 6 7	2 7 3	2.4 5	2 7 3	2.7 3	2.73
40	BP-408P	PHARMAC OLOGY	C408.1	Identify and study common laboratory animals	2.4	3	2	1			1	1	2	1	1	2
			C408.2	Analyze commonly used instruments in experimental pharmacology	2.6	3	2	1			1	1	2	1	1	2
			C408.3	Illustrate the maintenance of laboratory animals	2.6	3	2	1			1	1	2	1	1	2
			C408.4	Explain common laboratory techniques like blood withdrawal etc	2.5	3	2	1			1	1	2	1	1	2
			C408.5	Estimate the effect of drugs with different animal models	2.7	3	2	1			1	1	2	1	1	2
			AVERA GE		2.56	2.5 6	2.5 6	2.5 6			2 5 6	2 5 6	2.6	2 5 6	2.5 6	2.56
37	BP-409P	PHARMAC OGNOSY -I	C.409.1	Understand the concept of swelling and foaming index	2.22	3	1	1			1					3
			C.409.2	Examine the chemical properties of different secondary metabolites	2.35	3	1	1			1					3
			C.409.3	Estimate different leaf constants	2.48	3	1	1			1					3
			C.409.4	Appraise the knowledge of quantitative microscopy	2.08	3	1	1			1					3
			C.409.5	Analyze the crud drugs on basis of physical parameters	2.97	3	1	1			1					3
			AVERA GE		2.42	2.4 2	2.4 2	2.4 1			2 4 2					2.42
41	BP 501T	Medicinal Chemistry- II	C 501.1	Summarize the chemistry of antihistaminic, H1 - and H2 antagonists, Gastric Proton pump inhibitors, and antineoplastic drugs with respect to their pharmacological activity.	2.32	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.	2.29	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	2.26	3	2	2	2		1	1	2	1		2
			C501.4	Summarize the synthesis and effects of drugs acting on the endocrine system	2.26	3	1		2		1	1	2	1		2
			C501.5	Explain the chemistry and physicochemical properties and metabolism of the antidiabetic and local anesthetic drugs.	2.27	3	2		1		2	1	2	1		2
			AVERA GE		2.28	2.2 8	2.4 3	2.2 9	2.4 2		2 7 3	2 2 8	2.2 8	2 2 8		2.28
42	BP502T	Industrial Pharmacy- I	C 502.1	Analyze various Preformulation parameters for different dosage forms (solid, liquid, etc.) including their physical and chemical properties.	2.7	3	2	2	2		1	1			2	
			C502.2	Explain formulation considerations (selection of excipients and their role in formulation) and evaluation parameters of tablets, capsules, pellets, and liquid orals.	2.58	3	1	1	1		2	1			2	
			C502.3	Outline formulation considerations (selection of excipients and their role in formulation) and evaluation parameters of parenteral and ophthalmic	2.67	3	1	1	1		2	1			2	



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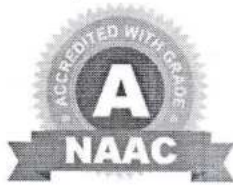


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			C502.4	Formulate various cosmetics preparations like lipsticks, shampoos, cold creams, vanishing creams, etc.	2.73	3	1		1		2	1						2			
			C502.5	Define, evaluate and perform quality control and stability studies of pharmaceutical aerosols. Explain various pharmaceutical packaging materials, containers, their quality-control tests, and stability aspects	2.72	3	1		1		2	1							2		
			AVERAGE		2.68			2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68		
43	BP503T	Pharmacology -II	C503.1	Demonstrate the mechanism of drug action and its relevance in the treatment of the cardiovascular system.	2.1	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	1	1	1	1	3	3			2					3	
			C503.3	Illustrate the correlation of pharmacology with related to Autacoids and related drugs.	1.7	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	2.1	3	1	1	1	1	3	3			2						3
			C503.5	Outline and emphasis the basic concept of bioassay.	2.2	3	1	1	1	1	3	3			3						3
			AVERAGE		2.02	2.6	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
44	BP504T	Pharmacognosy and Phytochemistry - II	C504.1	Develop the knowledge about secondary metabolites produced in crude drugs. Outline the utilization of radioactive isotopes.	2.1	3		2	2		2	2	1	2	2				3		
			C504.2	Explain the general introduction, composition, chemistry, therapeutic use, and application of secondary metabolites. Alkaloids, steroids, etc.	2	3		2			2	2	1	2	2					3	
			C504.3	How to carry out the identification, isolation and analysis of Phytoconstituents	1.7	3		2	2		2	2	1	2	2					2	
			C504.4	Relate Industrial production, estimation and utilization of Phytoconstituents	2.1	3		2	2		2	2	1	3	3					3	
			C504.5	Summarize the basics of phytochemistry and herbal drug technology	2.2	3		2	2		2	2	1	2	3					3	
			AVERAGE		2.02	2.3	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02
45	BP505T	Pharmaceutical Jurisprudence	C505.1	Rephrase and impart the knowledge of the drug and cosmetic act and its rule.	2.2	3					3	3	1	3					2		
			C505.2	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.	2.2	3							3	3	1	3				2	
			C505.3	Outline Pharmacy act with reference to medicinal and toilet preparation act, Narcotic Drugs and psychotropic substances act.	2	3							3	3	1	3					2
			C505.4	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	2.1	3							3	3	1	3					2
			C505.5	Define pharmaceutical legislation, Code of ethics, medical termination of pregnancy act, Right to information act and Introduction to IPR during pharmaceutical	2.2	3							3	3	1	3					2





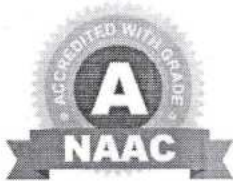
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Sl. No.	Code	Subject	Credits	Semester											
				1	2	3	4	5	6	7	8	9	10	11	12
		Pharmaceutical Industries	C605.2	2	3	2	2	3		1	2	1	3	2	2
			C605.3	2.1	3	1	2	3		2	2	1	2	2	2
			C605.4	1.9	3	3	2	3	1	2	2	3	2	3	2
			C605.5	1.9	3	2	2	3	1	3	2	2	2	3	3
			AVERA GE	1.98	1.9 8	1.9 5	1.9 7	1.9 7	1 5	1 7	1 7	1 9	1 7	1 5	1 8
54	BP-606T	Pharmaceutical Quality Assurance	C606.1	2.5	3	2	2			1	2	1		2	
			C606.2	2.5	3	2	2			1	2	1		2	
			C606.3	2.5	3	2	2			1	2	1		2	
			C606.4	2.5	3	2	2			1	2	1		2	
			C606.5	2.5	3	2	2			1	2	1		2	
			AVERA GE	2.50	2.8 4	2.8 4	2.8 4			2 4	2 4	2 4	2.8 4		2.84
55	BP-607P	Medicinal Chemistry – III (Practical)	C607.1	2.71	3	2	2		2	1	2	2		2	
			C607.2	2.29	3	2	2		2	1	2	2		2	
			C607.3	2.94	3	2	2	2	2	1	2	2		2	
			C607.4	2.53	3	2	2	2	2	1	2	2		2	
			C607.5	2.33	3	2	2		2	1	2	2		2	
			AVERA GE	2.56	2.5 6	2.5 2	2.5 6	2.5 6	2 6	2 5	2 5	2 5	2.5 6		2.55
56	BP-608P	Pharmacology (Practical)	C608.1	2.64	3	2	2	1	1		1	2		2	
			C608.2	2.63	3	2	2	1	1		1	2		2	
			C608.3	2.6	3	2	2	1	1		1	2		2	
			C608.4	2.57	3	2	2	1	1			2		2	
			C608.5	2.62	3	2	2	1	1			2		2	
			AVERA GE	2.61	2.8 4	2.8 4	2.8 4	2.8 4	2 4	2 8	2 4	2 4	2.8 4		2.84
57	BP-609P	Herbal Drug Technology	C609.1	2.9	3	2	2	1		2	1	2		1	3



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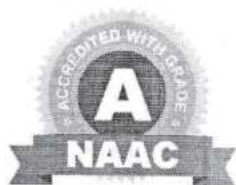
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		(Practical)	C609.2	Evaluate the excipients of natural origin	2.9	3	2	2	1	2	1	2	1	3
			C609.3	Perform monograph analysis of some pharmacopoeial drugs	2.8	3	2	2	2	2	1	2	1	3
			C609.4	Prepare and standardize formulations containing crude drug extracts	2.8	3	2	2	2	2	1	2	1	3
			C609.5	Analyze crude drugs for secondary metabolite content	2.8	3	2	2	2	2	1	2	1	3
			AVERAGE		2.84	2.5	2.85	2.7	2.85	2.55	2.55	2.55	2.55	2.55
58	BP701T	Instrumental methods of analysis	C.701.1	Extend knowledge of the introduction, instrumentation and applications of UV Visible Spectroscopy and Fluorimetry.	1.74	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 Nepheloturbidometry.	1.69	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	1.69	3	2	3	3	2	1	2	1	3
			C.701.4	Demonstrate the principle, instrumentation and analysis of compounds using GC and HPLC.	1.81	3	3	3	3	2	2	1	2	3
			C.701.5	Explain the mechanism, instrumentation and applications of separation techniques i.e. Ion exchange chromatography, Gel chromatography and affinity chromatography.	1.83	3	3	3	2	1	1	2	1	2
			AVERAGE		1.75	1.75	1.76	1.76	1.39	1.15	1.15	1.75	1.07	1.75
59	BP 702T	Industrial Pharmacy II	C.702.1	Define the process of pilot plant scale-up of techniques	1.74	3	3	1	1	2	2	2	1	3
			C.702.2	Outline the process of technology transfer from lab scale to commercial batch.	1.69	3	3	1	1	2	2	1	1	3
			C.702.3	Interpret regulatory affairs and regulatory requirements for the approval process of drug products.	1.69	3	2	1	1	2	2	2	1	3
			C.702.4	Define quality management and certifications for quality like QbD, OOS, ISO, GLP etc.	1.81	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	1.83	3	2	1	1	2	2	2	1	3
			AVERAGE		1.75	1.75	1.76	1.76	1.15	1.15	1.15	1.75	1.07	1.75
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.	2.24	3	1	1	1	2	3	1	2	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.	2.28	3	3	2	2	2	2	1	2	3



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			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.	2.13	2	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.	2.19	2	1	1	1	2	3	2	3	3
			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.	2.26	2	1	1	1	2	3	2	3	3
			AVERAGE		2.22	2.2	2.2	2.2	2.2	2	2	2	2	2
						2	3	2	2	0	2	5	2.9	4
						2	2	2	2	1	1	7	5	9
														2.22
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	2.09	3	2	1	3	1		1		1
			C.704.2	Summarize microencapsulation and fabrication of mucosal and implantable drug delivery system	2	3	2	1	3	1		1		1
			C.704.3	Demonstrate development of site-specific drug delivery like nasopulmonary, transdermal drug delivery systems, GRDDS	1.95	3	2	1	3	1		1		1
			C.704.4	Illustrate the targeted drug delivery system using liposomes, nanoparticles etc.	2.11	3	2	1	3	1		1		1
			C.704.5	Distinguish site-specific drug delivery like ocular and intrauterine drug delivery systems.	2.11	3	2	1	3	1		1		1
			AVERAGE		2.42	2.0	2.0	2.0	2.0	2	0	2.0		2.05
						5	5	5	5	5		5		
62	BP705P	Instrumental methods of analysis (Practical)	C.705.1	Determination of absorption maxima of various organic compounds	2.92	3	3	3	3	2	2	1	2	2
			C.705.2	Perform assay and simultaneous estimation by UV spectroscopy	2.7	3	3	3	3	2	2	1	2	2
			C.705.3	Separation of compounds by Paper chromatography and TLC	2.59	3	3	3	3	2	2	1	2	2
			C.705.4	Demonstrate the analysis of compounds using spectroscopic methods	2.85	3	3	3	3	2	2	1	2	2
			C.705.5	Demonstration of instrumentation of HPLC & Gas Chromatography	2.49	3	3	3	3	2	2	1	2	2
			AVERAGE		2.71	2.7	2.7	2.7	2.7	2	2	2	2.7	2.71
						1	1	1	1	1	1	1	1	
63	BP 801T	Biostatistics and Research Methodology	C.801.1	Know the various statistical technique, measures of central tendency, measures of dispersion and correlation	1.73	3	1	3	2	1		1		2
			C.801.2	Solve regression, probability and parametric test	1.59	3	1	3	2	1		1		2
			C.801.3	Appreciate non-parametric test need for research, graph and designing methodology	1.41	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	1.81	3	1	3	2	1		1		2
			C.801.5	Know design and analysis of experiment	1.8	3								2





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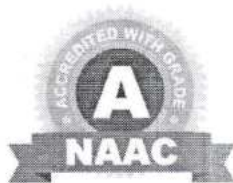
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			AVERAGE	1.67	1.67	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.67			
64	BP 802T	Social and Preventive Pharmacy	C.802.1	Know the concept of health and disease,health education ,sociology, and hygiene	2.21	3	1	1	1	1	1	1	1	2	3	2	
			C.802.2	Explain preventive medicines	2.29	3	1	1	1	1	1	1	1	1	2	3	2
			C.802.3	Outline the National health program, objective, functioning, and outcome	2.21	3	1	1	1	1	1	1	1	1	2	3	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	2.25	3	1	1	1	1	1	1	1	1	2	3	2
			C.802.5	Explain community services in rural, urban, and school health	2.25	3	1	1	1	1	1	1	1	1	2	3	2
			AVERAGE		2.24	2.24	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	2.24
65	BP803T	Cosmetic Science	C.809.1	Classify cosmetic and cosmeceutical products	2.78	3	1	1				1	2	2	2	2	
			C.809.2	Explain principles of formulation and building blocks of skincare products, antiperspirants, deodorants, and hair care products	2.69	3	2	2				1	1	2	2	2	2
			C.809.3	Explain the role of herbs in cosmetic and analytical cosmetics	2.31	3	1	2				1	1	2	2	2	2
			C.809.4	Outline principles of cosmetic evaluations	2.69	3	2	2				1	2	2	2	2	2
			C.809.5	Explain problems associated with hair and skin	1.78	3	1	3				2	1	2	1	1	2
			AVERAGE		2.45	2.45	2.77	2.35				2.04	2.53	2.45	2.52	2.45	2.45
66	BP804T	Dietary Supplements and Nutraceuticals	C.812.1	Explain functional foods, nutraceuticals, and dietary supplements	1.74	3	1	1	1	1	1			1	1	2	
			C.812.2	Appreciate the components in dietary supplements and the application	1.74	3	1	1	1	1	1			1	1	2	
			C.812.3	Know about free radicals, its production, and reaction in the diet	1.71	3	1	1	1	1	1			1	1	2	
			C.812.4	Outline free radicals in various diseases, antioxidants, and functional food for chronic diseases prevention	1.71	3	1	1	1	1	1			1	1	2	
			C.812.5	appreciate the regularity and commercial aspect of dietary supplements including health claims	1.7	3	1	1	1	1	1			1	1	2	
			AVERAGE		1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72

DIRECT ASSESSMENT	Average	2.41	2.422	2.371	2.383	2.411	2.35	2.410	2.326	2.294	2.213	2.02105	2.428
% Average	80.34	80.74	79.04	79.43	80.35	78.4113	80.35	77.52	76.48	73.75	67.37	80.94	
80% of direct assesment	1.93	1.94	1.90	1.91	1.93	1.88	1.93	1.86	1.84	1.77	1.62	1.94	
% 80%	64.27	64.59	63.23	63.54	64.28	1.88	64.28	62.02	61.18	59.00	53.89	64.75	



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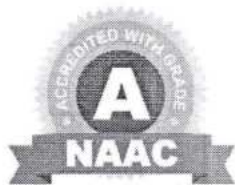
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M.PHARM (PCS) PO ATTAINMENT DETAILS

Indore Institute of Pharmacy								
Program Outcome M.Pharm Pharmaceutics								
ACADEMIC YEAR 2023-24								
S. No.	Univ. Subject Code	Subject Name	CO		CO Avg	PO1	PO2	PO3
1	MPH 101T	Modern Pharmaceutical Analytical Techniques	C.MPH1 01.1	Understand the basic knowledge on single and multiple component assay of pharmaceuticals	2.6	3		3
			C.MPH1 01.2	Developing basic practical skills using instrumentation techniques	2.6	3		3
			C.MPH1 01.3	Skills in selecting the suitable techniques for analysis of drugs and pharmaceuticals	2.6	3		3
			C.MPH1 01.4	Basics theoretical knowledge on various instrumental techniques available for analysis of organic substances	2.6	3	3	2
			C.MPH1 01.5	Applying the knowledge learnt in developing new procedures and comparing various methods of analysis	2.55	3	3	2
					2.59	3.0	3.0	3.0
2	MPH102 T	Drug Delivery Systems	C.MPH1 02.1T	To understand the various approaches for development of sustained and controlled drug delivery systems	2.88	3	2	3
			C.MPH1 02.2T	Demonstrate development of site-specific drug delivery like buccal patch/tablet, lozenges, osmotic	2.88	3	1	3



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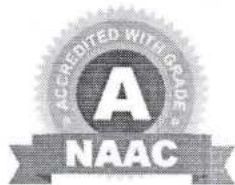
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				tablets.				
			C.MPH1 02.3T	Explain the design, fabrication and release mechanism of gastroretentive dosage form.	2	3	1	3
			C.MPH1 02.4T	Explain the concept of pelletization technology as a modulated drug delivery system.	2.25	3	1	3
			C.MPH1 02.5T	Outline the concept of ocular and transdermal drug delivery system.	2.13	3	1	3
					2.428	3	3	3
3	MPH103 T	Modern Pharmaceutics	C.MPH1 03.1T	To obtain knowledge of physical, chemical, and pharmaceutical factors affecting dosage forms, Preformulation concepts and optimization technique	3	2	1	3
			C.MPH1 03.2T	To recall the concept of pharmaceutical validation, scope & merits of validation, Validation and calibration master plan, ICH & WHO guidelines for calibration and validation	2.75	2	2	3
			C.MPH1 03.3T	Attain knowledge of cGMP & Industrial management	2.88	2	1	3
			C.MPH1 03.4T	To update with latest tablet technology and automation in manufacturing process., by understanding compression and compaction study	2.63	2	1	3
			C.MPH1 03.5T	To understand dissolution apparatus and dissolution testing of different types of dosage formulation and	2.25	3	1	3



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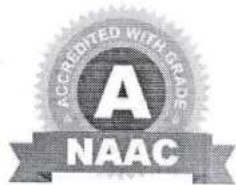
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				in-vitro and in vivo-correlation				
					2.702	3	3	3
4	MPH104 T	Regulatory Affair	C.MPH1 04.1T	Understand the concept of innovation and drug development process. Regulatory guidelines for filling and approval process. Maintenance of drug approval documentations.	3	3	1	1
			C.MPH1 04.2T	Learn the process of global approval documents. Post approval regulatory affairs. ICH guidelines and regulatory requirements of various countries.	3	3	2	2
			C.MPH1 04.3T	To learn process of clinical drug development and global submission of IND,NDA, ANDA.	3	3	2	3
			C.MPH1 04.4T	Learn and implement use of clinical trials protocol new requirements to clinical study process.Pharmacovigilance safety monitoring.	2.8	2	2	2
					2.95	3	3	3
5	MPH105 T	Pharmaceutics Practical -I	CO.MPH 105.1	Analysis of pharmacopoeial compounds and their formulations by UV Vis spectrophotometer	3	3	2	3
			CO.MPH 105.2	Explore the Experiments based on Gas Chromatography and HPLC	3	3	2	3
			CO.MPH 105.3	Perform the Preformulation studies of tablet dosage form and to Perform In –vitro dissolution of novel drug delivery systems like controlled release or sustained release	2.75	3	2	3




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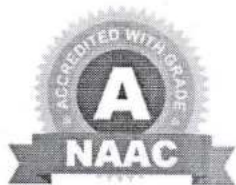
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				marketed formulation				
			CO.MPH 105.4	To study Micromeritic properties of powders and granulation.	2.75	3	2	3
			CO.MPH 105.5	To study the effect of binders on dissolution of a tablet.	2.5	3	2	3
					2.8	3	3	3
6	MPH201 T	MOLECULAR PHARMACEUTICS (NANO TECHNOLOGY & TARGETED DDS) (NTDS)	C.MPH2 01.1T	To relate the concept of Targeted Drug Delivery Systems	2.25	3	1	3
			C.MPH2 01.2T	Development of ability to prepare and evaluate nano particles & liposomes	2.38	3	1	3
			C.MPH2 01.3T	To summarize the basics of preparation and application of Niosomes, Aquasomes, Phytosomes, Electrosomes	2.29	2	1	3
			C.MPH2 01.4T	To recall the concepts of Pulmonary Drug Delivery Systems	3	3	1	3
			C.MPH2 01.5T	Better explain the concepts of Nucleic acid based therapeutic delivery system.	3	3	1	3
								2.584
7	MPH 202T	ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS	C.MPH2 02.1T	Development of ability to understand the concept of therapeutic response and toxicity, therapeutic index, therapeutic window, factors affecting plasma concentration.	2	2	1	3
			C.MPH2 02.2T	To summarize the basics of Compartment modeling including one, two and multiple compartment models and determination of various pharmacokinetic	2	2	2	3



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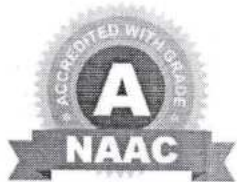


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				parameters.				
			C.MPH2 02.3T	To relate the concept of Non-linear pharmacokinetics and recognition of non linearity, circadian rhythm and chronopharmacokinetics, other reasons for non-linearity.	2.2	2	1	3
			C.MPH2 02.4T	Better explain the concepts of physiologic pharmacokinetic model and to define mean time (MRT) statistical moment theory, Mean absorption time (MAT) Mean Dissolution time (MDT).	2.3	2	1	3
			C.MPH2 02.5T	To recall the concepts of absorption distribution and renal excretion, hepatic clearance and elimination, bioavailability and bioequivalence	2.3	3	1	3
					2.16	2	2	2
8	MPH203 T	COMPUTER AIDED DRUG DESIGN	C.MPH2 03.1T	To understand use of computer in pharmaceutical research and statistical modelling. To understand importance of quality attributes in pharmaceutical industry.	3	3	-	1
			C.MPH2 03.2T	To brief about modelling in drug disposition techniques and transport mechanism	3	3	1	3
			C.MPH2 03.3T	Applications of Computers in pharmaceutical product	2.7	3	1	2





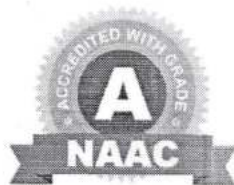
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				development and factorial design.				
			C.MPH2 03.4T	Attain the knowledge of computer aided clinical methodologies used in biopharmaceutical studies and simulation in ADME	2.4	3	1	3
			C.MPH2 03.5T	Upgradation of the knowledge by studying the use of automation in pharmaceutical industry and applications of artificial intelligence.	1.75	3	1	3
					2.57	2	3	2
9	MPH 204T	COSMETICS AND COSMECEUTICALS	C.MPH2 04.1T	Understanding of basic of cosmetic products as per Indian regulation.	3	3	1	3
			C.MPH2 04.2T	Define the biological aspects cosmetic in relation skin and hair structure?	3	3	1	3
			C.MPH2 04.3T	Attain the knowledge the formulation consideration of skin care preparations?	3	2	1	3
			C.MPH2 04.4T	Summarize the cosmeceutical products and sunscreen preparations?	3	3	1	3
			C.MPH2 04.5T	Applications of the Herbal Cosmetics	3	3	1	3
								3
10	MPH 205 P	PHARMACEUTICAL PRACTICALS -II	CO.MPH 205.1	Estimate general considerations, methods of preparation, characterization and applications of Liposomes, Niosomes, Alginate beads, albumin microspheres and spherules	3	3	2	3
			CO.MPH 205.2	Formulate and evaluate Creams, Shampoo and Toothpaste	3	3	2	3
			CO.MPH	Perform the	3	3	2	3



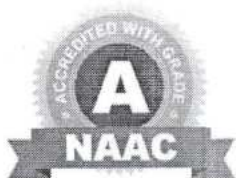
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			205.3	Bioavailability studies of Paracetamol in animals				
			CO.MPH 205.4	To explore the knowledge of DoE Using Design Expert® Software	3	3	2	3
			CO.MPH 205.5	Protein binding studies of a highly protein bound drug & poorly protein bound drug	3	3	2	3
					3	2	2	2
11	MPH301 T	Research Methodology & Biostatic	C.MPH 301.1	Identify the overall process of designing and research study from its inception to its report.	3	3		3
			C.MPH 301.2	Familiar with ethical issues in educational research, including those issues that arise in using quantitative and qualitative research	3	3	2	3
			C.MPH 301.3	Identify a research problem stated in a study	3	3	3	3
			C.MPH 301.4	Identify the need for educational research undertaken and the audience that profits from research studies.	3	3	3	3
					3	3	3	3

AVERAGE OF DIRECT ASSESMENT	2.68	2.7	2.8
% AVERAGE OF DIRECT ASSESMENT	89.28	88.8889	92.593





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Indore Institute of Pharmacy								
Program Outcome M.Pharm Quality Assurance								
ACADEMIC YEAR 2023-24								
S. No.	Univ. Subject Code	Subject Name	CO		CO Avg	PO1	PO2	PO3
1	MQA 101T	Modern Analytical Technique	MQA101.1	Understand the basic knowledge on single and multiple component assay of pharmaceuticals	2.6	3		3
			MQA101.2	Developing basic practical skills using instrumentation techniques	2.6	3		3
			MQA101.3	Skills in selecting suitable techniques for the analysis of drugs and pharmaceuticals	2.6	3		3
			MQA101.4	Basics theoretical knowledge on various instrumental techniques available for analysis of organic substances	2.6	3	3	2
			MQA101.5	Applying the knowledge learned in developing new procedures and comparing various methods	2.6	3		2





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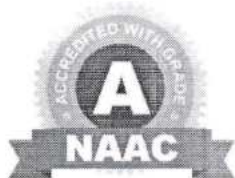
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				of analysis				
					2.6	3	3	3
	MQA102T	Quality Management System	MQA102.1	Understand the quality parameters and quality attribute in Pharmaceutical industry sectors	2.6	2		3
			MQA102.2	Learning the various tools for quality improvement	2.6	2		3
			MQA102.3	Knowing the Importance of the quality of medicines in the public.	2.6	2		3
			MQA102.4	Regulatory body requirements for the import and export pharmaceutical products	2.6	2		3
			MQA102.5	Knowledge of stability testing of drug and drug substances	2.6	2		3
2							2.6	3
	MQA103T	Quality Control and Quality Assurance	MQY-103.1	Understand the cGMP aspects in a pharmaceutical industry	1.7	2		3
			MQY-103.2	Understand GLP and regulatory Affairs	1.7	2		3
3			MQY-103.3	Appreciate the importance of documentation	1.7	2		3



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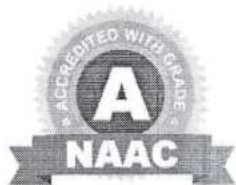
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			MQY-103.4	Understand the responsibilities of QA & QC departments	1.7	2		3
			MQY-103.5	Appreciate the importance of documentation	1.7	2		3
					1.7	1		1
			MQA-104.1	Understand the new product development process	2.6	2		3
			MQA-104.2	Explain information to transfer technology from R&D to actual manufacturing	2.6	2		3
		Product Development and Technology Transfer	MQA-104.3	Elucidate necessary information to transfer technology of existing products between various manufacturing places	2.6	2		3
			MQA-104.4	Understand the Quality by design practices of sterile and non sterile dosage forms	2.6	2		3
			MQA-104.5	Understand the practices of packaging technology	2.6	2		3
4					2.6	3		3
5	MQA105P	Pharmaceutical Quality	MQA-105.1	Estimation of process capability	3	2		3



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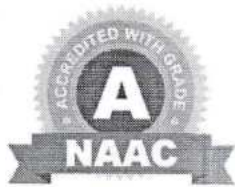
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	Assurance Practical-I	MQA-105.2	In process and finished product quality control tests for tablets, capsules, parenteral and semisolid dosage forms	3	2	3	
		MQA-105.3	Estimation of drug in pharmaceutical by using modern analytical techniques	3	3	3	
		MQA-105.4	Development of Stability study protocol for pharmaceuticals	3	3	3	
		MQA-105.5	To carry out preformulation study for successful formulation of pharmaceuticals	3	3	3	
				3	3	3	
6	MQA201T	Hazards and Safety Management	MQA-201.1	Understand, determine and to take control measures to eliminate or minimize the level of the risks	2	2	3
			MQA-201.2	Support the student to recognize the control measures to eliminate or minimize the level of the risks	2	2	3
			MQA-201.3	Ensure safety standards in	2	2	3




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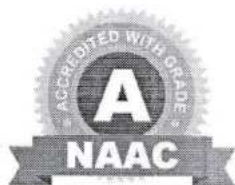
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				instruments				
					2.6	3		3
	MQA203T	Audits and Regulatory Compliance	MQA203.1	To understand the importance of auditing in pharmaceuticals	2.6	2		3
			MQA203.2	To understand the methodology of auditing for pharmaceutical industry	2.6	2		3
			MQA203.3	To prepare the check list for auditing	2.6	2		3
			MQA203.4	To carry out the audit process	2.6	2		3
8						2.6	3	
	MQA204T	Pharmaceutical Manufacturing Technology	MQA204.1	Knowledge of common practice in the pharmaceutical industry developments, plant layout and production planning	2.6	2		3
			MQA204.2	Knowledge of principles and practices of aseptic process technology, non-sterile manufacturing technology and packaging technology	2.6	2		3
			MQA204.3	Explaining principles and implementation of Quality by design (QbD) and process	2.6	2		3



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				analytical technology (PAT) in pharmaceutical manufacturing				
			MQA204.4	Understand the practices of packaging technology	2.6	2		3
			MQA204.5	Understand the practices of aseptic process technology	2.6	2		3
					2.6	3		3
			MQA205.1	Validation of an analytical method for pharmaceuticals	3	3		3
			MQA205.2	Qualification of Pharmaceutical Testing Equipment	3	3		3
			MQA205.3	Design of plant layout: Sterile and non-sterile	3	3		3
			MQA205.4	Case study on application of QbD	3	3		3
			MQA205.5	Identification & estimation of drug in pharmaceuticals & assess the impurities	3	2		3
10	MQA205P	Pharmaceutical Quality Assurance Practical-II			3	3		3
			C.MPH 301.1	Identify the overall process of designing and research study from its inception to its report.	3	3		3
11	MPH301T	Research Methodology & Biostatic	C.MPH 301.2	Familiar with ethical issues in	3	3	2	3



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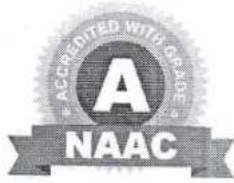
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			educational research, including those issues that arise in using quantitative and qualitative research				
		C.MPH 301.3	Identify a research problem stated in a study	3	3	3	3
		C.MPH 301.4	Identify the need for educational research undertaken and the audience that profits from research studies.	3	3	3	3
				3	3	3	3

	AVERAGE	PO1	PO2	PO3
AVERAGE OF DIRECT ASSESMENT	2.572727	2.727	3	2.7272727
% AVERAGE OF DIRECT ASSESSMENT	85.75758	90.91	100	90.909091




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COURSE WISE FEEDBACK REPORT

B.PHARM

Firefox

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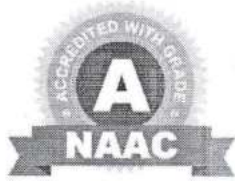
	INDORE INSTITUTE OF PHARMACY, INDORE	
COURSE WISE FEED BACK REPORTS		

College	IIP
Branch	B.Pharm
Sem	1st
Session	2023-24
Generate	

SNo	Question	Feedback
1	Assessment and marking have been fair	85.83
2	Broadly educated and will have an understanding of ethical responsibilities	83.69
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life -long learning.	81.55
4	Course outcomes are clear in most courses.	86.6
5	Demonstrate basic knowledge of subject.	84.08
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	83.5
7	Demonstrate the ability to choose and apply appropriate resource management techniques	83.3
8	Faculty has made the subject interesting	82.72
9	Faculty is enthusiastic about what is taught	81.55
10	Faculty is good at explaining things	80.39
11	I have been able to contact faculty when I needed to	79.42
12	Overall I am satisfied with the quality of the course	86.6
13	Overall rating of the program	77.09



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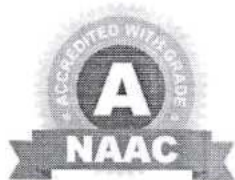
Firefox

https://192.168.0.9/cms2/iipReportFeedback_course.aspx

14	Proficient in English language in both communicative and technical forms	81.75
15	Rate how challenging was the syllabus offered by the courses	85.24
16	Rate the adequateness of the textbooks and reference books mentioned for the courses	83.88
17	Rate the appropriateness of the sequence of the courses provided in the curriculum	85.24
18	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.	82.72
19	Rate the design of the courses in terms of Training & Placement. #160;	85.44
20	Rate the percentage of learning ICT and Communication skills through courses offering #160;	81.17
21	Select and apply necessary modern instruments with an understanding of their limitations.	83.5
22	The ability to reach out and support the society through the training and activities offered	90.49
23	The criteria used in assessment have been clearly stated in advance	80.97
24	The relevant knowledge on the environment and sustainability	98.64




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Firefox

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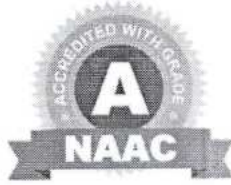
COURSE WISE FEED BACK REPORTS

College	IIP
Branch	B.Pharm
Sem	IInd
Session	2023-24
Generate	

SNo	Question	Feedback
1	Assessment and marking have been fair	89.35
2	Broadly educated and will have an understanding of ethical responsibilities	88.04
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life -long learning.	89.35
4	Course outcomes are clear in most courses.	89.72
5	Demonstrate basic knowledge of subject.	90.28
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	90.84
7	Demonstrate the ability to choose and apply appropriate resource management techniques	89.16
8	Faculty has made the subject interesting	92.34
9	Faculty is enthusiastic about what is taught	93.46
10	Faculty is good at explaining things	89.53
11	I have been able to contact faculty when I needed to	89.72
12	Overall I am satisfied with the quality of the course	87.1
13	Overall rating of the program	98.5




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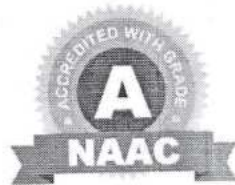
Firefox

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14	Proficient in English language in both communicative and technical forms	89.91
15	Rate how challenging was the syllabus offered by the courses	89.53
16	Rate the adequateness of the textbooks and reference books mentioned for the courses	93.27
17	Rate the appropriateness of the sequence of the courses provided in the curriculum	92.15
18	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.	89.53
19	Rate the design of the courses in terms of Training & Placement.	89.72
20	Rate the percentage of learning ICT and Communication skills through courses offering.	93.46
21	Select and apply necessary modern instruments with an understanding of their limitations.	92.34
22	The ability to reach out and support the society through the training and activities offered	88.41
23	The criteria used in assessment have been clearly stated in advance	89.91
24	The relevant knowledge on the environment and sustainability	97.76




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Firefox

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INDORE INSTITUTE OF PHARMACY, INDORE



COURSE WISE FEED BACK REPORTS

College	IIP
Branch	B.Pharm
Sem	IIIrd
Session	2023-24
Generate	

SNo	Question	Feedback
1	Assessment and marking have been fair	88.87
2	Broadly educated and will have an understanding of ethical responsibilities	91.58
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life-long learning.	89.17
4	Course outcomes are clear in most courses.	88.57
5	Demonstrate basic knowledge of subject.	89.62
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	91.43
7	Demonstrate the ability to choose and apply appropriate resource management techniques	89.47
8	Faculty has made the subject interesting	89.32
9	Faculty is enthusiastic about what is taught	89.47
10	Faculty is good at explaining things	86.77
11	I have been able to contact faculty when I needed to	88.57
12	Overall, I am satisfied with the quality of the course	87.67
13	Overall rating of the program	93.08



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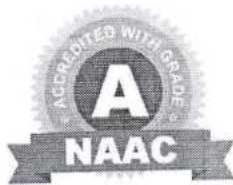
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Register - Under: UGC 2(F)

Firefox

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14	Proficient in English language in both communicative and technical forms	91.13
15	Rate how challenging was the syllabus offered by the courses	87.97
16	Rate the adequateness of the textbooks and reference books mentioned for the courses	92.93
17	Rate the appropriateness of the sequence of the courses provided in the curriculum	89.47
18	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.	89.92
19	Rate the design of the courses in terms of Training & Placement. 	92.93
20	Rate the percentage of learning ICT and Communication skills through courses offering 	92.63
21	Select and apply necessary modern instruments with an understanding of their limitations.	89.62
22	The ability to reach out and support the society through the training and activities offered	93.38
23	The criteria used in assessment have been clearly stated in advance	89.47
24	The relevant knowledge on the environment and sustainability	97.44





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Register - Under UGC 2(F)

Firefox

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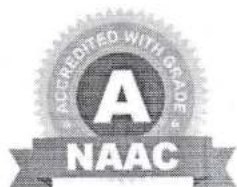
COURSE WISE FEED BACK REPORTS

College	IIP
Branch	B.Pharm
Sem	IVth
Session	2023-24
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SNo	Question	Feedback
1	Assessment and marking have been fair	87.78
2	Broadly educated and will have an understanding of ethical responsibilities	89.72
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life-long learning.	89.58
4	Course outcomes are clear in most courses.	89.58
5	Demonstrate basic knowledge of subject.	90
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	91.11
7	Demonstrate the ability to choose and apply appropriate resource management techniques	90.28
8	Faculty has made the subject interesting	91.53
9	Faculty is enthusiastic about what is taught	90.69
10	Faculty is good at explaining things	90.97
11	I have been able to contact faculty when I needed to	90.28
12	Overall I am satisfied with the quality of the course	89.03
13	Overall rating of the program	90.56




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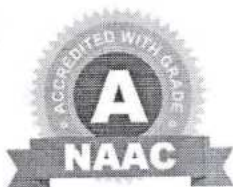
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Register - Under UGC 201

Firefox

https://192.168.0.9/cms2/iipReportFeedback_course.aspx

14	Proficient in English language in both communicative and technical forms	91.53
15	Rate how challenging was the syllabus offered by the courses	89.72
16	Rate the adequateness of the textbooks and reference books mentioned for the courses	90.56
17	Rate the appropriateness of the sequence of the courses provided in the curriculum	90.28
18	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.	90.28
19	Rate the design of the courses in terms of Training & Placement. 	92.64
20	Rate the percentage of learning ICT and Communication skills through courses offering 	93.75
21	Select and apply necessary modern instruments with an understanding of their limitations.	88.47
22	The ability to reach out and support the society through the training and activities offered	94.58
23	The criteria used in assessment have been clearly stated in advance	90.69
24	The relevant knowledge on the environment and sustainability	97.08





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COURSE WISE FEEDBACK REPORT

M.PHARM

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COURSE WISE FEED BACK REPORTS		

College	IIP
Branch	M.Pharm
Sem	Ist
Session	2023-24
Generate	

SNo	Question	Feedback
1	Assessment and marking have been fair	88
2	Broadly educated and will have an understanding of ethical responsibilities	92
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life -long learning.	98
4	Course outcomes are clear in most courses.	88
5	Demonstrate basic knowledge of subject.	90
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	94
7	Demonstrate the ability to choose and apply appropriate resource management techniques	94
8	Faculty has made the subject interesting	94
9	Faculty is enthusiastic about what is taught	98
10	Faculty is good at explaining things	100
11	I have been able to contact faculty when I needed to	98
12	Overall I am satisfied with the quality of the ^a course	88
13	Overall rating of the program	94

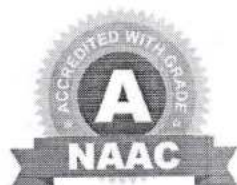



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14	94	Proficient in English language in both communicative and technical forms
15	94	Rate how challenging was the syllabus offered by the courses
16	98	Rate the adequateness of the textbooks and reference books mentioned for the courses
17	90	Rate the appropriateness of the sequence of the courses provided in the curriculum
18	94	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.
19	90	Rate the design of the courses in terms of Training & Placement;#160;
20	92	Rate the percentage of learning ICT and Communication skills through courses offering;#160;
21	92	Select and apply necessary modern instruments with an understanding of their limitations.
22	98	The ability to reach out and support the society through the training and activities offered
23	94	The criteria used in assessment have been clearly stated in advance
24	100	The relevant knowledge on the environment and sustainability

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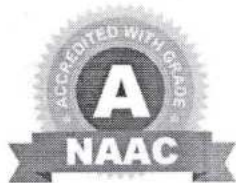
	INDORE INSTITUTE OF PHARMACY, INDORE	
COURSE WISE FEED BACK REPORTS		

College	IIP
Branch	M.Pharm
Sem	IIInd
Session	2023-24
Generate	

SNo	Question	Feedback
1	Assessment and marking have been fair	90.91
2	Broadly educated and will have an understanding of ethical responsibilities	89.09
3	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life-long learning.	96.36
4	Course outcomes are clear in most courses.	92.73
5	Demonstrate basic knowledge of subject.	92.73
6	Demonstrate the ability to apply advanced technologies to solve contemporary and new problems.	94.55
7	Demonstrate the ability to choose and apply appropriate resource management techniques	96.36
8	Faculty has made the subject interesting	92.73
9	Faculty is enthusiastic about what is taught	94.55
10	Faculty is good at explaining things	94.55
11	I have been able to contact faculty when I needed to	96.36
12	Overall I am satisfied with the quality of the course	90.91
13	Overall rating of the program	94.55




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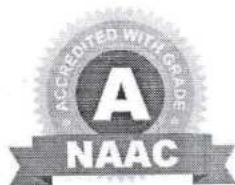
Firefox

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14	Proficient in English language in both communicative and technical forms	92.73
15	Rate how challenging was the syllabus offered by the courses	90.91
16	Rate the adequateness of the textbooks and reference books mentioned for the courses	94.55
17	Rate the appropriateness of the sequence of the courses provided in the curriculum	94.55
18	Rate the depth of the syllabus of the courses in relation to the competencies expected by industry/ current global scenario.	98.18
19	Rate the design of the courses in terms of Training & Placement. 	96.36
20	Rate the percentage of learning ICT and Communication skills through courses offering 	98.18
21	Select and apply necessary modern instruments with an understanding of their limitations.	94.55
22	The ability to reach out and support the society through the training and activities offered	96.36
23	The criteria used in assessment have been clearly stated in advance	92.73
24	The relevant knowledge on the environment and sustainability	94.55




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PROGRAM WISE FEEDBACK REPORT

B.PHARM

Firefox

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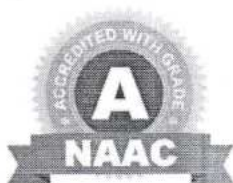
	INDORE INSTITUTE OF PHARMACY, INDORE	
PROGRAM WISE FEED BACK REPORTS		

College	IIP
Branch	B.Pharm
Session	2023-24
Generate	

SNo	Question	Feedback
1	Ability to access and analyze information from a various primary and technological resources to foster the life-long learning	80.39
2	Ability to be creative, analytical and critical thinking in various occasions	81.84
3	Ability to work in groups on projects & earn leadership skills through this program	81.97
4	Advanced knowledge and skills appropriate to the programme.	98.16
5	Advanced oral and written communication skills to interact effectively	81.58
6	Can you able to manage projects by applying gained knowledge.	82.63
7	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life -long learning	81.97
8	Career Guidance and Campus Placement	82.37
9	Course objectives are clear in most courses	81.05
10	Develop analytical skills	81.58
11	Faculties are available when I need them	82.63
12	Faculties are good at explaining things	81.05
13	How helpful and accurate the career counseling is in your programme?	82.11




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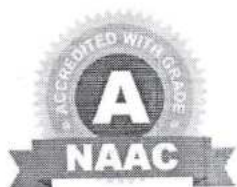
Firefox

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14	I can able to design and conduct experiments for define the problems and provide solutions.	81.84
15	I can able to design novel projects regarding advance technologies in Pharmacy.	80.13
16	I can able to select modern sophisticated instruments with an understanding of their limitations	82.24
17	Internship Support	78.68
18	Knowledge of new and various methods, technologies and modern tool usage	80.26
19	Library access to reading materials	82.24
20	The ability to reach out and support the society through the training and activities offered	81.18
21	The ability to work as individual as well as collaborate with others and take lead to attain a common goal	77.89
22	The capacity to uphold the ethics and values of the profession through knowledge and training	79.61
23	The capacity to uphold the professional identity through relevant knowledge of the global perspectives	76.18
24	The planning ability to face the challenges that you encounter in the profession	86.97
25	The relevant knowledge on the environment and sustainability	81.58




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PROGRAM WISE FEEDBACK REPORT

M.PHARM

Firefox

https://192.168.0.9/cms2/iipReportFeedback_program.aspx

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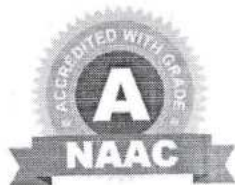
PROGRAM WISE FEED BACK REPORTS

College	IIP
Branch	M.Pharm
Session	2023-24
Generate	

SNo	Question	Feedback
1	Ability to access and analyze information from a various primary and technological resources to foster the life-long learning	87
2	Ability to be creative, analytical and critical thinking in various occasions	89
3	Ability to work in groups on projects & earn leadership skills through this program	84
4	Advanced knowledge and skills appropriate to the programme.	99
5	Advanced oral and written communication skills to interact effectively	85
6	Can you able to manage projects by applying gained knowledge.	80
7	Capable of self-education and clearly understand the value of updating their professional knowledge to engage in life -long learning	92
8	Career Guidance and Campus Placement	84
9	Course objectives are clear in most courses	86
10	Develop analytical skills	88
11	Faculties are available when I need them	83
12	Faculties are good at explaining things	85
13	How helpful and accurate the career counseling is in your programme?	86




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Firefox

https://192.168.0.9/cms2/fipReportFeedback_program.aspx

14	I can able to design and conduct experiments for define the problems and provide solutions.	78
15	I can able to design novel projects regarding advance technologies in Pharmacy.	90
16	I can able to select modern sophisticated instruments with an understanding of their limitations	81
17	Internship Support	82
18	Knowledge of new and various methods, technologies and modern tool usage	88
19	Library access to reading materials	83
20	The ability to reach out and support the society through the training and activities offered	86
21	The ability to work as individual as well as collaborate with others and take lead to attain a common goal	85
22	The capacity to uphold the ethics and values of the profession through knowledge and training	84
23	The capacity to uphold the professional identity through relevant knowledge of the global perspectives	80
24	The planning ability to face the challenges that you encounter in the profession	97
25	The relevant knowledge on the environment and sustainability	84




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