



NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA Ananthapuramu)
Recognized u/s 2(f) & 12(B) of the UGC Act, 1956, New Delhi.
ISO 9001:2015 Certified Institution
Chinthareddypalem, Nellore-524003, A.P. India.
Phone & Fax No :0861-2317966; Cell No :+91- 9392901053
Email: principal.npc@narayanagroup.com Visit us:www.narayanapharmacycollege.com

S.NO	COURSE CODE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
1	BP101T	3.00		3.00		2.00	2.67			2.00		2.00
2	BP102T	2.83	1.00	1.00		1.83	1.83				1.00	1.00
3	BP103T	3.00	1.80		2.00	2.25	1.80		2.33			2.00
4	BP104T	2.50	2.00			3.00	2.17			2.00	2.50	
5	BP105T	1.00			2.33					3.00		
6	BP106RMT	2.67	1.80	1.00		2.00	1.80			1.50	1.50	1.50
7	BP106RBT	2.00										
8	BP107P	2.33	1.67	1.50		1.33	1.67					
9	BP108P	3.00				2.00	2.00					
10	BP109P	3.00	3.00	2.00			1.67		1.67			
11	BP110P	2.33	1.00				1.67				2.00	1.00
12	BP111P	1.00			2.50					3.00	3.00	
13	BP112RBP	2.00										
14	BP201T	2.67	1.50	1.60			1.33					
15	BP202T		2.50	2.17		1.50	1.00					2.00
16	BP203T	2.50	2.00			1.00	2.00					
17	BP204T	3.00				2.00	1.33					
18	BP205T	2.00	2.00	1.00		2.00	2.00			2.00	3.00	3.00
19	BP206T		2.33	2.00	1.33		2.00	2.83				2.17
20	BP207P	2.33	1.67	2.00		1.33	1.67					
21	BP208P	2.00	1.67			1.67	1.00					1.67
22	BP209P	2.00				1.00	2.00					
23	BP210P	2.33	2.33	2.33		2.00	2.00			2.00	2.33	2.33
24	BP301T	3.00	2.00			2.00					3.00	2.00
25	BP302T	3.00	2.00	2.00								
26	BP303T	2.00	2.00	2.00		2.00	2.00	2.67		1.00	1.83	2.00
27	BP304T	3.00	2.00	2.00				2.00	2.00		2.00	1.83
28	BP305P	2.00	2.00	1.00		2.00	2.00					2.00
29	BP306P	3.00	3.00									
30	BP307P	2.00	1.00	2.00				2.00	1.00		1.33	2.00
31	BP308P	3.00	3.00									
32	BP401T	2.33	2.33	1.60	1.00	1.25	1.00	1.00			1.00	1.33
33	BP402T	3.00				3.00	3.00			1.00	2.67	1.80
34	BP403T	3.00	2.00	2.00								
35	BP404T	3.00	2.25	1.50		2.25	1.83	1.00	1.00	1.33	1.83	2.00
36	BP405T	3.00	2.80	2.00		1.80					1.75	
37	BP406P	3.00	2.00	2.00		1.67	2.00			1.00	3.00	3.00
38	BP407P	3.00	2.00									
39	BP408P	2.67	2.00	2.00		2.33	2.33		1.33	1.33	2.00	2.67
40	BP409P	3.00	2.00									
41	BP501T	3.00	2.67	2.67		2.67	2.00				3.00	
42	BP502T	3.00	0.00			2.00	2.00				2.17	
43	BP503T	3.00	2.00	2.00		3.00	3.00			1.00		
44	BP504T	3.00	2.83	2.67	2.33	2.67	2.67	2.67	1.33	1.80	2.80	3.00
45	BP505T	2.00	1.67	1.67	2.00	1.67	2.17	1.00	2.17	1.50	1.50	2.33

PRINCIPAL

NARAYANA PHARMACY COLLEGE

NELLORE - 524 002.



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46	BP506P	2.67	2.33				2.00		2.33		2.00	
47	BP507P	3.00	2.67	2.67		2.00	2.67	3.00				
48	BP508P	3.00	3.00	3.00		3.00	3.00	2.50			3.00	3.00
49	BP601T	3.00	2.67	2.67		2.67	2.67				3.00	3.00
50	BP602T	3.00	2.00			3.00	3.00		2.00	1.40		1.75
51	BP603T	3.00	2.17	1.00		2.50	3.00	2.00	2.67	2.33	3.00	3.00
52	BP604T	3.00	2.50				2.33					2.00
53	BP605T	3.00	2.00				2.00	2.00				
54	BP606T	2.67	2.00	1.50	2.00		2.17					1.33
55	BP607P	3.00	3.00	3.00		2.50	2.50				2.00	2.00
56	BP608P	3.00	2.67	2.67		2.00	3.00	3.00		1.00	3.00	
57	BP609P	3.00	2.00	3.00	2.00	3.00	3.00	2.33	1.00	1.00	3.00	3.00
58	BP701T	2.50					2.00				3.00	
59	BP702T	3.00	3.00	2.00	1.33	2.67	1.67		1.00	1.67	1.00	2.50
60	BP703T	2.67	2.67	2.83	3.00	2.00	2.33	2.00	3.00	2.25	2.00	1.50
61	BP704T	3.00	3.00	2.80		2.00	2.00				3.00	1.20
62	BP705P	3.00					2.00				3.00	
63	BP706PS	2.33	3.00	3.00						2.00	2.33	2.33
64	BP801T	3.00	2.20	2.50			1.50			2.00	2.00	2.00
65	BP802T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
66	BP805ET	3.00	2.00	2.00	2.00	2.80	3.00	1.50	3.00	3.00	2.00	3.00
67	BP809ET	2.50	2.25	3.00				3.00			3.00	
68	BP813PW	3.00	3.00	3.00	2.00					2.33	3.00	2.33


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1	BP101T	Human Anatomy Physiology I	3.00	-	3.00	-	2.00	2.67	-	-	2.00	2.00	2.00
2	BP102T	Pharmaceutical Analysis I	2.13	-	-	-	1.38	1.38	-	-	-	0.75	0.75
3	BP103T	Pharmaceutics I	2.25	1.35	-	1.50	1.69	1.35	-	1.75	-	-	1.50
4	BP104T	Pharmaceutical Inorganic Chemistry	2.50	2.00	-	-	3.00	2.17	-	-	2.00	2.50	-
5	BP105T	Communication Skills	1.00	-	-	2.33	-	-	-	-	3.00	-	-
6	BP106RMT	Remedial Mathematics	2.67	1.80	1.00	-	2.00	1.80	-	-	1.50	1.50	1.50
7	BP106RBT	Remedial Biology	1.83	-	-	-	-	-	-	-	-	-	-
8	BP107P	Human Anatomy and Physiology I Lab	2.33	1.67	1.50	-	1.33	1.67	-	-	-	-	-
9	BP108P	Pharmaceutical Analysis I -Lab	3.00	-	-	-	2.00	2.00	-	-	-	-	-
10	BP109P	Pharmaceutics I-Lab	3.00	3.00	2.00	-	-	1.67	-	1.67	-	-	-
11	BP110P	Pharmaceutical Inorganic Chemistry-Lab	2.33	1.00	-	-	-	1.67	-	-	-	2.00	1.00
12	BP111P	Communication Skills -Lab	1.00	-	-	2.50	-	-	-	-	3.00	3.00	-
13	BP112RBP	Remedial Biology-Lab	2.00	-	-	-	-	-	-	-	-	-	-
14	BP201T	Human Anatomy Physiology II	2.00	1.13	1.20	-	-	1.00	-	-	-	-	-
15	BP202T	Pharmaceutical Organic Chemistry I	2.50	2.17	1.75	-	1.50	1.00	-	-	-	-	2.00
16	BP203T	Biochemistry	1.25	1.00	-	-	0.50	1.00	-	-	-	-	-
17	BP204T	Pathophysiology	2.25	-	-	-	1.50	1.00	-	-	-	-	-
18	BP205T	Computer Applications in Pharmacy	2.00	2.00	1.00	-	2.00	2.00	-	-	2.00	3.00	3.00
19	BP206T	Environmental Sciences	-	2.33	2.00	1.33	-	2.00	2.83	-	-	-	2.17
20	BP207P	Human Anatomy Physiology II-Lab	2.33	1.67	2.00	-	1.33	1.67	-	-	-	-	-
21	BP208P	Pharmaceutical Organic Chemistry I -	2.00	1.67	-	-	1.67	1.00	-	-	-	-	1.67
22	BP209P	Biochemistry -Lab	2.00	-	-	-	1.00	2.00	-	-	-	-	-
23	BP210P	Computer Applications in Pharmacy -	2.33	2.33	2.33	-	2.00	2.00	-	-	2.00	2.33	2.33
24	BP301T	Pharmaceutical Organic Chemistry II	2.00	1.00	-	-	2.00	-	-	-	-	3.00	2.00
25	BP302T	Physical Pharmaceutics I	3.00	2.00	2.00	-	-	-	-	-	-	-	-
26	BP303T	Pharmaceutical Microbiology	2.00	2.00	2.00	-	2.00	2.00	2.67	-	1.00	1.83	2.00
27	BP304T	Pharmaceutical Engineering	3.00	2.00	2.00	-	-	-	2.00	2.00	-	2.00	1.83
28	BP305P	Pharmaceutical Organic Chemistry II	2.00	2.00	1.00	-	2.00	2.00	-	-	-	-	2.00

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29	BP306P	Physical Pharmaceutics I - Lab	3.00	3.00	-	-	-	-	-	-	-	-	-
30	BP307P	Pharmaceutical Microbiology -Lab	2.00	1.00	2.00	-	-	-	2.00	1.00	-	1.33	2.00
31	BP308P	Pharmaceutical Engineering -Lab	3.00	3.00	-	-	-	-	-	-	-	-	-
32	BP401T	Pharmaceutical Organic Chemistry III	2.33	2.33	1.60	1.00	1.25	1.00	1.00	-	-	1.00	1.33
33	BP402T	Medicinal Chemistry I	1.50	-	-	-	1.50	1.50	-	-	-	1.33	0.90
34	BP403T	Physical Pharmaceutics II	3.00	2.00	2.00	-	-	-	-	-	-	-	-
35	BP404T	Pharmacology I	2.25	1.69	1.13	-	1.69	1.38	-	-	1.00	1.38	1.50
36	BP405T	Pharmacognosy and Phytochemistry I	3.00	2.80	2.00	-	1.80	-	-	-	-	1.75	-
37	BP406P	Medicinal Chemistry I - Lab	3.00	2.00	2.00	-	1.67	2.00	-	-	1.00	3.00	3.00
38	BP407P	Physical Pharmaceutics II - Lab	3.00	2.00	2.00	-	1.67	2.00	-	-	1.00	3.00	3.00
39	BP408P	Pharmacology I - Lab	2.67	2.00	2.00	-	2.33	2.33	-	1.33	1.33	2.00	2.67
40	BP409P	Pharmacognosy and Phytochemistry I	3.00	2.00	-	-	-	-	-	-	-	-	-
41	BP501T	Medicinal Chemistry II	3.00	2.67	2.67	-	2.67	2.67	-	-	-	-	-
42	BP502T	Industrial Pharmacy I	1.50	1.00	-	-	1.00	1.00	-	-	-	1.08	-
43	BP503T	Pharmacology II	3.00	2.00	2.00	-	3.00	3.00	-	-	1.00	-	-
44	BP504T	Pharmacognosy and Phaytochemistry	3.00	2.83	2.67	2.33	2.67	2.67	2.67	1.33	1.80	2.80	3.00
45	BP505T	Pharmaceutical Jurisprudence	1.00	0.83	0.83	1.00	0.83	1.08	0.50	1.08	0.75	0.75	1.17
46	BP506P	Industrial Pharmacy I - Lab	2.67	2.33	-	-	-	2.00	-	2.33	-	2.00	-
47	BP507P	Pharmacology II - Lab	3.00	2.67	2.67	-	2.00	2.67	3.00	-	-	-	-
48	BP508P	Pharmacognosy and Phytochemistry I	3.00	3.00	3.00	-	3.00	3.00	2.50	-	-	3.00	3.00
49	BP601T	Medicinal Chemistry III	3.00	2.67	2.67	-	2.67	2.67	-	-	-	3.00	3.00
50	BP602T	Pharmacology III	3.00	2.00	-	-	3.00	3.00	-	2.00	1.40	-	1.75
51	BP603T	Herbal Drug Technology	3.00	2.17	1.00	-	2.50	3.00	2.00	2.67	2.33	3.00	3.00
52	BP604T	Biopharmaceutics and Pharmacokine	2.50	2.08	-	-	-	1.94	-	-	-	-	1.67
53	BP605T	Pharmaceutical Biotechnology	3.00	2.00	-	-	-	2.00	2.00	-	-	-	-
54	BP606T	Quality Assurance	2.67	2.00	1.50	2.00	-	2.17	-	-	-	-	1.33
55	BP607P	Medicinal Chemistry III -Lab	3.00	3.00	3.00	-	2.50	2.50	-	-	-	2.00	2.00

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56	BP608P	Pharmacology III- Lab	3.00	2.67	2.67	-	2.00	3.00	3.00	-	1.00	3.00	-
57	BP609P	Herbal Drug Technology -Lab	3.00	2.00	3.00	2.00	3.00	3.00	2.33	1.00	1.00	3.00	3.00
58	BP701T	Instrumental Methods of Analysis	2.50	-	-	-	-	2.00	-	-	-	3.00	-
59	BP702T	Industrial Pharmacy II	3.00	3.00	2.00	1.33	2.67	1.67	-	1.00	1.67	1.00	2.50
60	BP703T	Pharmacy Practice	2.67	2.67	2.83	3.00	2.00	2.33	2.00	3.00	2.25	2.00	1.50
61	BP704T	Novel Drug Delivery System	3.00	3.00	2.80	-	2.00	2.00	-	-	-	3.00	1.20
62	BP705P	Industrial Methods Of Analysis -Lab	3.00	-	-	-	-	2.00	-	-	-	3.00	-
63	BP706PS	Practice School	2.33	3.00	3.00	-	-	-	-	-	2.00	2.33	2.33
64	BP801T	Biostatistics and Research Methodolo	3.00	2.20	2.50	-	-	1.50	-	-	2.00	2.00	2.00
65	BP802T	Social and Preventive Pharmacy	3.00	3.00	3.00	2.33	3.00	3.00	2.83	2.83	3.00	-	3.00
66	BP805ET	Pharmacovigilance	3.00	2.00	2.00	2.00	2.80	3.00	1.50	3.00	3.00	2.00	3.00
67	BP809ET	Cosmetic Science	2.50	2.25	3.00	-	-	-	3.00	-	-	3.00	-
68	BP813PW	Project Work	3.00	3.00	3.00	2.00	-	-	-	-	2.33	3.00	2.33
AVERAGE			2.52	2.14	2.12	1.90	2.00	2.00	2.23	1.87	1.78	2.22	2.08

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PHARMACY CO-PO Matrix

S.No.	SUBJECT NAME	SUBJECT CODE	CO - NUMBER	COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11		
1	Human Anatomy Physiology I	BP101T	C101.1	This subject describes the fundamental knowledge on the structure and functions of the various systems of the human body.	3					3					2		
			C101.2	It also helps in defining & understanding both homeostatic mechanisms & their imbalances	3		3				3			2			
			C101.3	The subject explains the basic knowledge that is required to understand the various disciplines of pharmacy	3					2	3				2		2
			C101.4	It enlists about the gross morphology, structure and functions of cell, skeletal, muscular, cardiovascular system of the human body.	3							3					
			C101.5	Students would be able to describe about identify the different types of bones in human body.	3								2				
			C101.6	Students would be able to identify the various tissues of different systems of human body.	3								2				
					3		3		2	2.6667			2		2		
2	Pharmaceutical Analysis I	BP102T	C102.1	Describe the fundamental ideas behind both qualitative and quantitative analysis.	2				1	1							
			C102.2	Explain the fundamentals and uses of aqueous and non-aqueous titrimetric drug purity evaluation techniques.	3					2	2						
			C102.3	Explain the fundamentals and uses of volumetric and electrochemical analytical techniques for determining a drug's purity.	3						2	2				1	1
			C102.4	Describe the fundamentals and uses of redox titrations as they relate to the quantitative evaluation of medications.	3						2	2					
			C102.5	Explain the fundamentals and uses of complexometric and precipitation titrations to assess the purity of medications	3						2	2					
			C102.6	Demonstrate analytical abilities	3	1	1				2	2					1
					2.83	1.00	1.00		1.83	1.83				1.00	1.00		
3	Pharmaceutics I	BP103T	C103.1	Describe the history of profession of pharmacy	3	1			2	2			2				
			C103.2	Explain the basics of different dosage forms	3	2					1						
			C103.3	Discuss the basics on incompatibilities	3						3	2					
			C103.4	Explain in brief professional way of handling prescription	3	3			2	3	2			3			2
			C103.5	Explain about pharmaceutical calculations	3	2						2		2			
			C103.6	What do you understand about various conventional dosage forms	3	1					1						
					3.00	1.80		2.00	2.25	1.80			2.33		2.00		

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4	Pharmaceutical Inorganic Chemistry	BP104T	C104.1	including atomic structure, periodic table trends, and chemical bonding.	3				3	2			2				
			C104.2	including their therapeutic applications and toxicological aspects.	3					3				3			
			C104.3	pharmaceuticals, and predict the products of these reactions	3	2						2				2	
			C104.4	in pharmaceuticals, such as metal salts and complexes.	2							2					
			C104.5	Discuss about Dental products and other related dental hygiene products	2					3	2						
			C104.6	electrolytes, and radiopharmaceuticals.	2							2					
					2.50	2.00			3.00	2.17			2.00	2.50			
5	Communication Skills	BP105T	C105.1	To prepare the young pharmacy student to interact effectively with doctors, nurses,	1								3				
			C105.2	To develop the soft skills set to work cohesively with the team as a team player and				2						3			
			C105.3	To understand the behavioral needs for a pharmacist to function effectively in the	1										3		
			C105.4	To communicate effectively (Verbal and Non-Verbal).											3		
			C105.5	To effectively manage the team as a team player.				3									
			C105.6	To develop interview skills.				2							3		
					1			2.333					3				
6	Remedial Mathematics	BP106RMT	C106.1	To know the theory and their application in Pharmacy	3	1	1			2							
			C106.2	To solve the different types of problems by applying theory	3												
			C106.3	To appreciate the important application of mathematics in Pharmacy	3	2				2	2					1	
			C106.4	Apply mathematical concepts and principles to perform computations for Pha	3	2				2	2					1	
			C106.5	Create, use and analyze mathematical representations and mathematical relat	2	2				2	1				1	2	1
			C106.6	Communicate mathematical knowledge and understanding to help in the field	2	2				2	2				2	2	2
					2.667	1.8	1		2	1.8			1.5	1.5	1.5		
7	Remedial Biology	BP106RBT	C106.1	Understand the basic components, both anatomy and physiology of plants.	2												
			C106.2	Identify and understand the Physiology and reproduction in plants.	2												
			C106.3	Understand the taxonomy in plants.	2												
			C106.4	Identify and understand the various tissue systems and cell organization in animals.	2												
			C106.5	Describe the detail study of frog.	2												
			C106.6	Classify and study about different animal classes especially reptiles, aves, pisces and	2												

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					2											
8	Human Anatomy and Physiology I Lab	BP107P	C107.1	indifferent systems of human body.	2	1			1	1						
			C107.2	pressure determination, blood cell counting.	3	2	1		1	2						
			C107.3	Evaluate various experiments related to special senses and nervous system.	2	2	2		2	2						
					2.333	1.67	1.5		1.33	1.6667						
9	Pharmaceutical Analysis I -Lab	BP108P	C108.1	Able to apply volumetric and electrochemical analytical techniques for analysis of chemical compounds.	3				2	2						
			C108.2	Able to identify and locate the impurities through a different technique.	3				2	2						
			C108.3	analysis	3				2	2						
					3.00				2.00	2.00						
10	Pharmaceutics I-Lab	BP109P	C109.1	Explain the calculations on formulating dose as per pediatric and patient requirements	3	3				2		2				
			C109.2	Discuss the formulating skills of making powdered dosage forms	3	3	2			2		2				
			C109.3	Explain formulation of suppositories	3	3	2			1		1				
					3.00	3.00	2.00			1.67		1.67				
11	Pharmaceutical Inorganic Chemistry-Lab	BP110P	C110.1	Determine the level of specific impurities in the given inorganic compounds by	3					1					1	
			C110.2	Apply different chemical methods to prepare inorganic pharmaceuticals.	2	1				2				2		
			C110.3	Perform identification tests as per Indian Pharmacopoeia.	2					2						
					2.33	1.00				1.67			2.00	1.00		
12	Communication Skills -Lab	BP111P	C111.1	Understand the different aspects of the English language proficiency with emphasis on LSRW skills.	1			2						3		
			C111.2	Apply communication skills through various language learning activities.				3						3		
			C111.3	Analyze the English speech sounds, stress, rhythm, intonation and syllable division for better listening and speaking comprehension.										3	3	
					1.00			2.50					3.00	3.00		
			C112.1	Identify various systems of frog using computer model.	2											

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13	Remedial Biology Lab	BP112RBP	C112.2	Calculate the blood pressure and tidal volumes.	2												
			C112.3	Differentiate the various blood groups.	2												
					2.00												
14	Human Anatomy Physiology II	BP201T	C201.1	To describe about the gross morphology, structure, and functions of the human	3		2			2							
			C201.2	They would have thoroughly examined metabolism and energy.	3	2				1							
			C201.3	Students would be able to name the numerous organs that make up the various	3		1				1						
			C201.4	They would have conducted and studied experiments such as body temperature	3	2	2					1					
			C201.5	They would have researched and elaborated on the interconnected mechanisms that	2	1	1					2					
			C201.6	They would have studied and carried out tests related to smell, taste, and vision.	2	1	2					1					
					2.667	1.5	1.6			1.3333							
15	Pharmaceutical Organic Chemistry I	BP202T	C202.1	Explain the basic Principles of Organic Chemistry.	2	2					1				2		
			C202.2	List the IUPAC nomenclature rules for naming organic compounds and to draw	2	3	1		3								
			C202.3	Discuss the preparation methods of Alkanes, Alkenes and Conjugated dienes, List the	2	2											
			C202.4	Explain the preparation methods, reactions, qualitative tests and uses of Alkyl halide	3	2	2				1						
			C202.5	Explain the preparation methods, reactions, qualitative tests and uses of Carbonyl	3	2	2				1						
			C202.6	Explain the preparation methods, reactions, qualitative tests for carboxylic acid and amines	3	2	2				1						
						2.50	2.17		1.50	1.00					2.00		
16	Biochemistry	BP203T	C203.1	of biomolecules such as proteins, lipids, carbohydrates, and nucleic acids	2				1	2							
			C203.2	understand enzyme kinetics, regulation, and the role of enzymes in pharmaceutical	3						2						
			C203.3	oxidative phosphorylation, and their relevance to drug metabolism and energy	3					1	2						
			C203.4	Discuss about Nucleic acid metabolism and catabolism, their related disorders.	2						2						
			C203.5	transcription, and translation, and their implications for drug development and gene	2	2											
			C203.6	Discuss about enzyme action, classification and their inhibitors.	3							2					
					2.5	2			1	2							
17	Pathophysiology	BP204T	C204.1	Study the various etiological factors for the development of diseases.	3				2	2							
			C204.2	Understand the concepts of pathophysiological basis of selected diseases.	3					2	2						
			C204.3	Learn the basics of signs and symptoms of diseases.	3					2	1						

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17	Pathophysiology	BP204T	C204.4	Study of common complications of the diseases.	3				2	1							
			C204.5	Evaluate the basic Path physiological mechanisms in various diseases	3				2	1							
			C204.6	Study the various etiological factors for the development of diseases.	3				2	1							
							3.00				2.00	1.33					
18	Computer Applications in Pharmacy	BP205T	C205.1	Describe the ideas behind information systems and number systems.	2	2	1		2	2			2	3	3		
			C205.2	Describe the databases (MS Access, MySQL) and web technologies (HTML, XML).	2	2	1		2	2			2	3	3		
			C205.3	List the various ways that computers are used in community and dispensing	2	2	1		2	2			2	3	3		
			C205.4	Describe the ideas behind bioinformatics and cheminformatics.	2	2	1		2	2			2	3	3		
			C205.5	Describe the function of data analysis in preclinical research and be aware of the	2	2	1		2	2			2	3	3		
			C205.6	Understand the many kinds of databases and the range of uses for them in the	2	2	1		2	2			2	3	3		
				2	2	1		2	2			2	3	3			
19	Environmental Sciences	BP206T	C206.1	Discuss awareness about environmental problems		3	2	1			3				2		
			C206.2	Explain about environment and its allied problems		2		1			3					2	
			C206.3	Describe to develop an attitude of concern for the environment		2	2	2		2	3					2	
			C206.4	Explain to motivate learners to participate in environment protection and						2	3					3	
			C206.5	Explain in acquiring skills in individuals in identifying and solving environmental							3					2	
			C206.6	Discuss the strive to attain harmony with nature							2	2					2
					2.33	2	1.333		2	2.83				2.1666667			
20	Human Anatomy Physiology II-Lab	BP207P	C207.1	Identify the various organs of different systems of human body.	2	1			1	1							
			C207.2	Practice the experiments like neurological reflex, body temperature measurement	3	2	2		1	2							
			C207.3	Study of basic physiological parameters like blood pressure, heart rate, pulse and	2	2	2		2	2							
					2.33	1.67	2.00		1.33	1.67							
21	Pharmaceutical Organic Chemistry I-Lab	BP208P	C208.1	Describe safety precautions in an organic chemistry lab and different laboratory	1	1			1	1					1		
			C208.2	Hands on experience in assessment of the procedures used to identify unidentified	2	2			2	1					2		
			C208.3	Trained to produce appropriate solid derivatives from organic molecules.	3	2			2	1					2		
					2	1.67			1.67	1				1.6666667			

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22	Biochemistry -Lab	BP209P	C209.1	Analyse the quality of carbohydrates and protiens	2				1	2						
			C209.2	Demonstrate blood sugar and blood creatinine test	2				1	2						
			C209.3	Determine the action of enzyme activity on saliva	2				1	2						
					2.00				1.00	2.00						
II-I																
23	Computer Applications in Pharmacy -Lab	BP210P	C210.1	Access and MS Power point.	1	3	3		2	2			2	3	3	
			C210.2		3	2	2		2	2			2	2	2	
			C210.3	information about a particular disease.	3	2	2		2	2			2	2	2	
					2.33	2.33	2.33		2.00	2.00			2.00	2.33	2.33	
24	Pharmaceutical Organic Chemistry II	BP301T	C301.1	fundamental concepts learnt.	2	1			2					3	2	
			C301.2	fundamental properties of the reactants involved.	2	1			2					3	2	
			C301.3	Substitution, Electrophilic Addition and Electrophilic Aromatic Substitution.	2	1			2					3	2	
			C301.4	reactions.	2	1			2					3	2	
			C301.5	Explain the difference between a saturated and an unsaturated hydrocarbon.	2	1			2					3	2	
			C301.6	Discuss the significance of chirality in biomolecules	2	1			2					3	2	
					3.00	2.00			2.00				3.00	2.00		
25	Physical Pharmaceutics I	BP302T	C302.1	Analyze and apply various physicochemical properties of drug molecules in the	3	2										
			C302.2	Interpret how these properties influence the selection of excipients and formulation	3	2	2									
			C302.3	Apply principles of chemical kinetics in stability testing and determination of the	3	2										
			C302.4	Demonstrate proficiency in conducting stability studies and interpreting kinetic data	3	2	2									
			C302.5	Utilize physicochemical properties to optimize formulation development processes.	3	2										
			C302.6	Evaluate and compare different formulation approaches based on physicochemical	3	2	2									
					3.00	2.00	2.00									
26	Pharmaceutical Microbiology	BP303T	C303.1	This course states identification techniques of microbes present in air, soil, water.	2	2			2	2	3		1	2	2	
			C303.2	Study of cultivation of industrially demanded bacteria & viruses which are having	2	2	2				2			3	2	
			C303.3	Explains Sterility testing of pharmaceutical preparations intended for intravenous	2								3		2	2
			C303.4	Describes applications of cell culturing technology in advancement of pharmaceutical	2	2	2						3		1	2

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			C303.5	Demonstrate Disinfectants and their mode of action as Bactericidal or Bacteriostatic.	2						2			1	2	
			C303.6	Understanding microbiological assay to determine potency of medical products.	2						3			2	2	
					2	2	2		2	2	2.67		1	1.83	2	
27	Pharmaceutical Engineering	BP304T	C304.1	Understand basic concept of fluid flow in pharmaceutical industries.	3	2	2				2	2			1	
			C304.2	Perform various operational processes involved in size reduction and size separation in pharmaceutical industries.	3	2	2				2	2		2	2	
			C304.3	Comprehend various unit operation which involves heat transfer such as evaporation,	3	2	2				2	2		2	2	
			C304.4	Understand mixing process used in pharmaceutical industries.	3	2	2				2	2		2	2	
			C304.5	Interpret various unit operations used in separation process such as filtration and	3	2	2				2	2		2	2	
			C304.6	Appreciate and comprehend significance of material selection and corrosion control	3	2	2				2	2		2	2	
					3	2	2				2	2		2	1.8333333	
28	Pharmaceutical Organic Chemistry II - Lab	BP305P	C305.1	Students should be able to evaluate the quality of fats and oils by determining acid value, saponification value, and iodine value as per pharmacopeia.	2	2	1		2	2					2	
			C305.2	Students should be able to synthesize the various organic compounds and understands the reaction mechanism involved in the synthesis.	2	2	1		2	2					2	
			C305.3	Calculate the percentage yields of the products obtained by synthesis.	2	2	1		2	2					2	
					2.00	2.00	1.00		2.00	2.00					2.00	
29	Physical Pharmaceutics I - Lab	BP306P	C306.1	these techniques to understand drug distribution and behavior in different media.	3	3										
			C306.2	surfactants, and calculate the hydrophilic-lipophilic balance (HLB) number to evaluate	3	3										
			C306.3	solubility and pH titration methods, and apply adsorption isotherms to understand	3	3										
					3.00	3.00										
30	Pharmaceutical Microbiology -Lab	BP307P	C307.1	Student can able to identify and differentiate various microbes by Gram staining & acid staining.	2	1	2				2	1		1		
			C307.2	Hands on experience in preparing nutrient media for cultivation of useful microbes.	2	1	2				2	1		2	2	
			C307.3	apparatus.	2	1	2				2			1		
					2.00	1.00	2.00				2.00	1.00		1.33	2.00	
31	Pharmaceutical Engineering -Lab	BP308P	C308.1	Design various experiments related to unit operations.	3	3										
			C308.2	Instruct to operate equipment's used in the manufacture of pharmaceutical products.	3	3										

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			C308.3	Demonstrate the material and energy requirements for optimizing the pharmaceutical	3	3												
					3.00	3.00												
32	Pharmaceutical Organic Chemistry III	BP401T	C401.1	Discuss the reactions of chiral molecules, racemic mixture modification and	3	3	2	1	2		1			1	1			
			C401.2	Explain the mechanism of stereochemical reactions.	2	3	1			1								
			C401.3	Understand and List the IUPAC rules to heterocyclic compounds.	2	2			1	1								
			C401.4	Discuss the medicinal uses ,synthesis ,chemistry of heterocyclic compounds and their	3	3	1		1	1							2	
			C401.5	List the synthetic name reactions in synthesis.	2	1	2											
			C401.6	Discuss about the conformational analysis.	2	2	2		1							1	1	
					2.333	2.33	1.6	1	1.25	1	1			1	1.3333333			
33	Medicinal Chemistry I	BP402T	C402.1	Helps in correlating between pharmacology of a disease and its mitigation or cure.	3				3	3					1			
			C402.2	To understand the drug metabolic pathways, adverse effect and therapeutic value of	3				3	3				2	1			
			C402.3	To know the structural activity relationship of different class of drugs.	3				3	3			1	3	3			
			C402.4	Well acquainted with the synthesis of some important class of drugs.	3				3	3					3	3		
			C402.5	Knowledge about the mechanism pathways of different class of medicinal	3				3	3								
			C402.6	To understand the chemistry of drugs with respect to their pharmacological activity.	3				3	3							1	
					3				3	3			1	2.67	1.8			
34	Physical Pharmaceutics II	BP403T	C403.1	To understand various physicochemical properties of drug molecules in designing of	3	2												
			C403.2	To apply the principles of chemical kinetics	3	2												
			C403.3	To apply the kinetic principles for stability testing and determination of expiry period	3	2												
			C403.4	To understand the use of physicochemical properties in the formulation	3	2												
			C403.5	To evaluate the dosage forms	3	2												
			C403.6	To create or design the dosage forms	3	2	2											
					3	2	2											
			C404.1	Describe the pharmacological actions of different classes of drugs.	3	2			3	3		1	2	2	2			
			C404.2	Recognize molecular mechanisms of drug action in the human body.	3	3	2		3	2			1	2	2			
			C404.3	Read the Basic pharmacological knowledge of drugs in the prevention and treatment	3	2	1		2	2	1		2	1	2			

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35	Pharmacology I	BP404T	C404.4	Understand the signal transduction, mechanism of various receptors.	3				1	1			1	2	2		
			C404.5	Define the concepts of different types of drug receptors and their signaling	3					1			1	2	2		
			C404.6	Enumerate the basic knowledge of drug addiction, abuse, drug interactions, and Pharmacovigilance.	3	2					2				1	2	2
					3	2.25	1.5				2.25	1.8333	1	1	1.33	1.83	2
36	Pharmacognosy and Phytochemistry I	BP405T	C405.1	Describe and define in detail about the history, present status, future, scope,	3		1		2								
			C405.2	Explain the methods of cultivation, collection, processing, storage and crude drugs	3	2	2		2								
			C405.3	Apply the suitable methods to detect different types of adulteration.	3	3	1		1						2		
			C405.4	Compare and contrast different types of plant tissue culture, primary metabolites.	3	3	3		2						1		
			C405.5	Describe the principles of Indian Systems of Medicine and knowledge of secondary	3	3	2								1		
			C405.6	Assess the quality control of crude drugs by various methods of evaluation.	3	3	3		2						3		
					3	2.8	2		1.8					1.75			
37	Medicinal Chemistry I - Lab	BP406P	C406.1	Medicinal Chemistry Laboratory.	3				1								
			C406.2	drawing the chemical structure of drugs.	3	2	2		2	2			1	3	3		
			C406.3	Characterize the synthetic compounds using melting point and Boiling point.	3				2	2							
					3.00	2.00	2.00				1.67	2.00			1.00	3.00	3.00
38	Physical Pharmaceutics II - Lab	BP407P	C407.1	Evaluate particle size and particle size distribution using sieving and microscopic	3	2											
			C407.2	Evaluate the angle of repose and assess the impact of lubricants on flow properties, and determine the viscosity of liquids using Ostwald's viscometer and semisolids using	3	2											
			C407.3	Evaluate sedimentation volume with varying suspending agents and concentrations,	3	2											
					3.00	2.00											
39	Pharmacology I - Lab	BP408P	C408.1	Summarize basic Concept of Pharmacology.	2				2	2			1	1	2	2	
			C408.2	Demonstrate the effect of drugs on animals by using simulated experiments.	3	2	2		2	2		2	2	2	3		
			C408.3	Adapt knowledge about recent development in pharmacology.	3	2	2		3	3			1	1	2	3	
					2.67	2.00	2.00		2.33	2.33			1.33	1.33	2.00	2.67	
40	Pharmacognosy and Phytochemistry I	BP409P	C409.1	Understand the chemical nature of crude drug by chemical tests	3	2											
			C409.2	Perform stomatal number, stomatal index, vein islet number, vein islet termination and	3	2											

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PHARMACY CO-PO Matrix

S.No.	SUBJECT NAME	SUBJECT CODE	CO - NUMBER	COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11		
	Lab		C409.3	Able to perform Ash value, Extractive values, moisture content, swelling and foaming in	3	2											
					3.00	2.00											
41	Medicinal Chemistry II	BP501T	C501.1	Helps in correlating between pharmacology of a disease and its mitigation or cure.	3	3	3		3	3							
			C501.2	To write the chemical synthesis of some drugs.	3	3	3		3	3							
			C501.3	To know the structural activity relationship of different class of drugs.	3				3	3							
			C501.4	Knowledge about the mechanism pathways of different class of medicinal	3				2	2							
			C501.5	To acquire knowledge about the chemotherapy for cancer.	3				2	2							
			C501.6	To understand the chemistry of drugs with respect to their pharmacological activity.	3	2	2		3	3							
					3.00	2.67	2.67		2.67	2.00				3.00			
42	Industrial Pharmacy I	BP502T	C502.1	After successful completion of the course student will be able to understand the	3	2			2	2					3		
			C502.2	Students will learn advanced drug delivery system early stage in solid and liquid	3											2	
			C502.3	Students will learn advanced drug delivery system early stage in solid(CAPSULES)	3											3	
			C502.4	They know very well about orally administered drugs, injectables, parenteral	3											2	
			C502.5	Students know very well about orally administered drugs, cosmetics,aerosol and	3											2	
			C502.6	Students know very well about basics of formulation development and industrial	3											1	
					3.00				2.00	2.00				2.17			
43	Pharmacology II	BP503T	C503.1	Able to understand the mechanism of drug action and its relevance in the treating	3				3	3				1			
			C503.2	Demonstrate isolation of different organs/tissues from the laboratory animals by	3	2	2		3	3				1			
			C503.3	Explain about Autacoids and their Pharmacology.	3				3	3					1		
			C503.4	Able to understand the mechanism of drug action and its relevance in the treating	3				3	3					1		
			C503.5	Describe about pharmacology of drugs acting on endocrine system	3				3	3					1		
			C503.6	Discuss about principles and applications of bioassays	3				3	3					1		
					3.00	2.00	2.00		3.00	3.00			1.00				
44	Pharmacognosy and	BP504T	C504.1	Elucidate the basic biogenetic pathways involved in the synthesis of primary and	3	3	2	1	3	3	3	2		3	3		
			C504.2	Should be able to systemic pharmacognostical study of secondary metabolites like	3	3	3	2	2	3	2	1	2	2	3		
			C504.3	3. Should be able to isolation and identification of different types of	3	3	2	2	2	3	3	1	2	3	3		



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	Phytochemistry II		C504.4	4. Describe the Industrial production, analysis and utilization of phytoconstituents.	3	3	3	3	3	2	2	1	1	3	3
			C504.5	Explain the modern extraction techniques and perform the identification of the	3	2	3	3	3	2	3	1	2	3	3
			C504.6	6. Describe the plant tissue culture, drug interactions and basic principles of	3	3	3	3	3	3	3	2	2		3
					3.00	2.83	2.67	2.33	2.67	2.67	2.67	1.33	1.80	2.80	3.00
45	Pharmaceutical Jurisprudence	BP505T	C505.1	Understand the meaning of the jurisprudence and legal theory	2	1	2	2	2	2		2	1	1	2
			C505.2	Explain the genesis of the law through various jurisprudential schools of law	2	2	2	2	2	2		2	1	1	3
			C505.3	Analyse various jurisprudential concepts, their interrelation and application of laws	2	2	2	2	3	3		3	1	1	3
			C505.4	society	2	2	1	2	1	2	1	2	2	2	2
			C505.5	Analyse the emergence of modern trends in jurisprudence	2	2	1	2	1	2	1	2	2	2	2
			C505.6	historical, philosophical, and economic context of law.	2	1	2	2	1	2	1	2	2	2	2
					2.00	1.67	1.67	2.00	1.67	2.17	1.00	2.17	1.50	1.50	2.33
46	Industrial Pharmacy I - Lab	BP506P	C506.1	To develop skill regarding formulation development of different dosage forms.	2	2				2		2		2	
			C506.2	Students know very well about basics of formulation development and industrial met	3	2				2		3		2	
			C506.3	To acquire knowledge about the administered drugs, cosmetics, aerosol and semisolid	3	3				2		2		2	
					2.67	2.33				2.00		2.33		2.00	
47	Pharmacology II - Lab	BP507P	C507.1	Understanding the mechanism of drug action and its relevance in the treatment of	3	2	2		2	2	3				
			C507.2	Explaining isolation of different organs /tissues from the laboratory animals by	3	3	3			3	3				
			C507.3	Demonstrating the various receptor actions using isolated tissue preparations	3	3	3			3	3				
					3.00	2.67	2.67		2.00	2.67	3.00				
48	Pharmacognosy and Phytochemistry II - Lab	BP508P	C508.1	Macroscopy and microscopy diagnostic characters of secondary metabolites	3	3	3		3	3	3				3
			C508.2	Isolation, Extraction, Identification and analysis of selected phytoconstituents	3	3	3		3	3				3	3
			C508.3	Detection of phytoconstituents by chromatographic techniques	3	3	3		3	3	2			3	3
					3.00	3.00	3		3	3	2.5			3	3
III-I															
			C601.1	To develop an understanding of the physico-chemical properties of drugs.	3	3	3		3	3				3	3
			C601.2	To interpret how current drugs were developed by using pharmacophore modeling	3	3	3		3	3				3	3

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49	Medicinal Chemistry III	BP601T	C601.3	To apply knowledge in the chemotherapy for cancer and microbial diseases and	3				3	3				3	3		
			C601.4	To acquire knowledge about the mechanism pathways of different class of medicinal	3				2	2							
			C601.5	To explain to a variety of drug classes and some pharmacological properties.	3				2	2							
			C601.6	To generate knowledge on thrust areas for further research.	3	2	2		3	3						3	3
					3.00	2.67	2.67		2.67	2.67				3.00	3.00		
50	Pharmacology III	BP602T	C602.1	1. Explain the Mechanism of action, Clinical uses, Adverse drug reactions and	3	1			3	3		3	1		2		
			C602.2	2. Discuss the principles of toxicology, clinical symptoms and management strategies	3	1			3	3		2	1			1	
			C602.3	3. List the different drugs (Chemotherapy) in the treatment of different infectious	3	2			3	3		2	1				1
			C602.4	4. Describe the basics of Toxicity studies.	3	2			3	3		2	1				
			C602.5	5. Explain the mechanism of resistance towards antibiotics and their interactions,	3	3			3	3		1	3				3
			C602.6	6. Describe the concept named chronopharmacology and its applications in the	3	3			3	3							
					3.00	2.00			3.00	3.00		2.00	1.40		1.75		
51	Herbal Drug Technology	BP603T	C603.1	Explain role of herbs as raw materials, biodynamic agriculture techniques, basic	3	3	1		1	3	2			3	3		
			C603.2	Discuss the the general aspects & role of nutraceuticals in treatment of various	3	2	1		3	3	2					3	
			C603.3	Explain the methods of preparation and application of various herbal cosmetics,	3	2	1		2	3	2						3
			C603.4	Explain the the regulatory guidelines for the evaluation of herbal drugs and patenting	3	2	1		3	3	2	3	3				3
			C603.5	Discuss the current scenario of herbal drug industry and Schedule T.	3	2	1		3	3	2	3	2				3
			C603.6	Explain the present scope and future prospects of herbal drug technology.	3	2	1		3	3	2	2	2				3
					3.00	2.17	1.00		2.50	3.00	2.00	2.67	2.33	3.00	3.00		
52	Biopharmaceutics and Pharmacokinetics	BP604T	C604.1	Understand different mechanism and factors affecting AD processes.	3	3				2					2		
			C604.2	Able to understand drug metabolism, excretion understand the concepts of	3	2				2						2	
			C604.3	Understand the concepts of bioavailability and bioequivalence of drug products and	3	2				3						2	
			C604.4	Understand various pharmacokinetic models and their significance in interpreting	3	3				3						2	
			C604.5	Describe about multicompartment models	3	3				2						2	
			C604.6	Able to explain about nonlinearity	3	2				2						2	
					3.00	2.50			2.33					2.00			
			C605.1	After successful completion of the course student will be able to understand Brief	3	2				2	2						

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	Pharmaceutical		C605.2	Students will learn Study of cloning vectors, restriction endonucleases and DNA ligase.	3	2				2					
			C605.3	Students will learn Types of immunity- humoral immunity, cellular immunity	3	2					2				


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53	Biotechnology	BP605T	C605.4	They know very well about Immuno blotting techniques,Mutations	3	2				2	2						
			C605.5	Students know very well about Fermentation methods and general requirements.	3	2				2							
			C605.6	Students get knowledge about basics of biotechnology and its principles	3	2				2							
					3.00	2.00				2.00	2.00						
54	Quality Assurance	BP606T	C606.1	Describes roles and responsibilities of QA and QC departments in Pharma industry.	3	2	2	2		3					2		
			C606.2	States various philosophies of Total Quality Management to produce Quality	2	2	3	2		2						1	
			C606.3	Explain Quality control tests for Packaging materials and Acceptance limits of results.	3	2	1	2		2							1
			C606.4	Understanding significance of documentation in industry knowing contents of BFR,	3	2	1	2		2							2
			C606.5	Knowing the recalls of defective pharmaceutical goods & handling of return goods in	2	2	1	2		2							1
			C606.6	Gaining knowledge regarding cGMP, ICH, GLP Regulations for Pharmaceutical manufacturing industries.	3	2	1	2		2							1
					2.67	2.00	1.50	2.00		2.17					1.33		
55	Medicinal Chemistry III -Lab	BP607P	C607.1	Understand how to make correct use of various equipment& take safety measures	3	3	3										
			C607.2	Synthesize, recrystallize and understand reaction mechanisms involved in the	3				3	3							
			C607.3	To study the interpretation of UV spectra of unknown drugs.	3				2	2					2	2	
					3.00	3.00	3.00		2.50	2.50				2.00	2.00		
56	Pharmacology III- Lab	BP608P	C608.1	Students should learn the effects of various drugs on animal models and understand	3	2	2		2	3	3						
			C608.2	Students should be able to handle basic software's like ADMET lab, Swiss ADME	3	3	3			3	3		1	3			
			C608.3	Students shall be also able to understand the Biostatistics in Experimental	3	3	3			3	3				3		
					3.00	2.67	2.67		2.00	3.00	3.00		1.00	3.00			
57	Herbal Drug Technology -Lab	BP609P	C609.1	source	3	2	3		3	3	2	1			3		
			C609.2	Preparation and standardization of herbal extracts and their formulation development for external application as per regulatory guide lines	3	2	3	2	3	3	3	1	1	3	3		
			C609.3	mograph analysis from recent pharmacopeia	3	2	3	2	3	3	2	1			3		
					3.00	2.00	3	2	3	3	2.33	1	1	3	3		
			C701.1	techniques used in pharmaceutical analysis.	3					2				3			

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58	Instrumental Methods of Analysis	BP701T	C701.2	and NMR spectroscopy, in the analysis of pharmaceutical compounds.	3					2				3			
			C701.3	identification, and quantification of pharmaceutical substances.	3						2				3		
			C701.4	potentiometry and voltammetry, in pharmaceutical analysis.	2							2				3	
			C701.5	quantification of drugs and their metabolites.	2							2				3	
			C701.6	and interpret the results for pharmaceutical applications.	2							2				3	
					2.50					2.00				3.00			
59	Industrial Pharmacy II	BP702T	C702.1	The student shall be able to know the process of pilot plant and scale up of	3	3	2	1	2	1		1	1	1	2		
			C702.2	Able to understand the process of technology transfer from lab scale to commercial	3	3	2	1	2	1		1	1	1	3		
			C702.3	Able to explain different laws and acts that regulate pharmaceutical industry	3	3	2	1	3	2		1	2	1	3		
			C702.4	Able to discuss the approval process and regulatory requirements for drug products	3	3	2	1	3	2		1	2	1	3		
			C702.5	Able to have the knowledge about total quality management in industry	3	3	2	2	3	2		1	2	1	2		

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			C702.6	Able to gain knowledge about central and state licensing authority	3	3	2	2	3	2		1	2	1	2	
					3.00	3.00	2.00	1.33	2.67	1.67		1.00	1.67	1.00	2.50	
60	Pharmacy Practice	BP703T	C703.1	Discuss various drug distribution methods in a hospital	3	3	3									
			C703.2	Explain the pharmacy stores management and inventory control	2	2	3						3	1	1	
			C703.3	clinical review	3	3	3									
			C703.4	Find out drug related problems and assess adverse drug reactions	3	3	3		2	3	2		2			2
			C703.5	Explain the interpretation of selected laboratory results of specific disease states	3	3	2		2	2	2		2	3		
			C703.6	Explain the pharmaceutical care services	2	2	3	3	2	2			3	2		
					2.67	2.67	2.83	3.00	2.00	2.33	2.00	3.00	2.25	2.00	1.50	
61	Novel Drug Delivery System	BP704T	C704.1	drug delivery systems and understand the criteria for selection of drugs and polymers	3	3	3		2					3		
			C704.2	Discus the various multiparticulate systems for targeted drug delivery.	3	3								3	2	
			C704.3	transdermal, ocular, transmucosal, pulmonary and implantable devices.	3	3	2							3	1	
			C704.4	target tissues while reducing the relative concentration of the medication in the	3	3	3		2	2				3	1	
			C704.5	of systemic bioavailability, as a result of bypassing the first pass metabolism.	3	3	3							3	1	
			C704.6	bioavailability and patient compliance which is lacking in traditional eye drops.	3	3	3							3	1	
					3.00	3.00	2.80		2.00	2.00				3.00	1.20	
62	Industrial Methods Of Analysis -Lab	BP705P	C705.1	Develop practical skills in operating and calibrating instruments like UV-vis spectrophotometers, HPLC, GC and electrochemical cells.	3					2				3		
			C705.2	Analyzing data from instrumental methods, including plotting graphs, calculating conce	3					2				3		
			C705.3	Understanding various instrumental techniques, such as spectroscopy, chromatograph	3					2				3		
					3.00				2.00				3.00			
63	Practice School	BP706PS	C706.1	Apply gained theoretical knowledge into practical setting	3	3	3						2	2	3	
			C706.2	Understanding the importance and applications of different subjects and their correlation with practice of Pharmacy.	2	3	3						2	2	2	
			C706.3	Development of skills in the handling of modern tools for research experience.	2	3	3							3	2	
					2.33	3.00	3.00					2.00	2.33	2.33		
			C801.1	Know the various statistical methods to solve different types of problems	3	2				2						
			C801.2	Operate various statistical software packages	3	2										

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64	Biostatistics and Research Methodology	BP801T	C801.3	Appreciate the importance of Computer in hospital and Community Pharmacy	3											
			C801.4	Appreciate the statistical technique in solving the pharmaceutical problems	3	1				2						
			C801.5	regression Probability theory, Sampling technique, Parametric tests, Non-parametric	3	3	3			1			2	2		
			C801.6	To know the operation of M.S. Excel, SPSS, R and MINITAB, DOE (Design of Experiment)	3	3	2			1			2	2	2	
					3.00	2.20	2.50			1.50			2.00	2.00	2.00	
65	Social and Preventive Pharmacy	BP802T	C802.1	Explain the concepts and evaluation of public health	3	3	3	3	3	3	3	3	3		3	
			C802.2	Describe the aspects of Balanced Diet, Malnutrition and its preventive strategies	3	3	3	1	3	3	2	2	3		3	
			C802.3	Describe the principles of prevention and control of various communicable and non-	3	3	3	1	3	3	3	3	3		3	
			C802.4	Describe the various socio-cultural factors and their relevancy in health and disease	3	3	3	3	3	3	3	3	3		3	
			C802.5	Discuss the National Health programs, its objectives, functioning and outcomes	3	3	3	3	3	3	3	3	3		3	
			C802.6	Explain about various National intervention programs and discuss about the role of	3	3	3	3	3	3	3	3	3		3	
66	Pharmacovigilance	BP805ET	C805.1	Able to know why drug safety monitoring is important	3				3	3				3	3	
			C805.2	Discuss history and development of pharmacovigilance	3					3						
			C805.3	Appreciate national and international scenario of pharmacovigilance	3			2	3	3						
			C805.4	Describe ICH guide lines for ICSR, PSUR, Pharmacovigilance planning	3				3	3	2	3	3	2		
			C805.5	Explain CIOMS requirements for ADR reporting	3				3	3			3	3		
			C805.6	Able to write case narratives of adverse events and their quality	3	2	2		2	3	1		3		3	
					3	2	2	2	2.8	3	1.5	3	3	2	3	
67	Cosmetic Science	BP809ET	C809.1	Explain the basic concepts and various approaches for development of cosmetics.	3	2										
			C809.2	Formulate and evaluate various cosmeceutical products	2	2	3									
			C809.3	Know the key components used in different cosmeceutical products	2	2							3			
			C809.4	Recognize the role of ingredients and herbs used in cosmeceutical products	2											
			C809.5	scale and industry scale	3											
			C809.6	Employable skills and high technical competence for Pharmaceutical industry	3	3									3	
					2.5	2.25	3				3		3			
			C813.1	Identify the research problem by thorough literature survey.	3	3	3	2					2		2	


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PHARMACY CO-PO Matrix															
S.No.	SUBJECT NAME	SUBJECT CODE	CO - NUMBER	COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
68	Project Work	BP813PW	C813.2	Apply efficient tools for designing project	3	3	3	2					2	3	2
			C813.3	Demonstrate the completed project work and compile the project report.	3	3	3	2					3	3	3
					3.00	3.00	3.00	2.00					2.33	3.00	2.33


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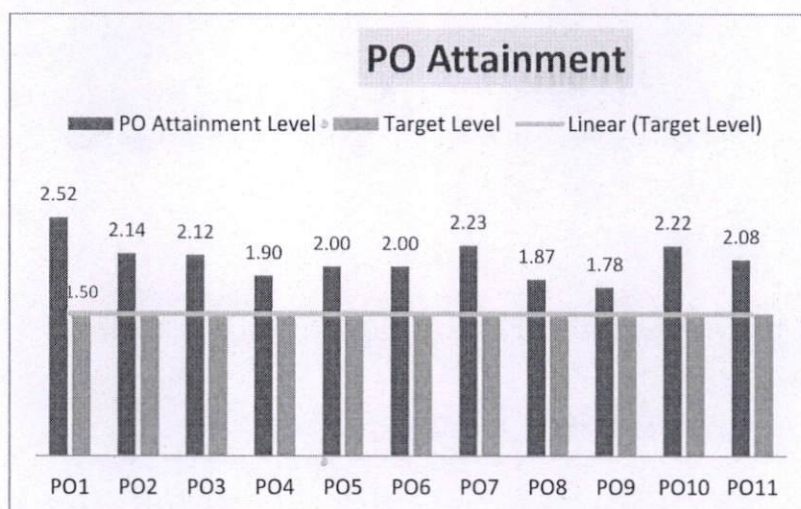


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PO		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
DIRECT ATTAINMENT LEVEL	PO ASSESSMENT (100%)	2.52	2.14	2.12	1.90	2.00	2.00	2.23	1.87	1.78	2.22	2.08
PO ATTAINMENT LEVEL		2.52	2.14	2.12	1.90	2.00	2.00	2.23	1.87	1.78	2.22	2.08
TARGET LEVEL		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
		A	A	A	A	A	A	A	A	A	A	A

** All Pos' are Attained



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S.NO	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
1	BP101T	X		X		X	X			X		X
2	BP102T	X	X	X		X	X				X	X
3	BP103T	X	X		X	X	X		X			X
4	BP104T	X	X			X	X			X	X	
5	BP105T	X			X					X		
6	BP106RMT	X	X	X		X	X			X	X	X
7	BP106RBT	X										
8	BP107P	X	X	X		X	X					
9	BP108P	X				X	X					
10	BP109P	X	X	X			X		X			
11	BP110P	X	X				X				X	X
12	BP111P	X			X					X	X	
13	BP112RBP	X										
14	BP201T	X	X	X			X					
15	BP202T		X	X		X	X					X
16	BP203T	X	X			X	X					
17	BP204T	X				X	X					
18	BP205T	X	X	X		X	X			X	X	X
19	BP206T		X	X	X		X	X				X
20	BP207P	X	X	X		X	X					
21	BP208P	X	X			X	X					X
22	BP209P	X				X	X					
23	BP210P	X	X	X		X	X			X	X	X
24	BP301T	X	X			X					X	X
25	BP302T	X	X	X								
26	BP303T	X	X	X		X	X	X		X	X	X
27	BP304T	X	X	X				X	X		X	X
28	BP305P	X	X	X		X	X					X
29	BP306P	X	X									
30	BP307P	X	X	X				X	X		X	X
31	BP308P	X	X									
32	BP401T	X	X	X	X	X	X	X			X	X
33	BP402T	X				X	X			X	X	X
34	BP403T	X	X	X								
35	BP404T	X	X	X		X	X	X	X	X	X	X
36	BP405T	X	X	X		X					X	
37	BP406P	X	X	X		X	X			X	X	X
38	BP407P	X	X									
39	BP408P	X	X	X		X	X		X	X	X	X
40	BP409P	X	X									
41	BP501T	X	X	X		X	X				X	
42	BP502T	X	X			X	X				X	
43	BP503T	X	X	X		X	X			X		
44	BP504T	X	X	X	X	X	X	X	X	X	X	X


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S.NO	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
45	BP505T	X	X	X	X	X	X	X	X	X	X	X
46	BP506P	X	X				X		X		X	
47	BP507P	X	X	X		X	X	X				
48	BP508P	X	X	X		X	X	X			X	X
49	BP601T	X	X	X		X	X				X	X
50	BP602T	X	X			X	X		X	X		X
51	BP603T	X	X	X		X	X	X	X	X	X	X
52	BP604T	X	X				X					X
53	BP605T	X	X				X	X				
54	BP606T	X	X	X	X		X					X
55	BP607P	X	X	X		X	X				X	X
56	BP608P	X	X	X		X	X	X		X	X	
57	BP609P	X	X	X	X	X	X	X	X	X	X	X
58	BP701T	X					X				X	
59	BP702T	X	X	X	X	X	X		X	X	X	X
60	BP703T	X	X	X	X	X	X	X	X	X	X	X
61	BP704T	X	X	X		X	X				X	X
62	BP705P	X					X				X	
63	BP706PS	X	X	X						X	X	X
64	BP801T	X	X	X			X			X	X	X
65	BP802T	X	X	X	X	X	X	X	X	X		X
66	BP805ET	X	X	X	X	X	X	X	X	X	X	X
67	BP809ET	X	X	X				X			X	
68	BP813PW	X	X	X	X					X	X	X

COUNT	66	57	43	14	42	51	18	16	26	38	38
TOTAL SUBJECTS	68	68	68	68	68	68	68	68	68	68	68
%	97.06	83.82	63.24	20.59	61.76	75.00	26.47	23.53	38.24	55.88	55.88
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11


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S.NO	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	PO	%										
	PO1	97										
	PO2	84										
	PO3	63										
	PO4	21										
	PO5	62										
	PO6	75										
	PO7	26										
	PO8	24										
	PO9	38										
	PO10	56										
	PO11	56										

COURSE-PO MAPPING

PO	Percentage
PO1	97
PO2	84
PO3	63
PO4	21
PO5	62
PO6	75
PO7	26
PO8	24
PO9	38
PO10	56
PO11	56


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Pharma-D CO-PO Matrix

S.No.	SUBJECT NAME	SUBJECT CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11		
1	Human Anatomy Physiology	17T00101					3	3					2		
			3				3	3				2			
			3					2							
			3				3	3	3	1					
			3	2					3						1
			3					3	3					3	
			3	2			3	2.8	3	1		2.5	1.5		
2	Pharmaceutics	17T00102	3	2											
			3	2											
			3	2											
			3	2	2										
			3	2	2										
			3	2											
			3.00	2.00	2.00										
			3				1	1				3			
			3	1			2	2				1	1		

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Pharma-D CO-PO Matrix														
3	Medicinal Biochemistry	17T00103	3	1	1		2	2				2	2	
			3	1	1		3	2				1	1	
			3				1	1				1	1	
			3	1			1	1				1	1	
			3.00	1.00	1.00		1.67	1.50				1.50	1.20	
4	Pharmaceutical Organic Chemistry	17T00104	3	2								2	2	
			3	2	1						1	2	2	
			2	1								1	1	
			2	1								1	1	
			3	2								1	2	2
			3	2								1	2	1
			2.67	1.67	1.00						1.00	1.67	1.50	
5	Pharmaceutical Inorganic Chemistry	17T00105	3	2			2	1				2	1	
			3	2			2	2				2	1	
			2	2			1	1				2	1	
			3	2			2	2				2	1	
			3	2			2	2				2	1	
			2	2			1	1				2	1	
			2	2			1	1				2	1	
			2.667	2			1.667	1.5			2	1		
6	Remedial Biology	17T00106	2											
			2											
			2											
			2											
			2											
			2											
			2											
			3	3	2			1		2	1	1	1	

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Pharma-D CO-PO Matrix													
7	Remedial Mathematics	17T00106	3	3	2			2			2	2	1
			3	3	1			1				1	1
			3	3	2	2		2			2	2	
			3	3									
			3	3			2	2			2	2	2
			3	3	1.75	2	2	1.6		2	1.75	1.6	1.25
8	Human Anatomy and Physiology Lab	17T00107	3				1	1					
			3				2	2					
			3	1			3	3				1	
			3	1			2	2				1	
9	Pharmaceutics -Lab	17T00108	3	2									
			3	2									
			3	2	2								
			3.00	2.00	2.00								
10	Medicinal Biochemistry- Lab	17T00109	3	1			3	3				2	2
			3	1			3	3				2	2
			3	1			2	2				1	1
			3.00	1.00			2.67	2.67				1.67	1.67
11	Pharmaceutical Organic Chemistry-Lab	17T00110	3	2	1			1	1		1	1	
			3	2	1			1	1		1	1	1
			3	2	1			1	1	1	1	1	1
			3.00	2.00	1.00			1.00	1.00	1.00	1.00	1.00	1.00
12	Pharmaceutical Inorganic Chemistry-Lab	17T00111	2	2				2	1				2
			3	2				2	1				2
			2	1				2	1				1
			2.33	1.67				2.00	1.00				1.67
			1										

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Pharma-D CO-PO Matrix												
13	Remedial Biology-Lab	17T00112	1									
			1									
			1.00									


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Pharma-D CO-PO Matrix													
14	Phatophysiology	17T00201	3				3	2					
			2				2	1					
			1				2						
			2										
			1										
			2										
			1.833				2.333	1.5					
15	Pharmaceutical Microbiology	17T00202	2				1	1	2			2	
			2				2	1	2			1	
			2				2	1	2			2	
			2				1	1	2			2	
			2				2	1	2			1	
			2				1	1	2			2	
			2.00				1.50	1.00	2.00			1.67	
16	Pharmacognosy & Phytopharmaceuticals	17T00203	3	3	3		3	3	2	3	3	3	
			3	3	3		2	3	3	3	2	3	3
			3	2				2	3			2	
			3	3	3		3	3	3			3	3
			3	3	3	3	3	3	3	3	3	3	3
			3	3	3	3	3	3	3	3	3	3	3
			3	2.833333	3	3	2.8	2.833	2.833	3	2.75	2.75	3
17	Pharmacology - I	17T00204	3	2	2		3	3	1	1		2	3
			3	2	2		3	3	1	1	2	2	3
			3	3	2		3	3	1	1	2	2	3
			3	3	2	2	3	3	1	2	2	2	3
			3	3	2	2	3	3	1	1	2	2	3
			3	3	2		3	3	1	2	2	2	3

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Pharma-D CO-PO Matrix														
			3.00	2.67	2.00	2.00	3.00	3.00	1.00	1.33	2.00	2.00	3.00	
18	Community Pharmacy	17T00205	3	3	3	2	3				2			
			3	3	3					2				
			3	3	3	2	2					3		
			3	3	1	1								
			3	3	3	3								
			3	3	2						3			
			3	3	2.5	2	2.5			2.5	2.5			
19	Pharmacotherapeutics -I	17T00206	3				3	3				2	2	
			3				3	3				2	2	
			3				3	3				2	2	
			3				3	3				2	2	
			3				3	3		2	3	2	2	
			3				3	3				2	2	
			3				3	3		2	3	2	2	
20	Pharmaceutical Microbiology lab	17T00207	2		2		2	1	2			3	2	
			2		2		2	1	2			3	2	
			2		2		2	1	2			3	2	
			2.00		2.00		2.00	1.00	2.00			3.00	2.00	
21	Pharmacognosy & Phytopharmaceuticals lab	17T00208	3	3	3	2	3	3	3	3		3	3	
			3	3			3	3	3				3	
			3	3			3	3	3			2	3	
			3	3	3	2	3	3	3	3		2.5	3	
22	Pharmacotherapeutics-I-Lab	17T00209	3	1	1		3	3	1	3		2	2	
			3	1	1		3	3					1	
			3	1	1		3	3					1	
			3.00	1.00	1.00		3.00	3.00	1.00	3.00		2.00	1.33	
			3	2	2		3	3	1	1	2	2	3	

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Pharma-D CO-PO Matrix													
23	Pharmacology - II	17T00301	3	2	2		3	3	1	2	1	2	3
			3	2	2	1	3	3	1	1	2	2	3
			3	2	2		3	3	1	2	1	2	3
			3	3	3		3	3	1	1	2	2	3
			3	2	2		3	3	1	1	2	2	3
			3.00	2.17	2.17	1.00	3.00	3.00	1.00	1.33	1.67	2.00	3.00
24	Pharmaceutical Analysis	17T00302	3				2	2			2	1	1
			3				2	2				2	2
			3	1	1		2	2			2	2	2
			3	1	1		3	3			1	3	3
			3	1	1		2	2			1	2	2
			3.00	1.00	1.00		2.33	2.33			1.40	2.17	2.17
25	Pharmacotherapeutics -II	17T00303	3				3	3					
			3				3	3					
			3	2			3	3					
			3	2			3	3					
			2				2	2					
			2.667	2			2.667	2.667					
26	Pharmaceutical Jurisprudence	17T00304	3				3			3			2
			3			2	3	2		2			1
			2				2	2		2			
			3			2	2	1		3			
			3			1	2	2		3			
			2.833			1.5	2.333	1.8		2.666667			1.6666667
			3	3	1					1	2	2	2

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Pharma-D CO-PO Matrix														
27	Medicinal Chemistry	17T00305	3	1								1	1	
			3	1								1	1	
			3	1									1	1
			3	1									1	1
			3	1									1	1
			3	1.333333	1					1	2	1.1667	1.1666667	
28	Pharmaceutical Formulations	17T00306	3				2	3			3			
			3	1	1			3			2			
			2	2				2						
			3	2				3						
			3	2				2					3	
			3	3				1				3		
			2.833	2	1		2	2.333		2.5		3		
29	Pharmacology- II-Lab	17T00307	3	2	2	1	2	2	1		1	2	2	3
			3	2	2	1	2	2	1		2	2	3	3
			3	1	2	2	1	2	1		2	2	3	3
			3.00	1.67	2.00	1.33	1.67	2.00	1.00	1.67	2.00	2.67	3.00	
30	Pharmaceutical Analysis-Lab	17T00308	3	1	1		3	3				1	2	2
			3	1	1		3	3				1	2	2
			3	1	1								1	2
			3.00	1.00	1.00		3.00	3.00			1.00	2.00	2.00	
31	Pharmacotherapeutics-II -Lab	17T00309	3	3			3	3				3		
			3	2			3	3				2		
			3				3	3					2	
			3.00	2.50			3.00	3.00				2.33		
32	Medicinal Chemistry Lab	17T00310	2	2	1			1	1	1	1	1	2	1
			3	2	1			1	1	1	1	1	2	1
			2	2	1			1	1	1	1	1	1	1

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Pharma-D CO-PO Matrix														
			2.33	2.00	1.00			1.00	1.00	1.00	1.00	1.67	1.00	
33	Pharmaceutical Formulations Lab	17T00311	3	2			3	2						
			3	2			2	2						
			3	2			2	3						
			3.00	2.00			2.33	2.33						
34	Pharmacotherapeutics- III	17T00401	3				3	3			2			
			3				3	3			2			
			3	1			3	2			2			
			3	1			2	2			2			
			3	1			2	2			2			
			2.833	1			2.5	2.333			2			
35	Hospital Pharmacy	17T00402	3	3	3						1			
			3	3	3									
			3	3	3	2	3							
			3	3	3			2						
			3	3	3							3	3	
			3	3	3	2	2.5				2		3	
36	Clinical Pharmacy	17T00403	3	1	1		3	3			1			
			3	1	1		3	3			1	3		
			3	1	1		3	3			1	3	3	1
			3	1	1		3	3			1	3	3	1
			3	1	1		3	3			1		3	1
			3	1	1		3	3			1			1
			3	1	1		3	3		1	3	3	1	
			1					1						
			3	3				2						

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Pharma-D CO-PO Matrix													
37	Biostatistics & Research Methodology	17T00404	3	3			2	2			2	3	
			3	3			2	2			2	2	3
			3	3	3		2	1			2		
			3	3	2			2			2	2	1
			2.667	3	2.5		2	1.667			2	2.3333	2
38	Biopharmaceutics & Pharmacokinetics	17T00405	3	1				1					
			3	3	2			1					
			3	3	1			1					
			3	3				1					
			3	2				1					
			3	2				3					
			3	2.333333	1.5			1.333					
39	Clinical Toxicology	17T00406	3				2	1					
			3	2			2	2					
			3	2			2	3					
			3	2			3	1					
			3	3			3	2			3		
			3	2			3	3			3		
			3	2.2			2.5	2			3		
40	Pharmacotherapeutics-III-Lab	17T00407	3	2			3	3					
			3	2			3	3					
			3	2			3	2					
			3.00	2.00			3.00	2.67					
41	Hospital Pharmacy-Lab	17T00408	3	3	3	2	3					2	
			3	3	3		2						
			3	3	3	1					3		
			3.00	3.00	3.00	1.50	2.50				3.00	2	

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Pharma-D CO-PO Matrix														
42	Clinical Pharmacy- Lab	17T00409	3	1	1		3	3		1	1			
			3	1	1		3	3		3	3			
			3	1	1		3	3		1	1	3	3	
			3.00	1.00	1.00		3.00	3.00		1.67	1.67	3.00	3.00	
43	Biopharmaceutics & Pharmacokinetics- Lab	17T00410	3	3									3	
			3	3				3					3	
			3	3				3						3
			3.00	3.00				3.00						3
44	Clinical Research	17T00501	3	2	2		2	2	1	2	1	3	2	
			2	2			1	2		2	1		2	
			3	2	2	2	2	2	1	2	1	2	2	
			2	2	2	2	2	2	1	2	1	2	2	
			3	1	2	2	1	2		1	2	1	1	
			2	2	1	1		2		2	1		1	
			2.50	1.83	1.80	1.75	1.60	2.00	1.00	1.83	1.17	2.00	1.67	
45	Pharmacoepidimology and Pharmacoeconomics	17T00502	3				3	3						
			3				3	3						
			3				3	3						
			3				3	3						
			3				3	3						
			3				3	3						
			3.00				3.00	3.00						
46	Clinical Pharmacokinetics & Pharmacotherapeutics Drug Monitoring	17T00503	3	3										
			3	3										
			3	3										
			3	3										
			3	3										
			3	3							3			

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Pharma-D CO-PO Matrix													
			3.00	3.00						3.00			
47	Clerkship	17T00504	3	3	3	2	2						
			3	3	3					2			
			3	3	3						2		
			3.00	3.00	3.00	2.00	2.00				2.00		
48	Project Work	17T00505	3	3	3	2					2	2	
			3	3	3	2					2	3	2
			3	3	3	2					3	3	3
			3.00	3.00	3.00	2.00					2.33	3.00	2.33


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Pharma-D CO-PO Matrix														
14	Phatophysiology	17T00201	3				3	2						
			2				2	1						
			1				2							
			2											
			1											
			2											
			1.833				2.333	1.5						
15	Pharmaceutical Microbiology	17T00202	2				1	1	2				2	
			2				2	1	2				1	
			2				2	1	2				2	
			2				1	1	2				2	
			2				2	1	2				1	
			2				1	1	2				2	
			2.00				1.50	1.00	2.00			1.67		
16	Pharmacognosy & Phytopharmaceuticals	17T00203	3	3	3		3	3	2	3	3		3	
			3	3	3		2	3	3	3	2	3	3	
			3	2				2	3				2	
			3	3	3		3	3	3				3	3
			3	3	3	3	3	3	3	3	3	3		3
			3	3	3	3	3	3	3	3	3	3	3	3
			3	2.833333	3	3	2.8	2.833	2.833	3	2.75	2.75	3	
17	Pharmacology - I	17T00204	3	2	2		3	3	1		1		2	3
			3	2	2		3	3	1		1	2	2	3
			3	3	2		3	3	1		1	2	2	3
			3	3	2	2	3	3	1		2	2	2	3
			3	3	2	2	3	3	1		1	2	2	3
			3	3	2		3	3	1		2	2	2	3

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Pharma-D CO-PO Matrix														
			3.00	2.67	2.00	2.00	3.00	3.00	1.00	1.33	2.00	2.00	3.00	
18	Community Pharmacy	17T00205	3	3	3	2	3				2			
			3	3	3					2				
			3	3	3	2	2					3		
			3	3	1	1								
			3	3	3	3								
			3	3	2						3			
			3	3	2.5	2	2.5			2.5	2.5			
19	Pharmacotherapeutics -I	17T00206	3				3	3				2	2	
			3				3	3				2	2	
			3				3	3				2	2	
			3				3	3				2	2	
			3				3	3		2	3	2	2	
			3				3	3				2	2	
			3				3	3		2	3	2	2	
20	Pharmaceutical Microbiology lab	17T00207	2		2		2	1	2			3	2	
			2		2		2	1	2			3	2	
			2		2		2	1	2			3	2	
			2.00		2.00		2.00	1.00	2.00			3.00	2.00	
21	Pharmacognosy & Phytopharmaceuticals lab	17T00208	3	3	3	2	3	3	3	3		3	3	
			3	3			3	3	3				3	
			3	3			3	3	3			2	3	
			3	3	3	2	3	3	3	3		2.5	3	
22	Pharmacotherapeutics-I -Lab	17T00209	3	1	1		3	3	1	3		2	2	
			3	1	1		3	3					1	
			3	1	1		3	3						1
			3.00	1.00	1.00		3.00	3.00	1.00	3.00		2.00	1.33	
			3	2	2		3	3	1	1	2	2	3	


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Pharma-D CO-PO Matrix													
23	Pharmacology - II	17T00301	3	2	2		3	3	1	2	1	2	3
			3	2	2	1	3	3	1	1	2	2	3
			3	2	2		3	3	1	2	1	2	3
			3	3	3		3	3	1	1	2	2	3
			3	2	2		3	3	1	1	2	2	3
			3.00	2.17	2.17	1.00	3.00	3.00	1.00	1.33	1.67	2.00	3.00
24	Pharmaceutical Analysis	17T00302	3				2	2			2	1	1
			3				2	2				2	2
			3	1	1		2	2			2	2	2
			3	1	1		3	3			1	3	3
			3	1	1		2	2			1	2	2
			3.00	1.00	1.00		2.33	2.33		1.40	2.17	2.17	
25	Pharmacotherapeutics -II	17T00303	3				3	3					
			3				3	3					
			3	2			3	3					
			3	2			3	3					
			2				2	2					
			2.667	2			2.667	2.667					
26	Pharmaceutical Jurisprudence	17T00304	3				3			3			2
			3			2	3	2		2			1
			2				2	2		2			
			3			2	2	1		3			
			3			1	2	2		3			
			2.833			1.5	2.333	1.8		2.666667		1.666667	
			3	3	1					1	2	2	2

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Pharma-D CO-PO Matrix														
27	Medicinal Chemistry	17T00305	3	1								1	1	
			3	1								1	1	
			3	1									1	1
			3	1									1	1
			3	1									1	1
			3	1.333333	1					1	2	1.1667	1.1666667	
28	Pharmaceutical Formulations	17T00306	3				2	3		3				
			3	1	1			3		2				
			2	2					2					
			3	2					3					
			3	2					2				3	
			3	3				1				3		
			2.833	2	1		2	2.333		2.5		3		
29	Pharmacology- II-Lab	17T00307	3	2	2	1	2	2	1	1	2	2	3	
			3	2	2	1	2	2	1	2	2	3	3	
			3	1	2	2	1	2	1	2	2	3	3	
			3.00	1.67	2.00	1.33	1.67	2.00	1.00	1.67	2.00	2.67	3.00	
30	Pharmaceutical Analysis-Lab	17T00308	3	1	1		3	3				1	2	2
			3	1	1		3	3				1	2	2
			3	1	1								1	2
			3.00	1.00	1.00		3.00	3.00				1.00	2.00	2.00
31	Pharmacotherapeutics-II -Lab	17T00309	3	3			3	3				3		
			3	2			3	3				2		
			3				3	3					2	
			3.00	2.50			3.00	3.00				2.33		
32	Medicinal Chemistry Lab	17T00310	2	2	1			1	1	1	1	1	2	1
			3	2	1			1	1	1	1	1	2	1
			2	2	1			1	1	1	1	1	1	1


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Pharma-D CO-PO Matrix													
			2.33	2.00	1.00			1.00	1.00	1.00	1.00	1.67	1.00
33	Pharmaceutical Formulations Lab	17T00311	3	2			3	2					
			3	2			2	2					
			3	2			2	3					
			3.00	2.00			2.33	2.33					
34	Pharmacotherapeutics- III	17T00401	3				3	3			2		
			3				3	3			2		
			3	1			3	2			2		
			3	1			2	2			2		
			3	1			2	2			2		
			2				2	2			2		
			2.833	1			2.5	2.333			2		
35	Hospital Pharmacy	17T00402	3	3	3						1		
			3	3	3								
			3	3	3	2	3						
			3	3	3								
			3	3	3		2						
			3	3	3						3		3
			3	3	3	2	2.5				2		3
36	Clinical Pharmacy	17T00403	3	1	1		3	3		1			
			3	1	1		3	3		1	3		
			3	1	1		3	3		1	3	3	1
			3	1	1		3	3		1	3	3	1
			3	1	1		3	3		1		3	1
			3	1	1		3	3		1			1
			3	1	1		3	3		1	3	3	1
			1					1					
			3	3				2					


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 Phone & Fax No :0861-2317966; Cell No :+91- 9392901053
 Email: principal.npc@narayanagroup.com Visit us:www.narayanapharmacycollege.com

Pharma-D CO-PO Matrix														
37	Biostatistics & Research Methodology	17T00404	3	3			2	2			2	3		
			3	3			2	2			2	2	3	
			3	3	3		2	1			2			
			3	3	2			2			2	2	1	
			2.667	3	2.5		2	1.667			2	2.3333	2	
38	Biopharmaceutics & Pharmacokinetics	17T00405	3	1				1						
			3	3	2			1						
			3	3	1			1						
			3	3				1						
			3	2				1						
			3	2				3						
			3	2.333333	1.5			1.333						
39	Clinical Toxicology	17T00406	3				2	1						
			3	2			2	2						
			3	2			2	3						
			3	2			3	1						
			3	3			3	2				3		
			3	2			3	3				3		
			3	2.2			2.5	2			3			
40	Pharmacotherapeutics-III-Lab	17T00407	3	2			3	3						
			3	2			3	3						
			3	2			3	2						
			3.00	2.00			3.00	2.67						
41	Hospital Pharmacy-Lab	17T00408	3	3	3	2	3						2	
			3	3	3		2							
			3	3	3	1					3			
			3.00	3.00	3.00	1.50	2.50				3.00		2	

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Pharma-D CO-PO Matrix													
42	Clinical Pharmacy- Lab	17T00409	3	1	1		3	3		1	1		
			3	1	1		3	3		3	3		
			3	1	1		3	3		1	1	3	3
			3.00	1.00	1.00		3.00	3.00		1.67	1.67	3.00	3.00
43	Biopharmaceutics & Pharmacokinetics- Lab	17T00410	3	3									3
			3	3				3					3
			3	3				3					
			3.00	3.00				3.00					3
44	Clinical Research	17T00501	3	2	2		2	2	1	2	1	3	2
			2	2			1	2		2	1		2
			3	2	2	2	2	2	1	2	1	2	2
			2	2	2	2	2	2	1	2	1	2	2
			3	1	2	2	1	2		1	2	1	1
			2	2	1	1		2		2	1		1
			2.50	1.83	1.80	1.75	1.60	2.00	1.00	1.83	1.17	2.00	1.67
45	Pharmacoepidimology and Pharmacoeconomics	17T00502	3				3	3					
			3				3	3					
			3				3	3					
			3				3	3					
			3				3	3					
			3				3	3					
			3.00				3.00	3.00					
46	Clinical Pharmacokinetics & Pharmacotherapeutics Drug Monitoring	17T00503	3	3									
			3	3									
			3	3									
			3	3									
			3	3									
			3	3							3		



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Pharma-D CO-PO Matrix														
			3.00	3.00							3.00			
47	Clerkship	17T00504	3	3	3	2	2							
			3	3	3							2		
			3	3	3							2		
			3.00	3.00	3.00	2.00	2.00					2.00		
48	Project Work	17T00505	3	3	3	2						2		2
			3	3	3	2					2	3	2	
			3	3	3	2					3	3	3	
			3.00	3.00	3.00	2.00						2.33	3.00	2.33


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Course to PO Mapping (Batch 2018) -Pharma-D

S.NO	COURSE CODE	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
1	17T00101	3.00	2.00			3.00	2.80	3.00	1.00		2.50	1.50
2	17T00102	3.00	2.00	2.00								
3	17T00103	3.00	1.00	1.00		1.67	1.50				1.50	1.20
4	17T00104	2.67	1.67	1.00						1.00	1.67	1.50
5	17T00105	2.67	2.00			1.67	1.50				2.00	1.00
6	17T00106	2.00										
7	17T00106	3.00	3.00	1.75	2.00	2.00	1.60		2.00	1.75	1.60	1.25
8	17T00107	3.00	1.00			2.00	2.00				1.00	
9	17T00108	3.00	2.00	2.00								
10	17T00109	3.00	1.00			2.67	2.67				1.67	1.67
11	17T00110	3.00	2.00	1.00			1.00	1.00	1.00	1.00	1.00	1.00
12	17T00111	2.33	1.67				2.00	1.00				1.67
13	17T00112	1.00										
14	17T00201	1.83				2.33	1.50					
15	17T00202	2.00				1.50	1.00	2.00			1.67	
16	17T00203	3.00	2.83	3.00	3.00	2.80	2.83	2.83	3.00	2.75	2.75	3.00
17	17T00204	3.00	2.67	2.00	2.00	3.00	3.00	1.00	1.33	2.00	2.00	3.00
18	17T00205	3.00	3.00	2.50	2.00	2.50			2.50	2.50		
19	17T00206	3.00				3.00	3.00		2.00	3.00	2.00	2.00
20	17T00207	2.00		2.00		2.00	1.00	2.00			3.00	2.00
21	17T00208	3.00	3.00	3.00	2.00	3.00	3.00	3.00	3.00		2.50	3.00
22	17T00209	3.00	1.00	1.00		3.00	3.00	1.00	3.00		2.00	1.33
23	17T00301	3.00	2.17	2.17	1.00	3.00	3.00	1.00	1.33	1.67	2.00	3.00
24	17T00302	3.00	1.00	1.00		2.33	2.33			1.40	2.17	2.17
25	17T00303	2.67	2.00			2.67	2.67					
26	17T00304	2.83			1.50	2.33	1.80		2.67			1.67
27	17T00305	3.00	1.33	1.00					1.00	2.00	1.17	1.17
28	17T00306	2.83	2.00	1.00		2.00	2.33		2.50		3.00	
29	17T00307	3.00	1.67	2.00	1.33	1.67	2.00	1.00	1.67	2.00	2.67	3.00
30	17T00308	3.00	1.00	1.00		3.00	3.00			1.00	2.00	2.00
31	17T00309	3.00	2.50			3.00	3.00			2.33		
32	17T00310	2.33	2.00	1.00			1.00	1.00	1.00	1.00	1.67	1.00
33	17T00311	3.00	2.00			2.33	2.33					
34	17T00401	2.83	1.00			2.50	2.33			2.00		
35	17T00402	3.00	3.00	3.00	2.00	2.50				2.00		3.00
36	17T00403	3.00	1.00	1.00		3.00	3.00		1.00	3.00	3.00	1.00
37	17T00404	2.67	3.00	2.50		2.00	1.67			2.00	2.33	2.00
38	17T00405	3.00	2.33	1.50			1.33					
39	17T00406	3.00	2.20			2.50	2.00			3.00		
40	17T00407	3.00	2.00			3.00	2.67					
41	17T00408	3.00	3.00	3.00	1.50	2.50				3.00		2.00
42	17T00409	3.00	1.00	1.00		3.00	3.00		1.67	1.67	3.00	3.00

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Course to PO Mapping (Batch 2018) -Pharma-D

43	17T00410	3.00	3.00				3.00					3.00
44	17T00501	2.50	1.83	1.80	1.75	1.60	2.00	1.00	1.83	1.17	2.00	1.67
45	17T00502	3.00				3.00	3.00					
46	17T00503	3.00	3.00						3.00			
47	17T00504	3.00	3.00	3.00	2.00	2.00				2.00		
48	17T00505	3.00	3.00	3.00	2.00					2.33	3.00	2.33

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S.NO	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
1	17T00101	X	X			X	X	X	X		X	X
2	17T00102	X	X	X								
3	17T00103	X	X	X		X	X				X	X
4	17T00104	X	X	X						X	X	X
5	17T00105	X	X			X	X				X	X
6	17T00106	X										
7	17T00106	X	X	X	X	X	X		X	X	X	X
8	17T00107	X	X			X	X				X	
9	17T00108	X	X	X								
10	17T00109	X	X			X	X				X	X
11	17T00110	X	X	X			X	X	X	X	X	X
12	17T00111	X	X				X	X				X
13	17T00112	X										
14	17T00201	X				X	X					
15	17T00202	X				X	X	X			X	
16	17T00203	X	X	X	X	X	X	X	X	X	X	X
17	17T00204	X	X	X	X	X	X	X	X	X	X	X
18	17T00205	X	X	X	X	X			X	X		
19	17T00206	X				X	X		X	X	X	X
20	17T00207	X		X		X	X	X			X	X
21	17T00208	X	X	X	X	X	X	X	X		X	X
22	17T00209	X	X	X		X	X	X	X		X	X
23	17T00301	X	X	X	X	X	X	X	X	X	X	X
24	17T00302	X	X	X		X	X			X	X	X
25	17T00303	X	X			X	X					
26	17T00304	X			X	X	X		X			X
27	17T00305	X	X	X					X	X	X	X
28	17T00306	X	X	X		X	X		X		X	
29	17T00307	X	X	X	X	X	X	X	X	X	X	X
30	17T00308	X	X	X		X	X			X	X	X
31	17T00309	X	X			X	X			X		
32	17T00310	X	X	X			X	X	X	X	X	X
33	17T00311	X	X			X	X					
34	17T00401	X	X			X	X			X		
35	17T00402	X	X	X	X	X				X		X
36	17T00403	X	X	X		X	X		X	X	X	X
37	17T00404	X	X	X		X	X			X	X	X
38	17T00405	X	X	X			X					
39	17T00406	X	X			X	X			X		
40	17T00407	X	X			X	X					
41	17T00408	X	X	X	X	X				X		X
42	17T00409	X	X	X		X	X		X	X	X	X
43	17T00410	X	X				X					X
44	17T00501	X	X	X	X	X	X	X	X	X	X	X
45	17T00502	X				X	X					
46	17T00503	X	X						X			
47	17T00504	X	X	X	X	X				X		
48	17T00505	X	X	X	X					X	X	X


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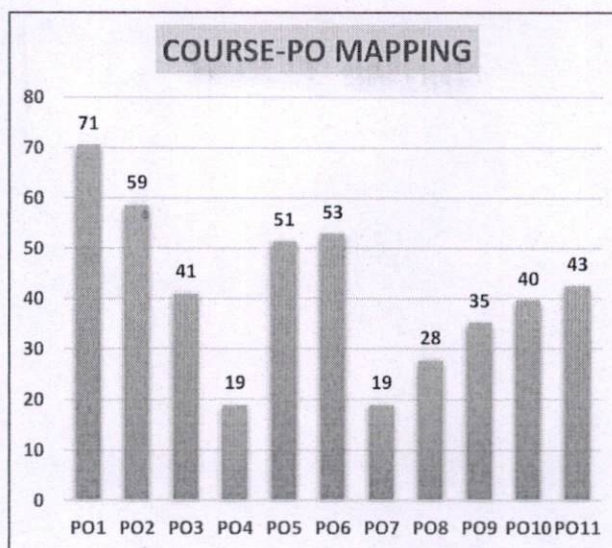
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NARAYANA PHARMACY COLLEGE:: NELLORE Course To PO Mapping (Batch 2018)-Pharma-D

COUNT	48	40	28	13	35	36	13	19	24	27	29
TOTAL SUBJECTS	68	68	68	68	68	68	68	68	68	68	68
%	70.59	58.82	41.18	19.12	51.47	52.94	19.12	27.94	35.29	39.71	42.65
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11

PO	%
PO1	71
PO2	59
PO3	41
PO4	19
PO5	51
PO6	53
PO7	19
PO8	28
PO9	35
PO10	40
PO11	43




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NARAYANA PHARMACY COLLEGE:: NELLORE

Attainment Levels of POs

S.NO	COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
1	17T00101	Human Anatomy Physiology		1.80	-	-	2.70	2.52	2.70	-	-	2.25	1.35
2	17T00102	Pharmaceutics	2.70	1.80	1.80	-	-	-	-	-	-	-	-
3	17T00103	Medicinal Biochemistry	2.70	0.90	0.90	-	1.50	1.35	-	-	-	1.35	1.08
4	17T00104	Pharmaceutical Organic Chemistry	2.40	1.50	-	-	-	-	-	-	0.90	1.50	1.35
5	17T00105	Pharmaceutical Inorganic Chemistry	2.40	1.80	-	-	1.50	1.35	-	-	-	1.80	0.90
6	17T00106	Remedial Biology	1.78	1.33	-	-	1.11	1.00	-	-	-	1.33	0.67
7	17T00106	Remedial Mathematics	1.30	1.30	0.76	-	-	0.69	-	-	0.76	0.69	0.54
8	17T00107	Human Anatomy and Physiology Lab	2.70	-	-	-	1.80	1.80	-	-	-	-	-
9	17T00108	Pharmaceutics -Lab	2.70	1.80	1.80	-	-	-	-	-	-	-	-
10	17T00109	Medicinal Biochemistry- Lab	2.70	0.90	-	-	2.40	2.40	-	-	-	1.50	1.50
11	17T00110	Pharmaceutical Organic Chemistry-Lab	2.70	1.80	0.90	-	-	0.90	0.90	-	0.90	0.90	0.90
12	17T00111	Pharmaceutical Inorganic Chemistry-Lab	2.10	1.50	-	-	-	1.80	0.90	-	-	-	1.50
13	17T00112	Remedial Biology-Lab	0.90	-	-	-	-	-	-	-	-	-	-
14	17T00201	Phatophysiology	1.65	-	-	-	2.10	1.35	-	-	-	-	-
15	17T00202	Pharmaceutical Microbiology	1.33	-	-	-	1.00	0.67	1.33	-	-	1.11	-
16	17T00203	Pharmacognosy & Phytopharmaceuticals	2.70	2.55	2.70	2.70	2.52	2.55	2.55	2.70	2.48	2.48	2.70
17	17T00204	Pharmacology - I	2.70	2.40	1.80	1.80	2.70	2.70	0.90	1.20	1.80	1.80	2.70
18	17T00205	Community Pharmacy	2.00	2.00	1.67	1.33	1.67	-	-	1.67	1.67	-	-
19	17T00206	Pharmacotherapeutics -I	2.70	-	-	-	2.70	2.70	-	1.80	2.70	1.80	1.80
20	17T00207	Pharmaceutical Microbiology lab	1.80	-	1.80	-	1.80	0.90	1.80	-	-	2.70	1.80
21	17T00208	Pharmacognosy & Phytopharmaceutic	2.70	2.70	2.70	1.80	2.70	2.70	2.70	2.70	-	2.25	2.70
22	17T00209	Pharmacotherapeutics-I -Lab	2.70	0.90	0.90	-	2.70	2.70	-	2.70	-	1.80	1.20
23	17T00301	Pharmacology - II	2.70	1.95	1.95	-	2.70	2.70	0.90	1.20	1.50	1.80	2.70
24	17T00302	Pharmaceutical Analysis	2.00	0.67	0.67	-	1.56	1.56	-	-	0.93	1.44	1.44
25	17T00303	Pharmacotherapeutics -II	2.40	1.80	-	-	2.40	2.40	-	-	-	-	-
26	17T00304	Pharmaceutical Jurisprudence	2.55	-	-	1.35	2.10	1.62	-	2.40	-	-	1.50

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NARAYANA PHARMACY COLLEGE:: NELLORE

Attainment Levels of POs

S.NO	COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
27	17T00305	Medicinal Chemistry	2.70	1.20	-	-	-	-	-	-	1.80	1.05	1.05
28	17T00306	Pharmaceutical Formulations	1.23	0.87	-	-	-	1.01	-	1.08	-	1.30	-
29	17T00307	Pharmacology- II-Lab	2.70	1.50	1.80	1.20	1.50	1.80	0.90	1.50	1.80	2.40	2.70
30	17T00308	Pharmaceutical Analysis-Lab	2.70	0.90	0.90	-	2.70	2.70	-	-	0.90	1.80	1.80
31	17T00309	Pharmacotherapeutics-II -Lab	2.70	2.25	-	-	2.70	2.70	-	-	2.10	-	-
32	17T00310	Medicinal Chemistry Lab	2.10	1.80	0.90	-	-	0.90	0.90	0.90	0.90	1.50	0.90
33	17T00311	Pharmaceutical Formulations Lab	2.70	1.80	-	-	2.10	2.10	-	-	-	-	-
34	17T00401	Pharmacotherapeutics- III	2.55	0.90	-	-	2.25	2.10	-	-	1.80	-	-
35	17T00402	Hospital Pharmacy	2.70	2.70	2.70	1.80	2.25	-	-	-	1.80	-	2.70
36	17T00403	Clinical Pharmacy	2.70	0.90	0.90	-	2.70	2.70	-	0.90	2.70	2.70	0.90
37	17T00404	Biostatistics & Research Methodology	2.40	2.70	2.25	-	1.80	1.50	-	-	1.80	2.10	1.80
38	17T00405	Biopharmaceutics & Pharmacokinetic	2.70	2.10	1.35	-	-	1.20	-	-	-	-	-
39	17T00406	Clinical Toxicology	2.70	1.98	-	-	2.25	1.80	-	-	2.70	-	-
40	17T00407	Pharmacotherapeutics-III- Lab	2.70	1.80	-	-	2.70	2.40	-	-	-	-	-
41	17T00408	Hospital Pharmacy-Lab	2.70	2.70	2.70	1.35	2.25	-	-	-	2.70	-	1.80
42	17T00409	Clinical Pharmacy- Lab	2.70	0.90	0.90	-	2.70	2.70	-	1.50	1.50	2.70	2.70
43	17T00410	Biopharmaceutics & Pharmacokinetic	2.70	2.70	-	-	-	2.70	-	-	-	-	2.70
44	17T00501	Clinical Research	2.25	1.65	1.62	1.58	1.44	1.80	0.90	1.65	1.05	1.80	1.50
45	17T00502	Pharmacoepidimology and Pharmacoe	2.70	-	-	-	2.70	2.70	-	-	-	-	-
46	17T00503	Clinical Pharmacokinetics & Pharmac	2.70	2.70	-	-	-	-	-	2.70	-	-	-
47	17T00504	Clerkship	2.70	2.70	2.70	1.80	1.80	-	-	-	1.80	-	-
48	17T00505	Project Work	3.00	3.00	3.00	2.00	-	-	-	-	2.33	3.00	2.33
AVERAGE			2.42	1.78	1.68	1.70	2.16	1.92	1.45	1.77	1.72	1.81	1.71

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NARAYANA PHARMACY COLLEGE
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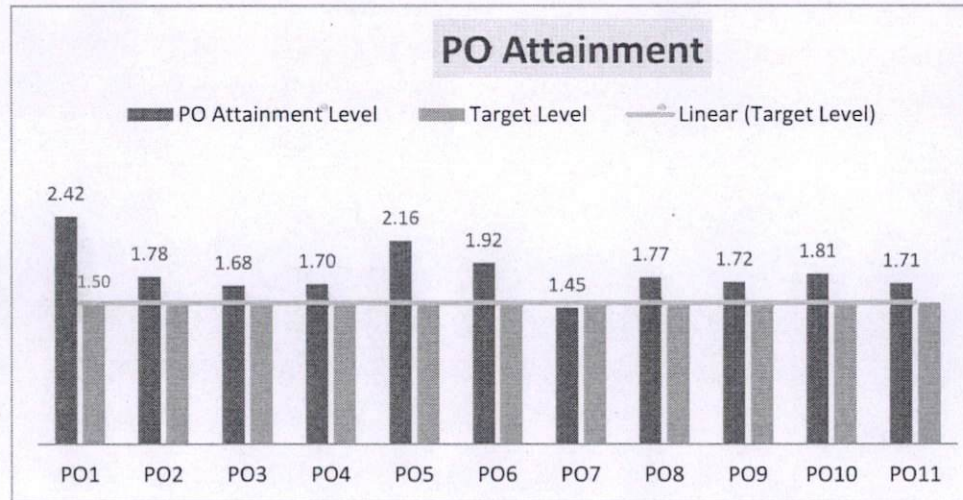
NARAYANA PHARMACY COLLEGE

(Approved by PCI & AICTE, New Delhi) (Affiliated to JNTUA Ananthapuramu)
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PO Attainment -PHARMA-D

PO		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
DIRECT ATTAINMENT LEVEL	PO ASSESSMENT (100%)	2.42	1.78	1.68	1.70	2.16	1.92	1.45	1.77	1.72	1.81	1.71
PO ATTAINMENT LEVEL		2.42	1.78	1.68	1.70	2.16	1.92	1.45	1.77	1.72	1.81	1.71
TARGET LEVEL		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
		A	A	A	A	A	A	NA	A	A	A	A



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