

## Criterion 2: Teaching- Learning and Evaluation



**PES MODERN COLLEGE OF PHARMACY**  
(NBA Accredited) (FOR LADIES)

Approved by AICTE, New Delhi (F.No.06/07/M6/PHARMA/2004/047, DTE,Mumbai (2/NGC/2004/342)  
Government of Maharashtra No. TEM/2004(235/04) TE-1, Pharmacy Council of India (32-347/2012-PC),  
Permanently affiliated to Savitribai Phule Pune University, ID No. PU/PN/Pharmacy/200/2004



Prof. Dr. S. N. Dhole  
M. Pharm., Ph. D.  
Principal

**PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY**

Prof. Dr. G. R. Ekbote,  
(M.S., M.N.A.M.S.) Chairman,  
Business Council P.E. Society, Pune

**2.6.2 Attainment of POs and COs are evaluated. Explain with evidence in a maximum of 500 words**

### INDEX

Sr. No.	Contents
<b>B. Pharmacy</b>	
1	<a href="#">Course Outcomes (Sample)</a>
2	<a href="#">CO-PO Desired Mapping Report (Sample)</a>
3	<a href="#">Result Analysis (Sample)</a>
4	<a href="#">CO-PO Attainment Report (Sample)</a>
5	<a href="#">Desired CO-PO Mapping (Sample)</a>
6	<a href="#">Calculated CO-PO Attainment (Sample)</a>
<b>M. Pharmacy</b>	
1	<a href="#">Course Outcomes (Sample)</a>
2	<a href="#">CO-PO Desired Mapping Report (Sample)</a>
3	<a href="#">Result Analysis (Sample)</a>
4	<a href="#">CO-PO Attainment Report (Sample)</a>
5	<a href="#">Desired CO-PO Mapping (Sample)</a>
6	<a href="#">Calculated CO-PO Attainment (Sample)</a>

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### 1. Course Outcomes (Sample)

#### Pharmaceutical Regulatory science [ Theory | elective ]

CO ID.	Course Outcome
BP804ET.CO1	Explain registration of Indian Drugs in the overseas market
BP804ET.CO2	Describe the basic concept of clinical trials, protocols, pharmacovigilance, and its significance
BP804ET.CO3	Understand the process of New Drug Discovery and Development
BP804ET.CO4	Know the different Regulatory authorities and agencies governing the manufacturing and sale of pharmaceuticals
BP804ET.CO5	Learn the importance of Orange book, Federal register, Code of federal regulatory and Purple book



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### 2. CO-PO Desired Mapping Report (Sample)

Pharmaceutical Regulatory science [Theory   elective ]											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP804ET.CO3	3	2	3	3		3	3	2	3		3
BP804ET.CO4	3	2	3	3		3	3	2	3		3
BP804ET.CO1	3	3	3	3		3	3	3	3		3
BP804ET.CO2	3	2	2	3		3	3	3	2		3
BP804ET.CO5	3	2	2	3		2	3	2	2		3
Average	3	2.2	2.6	3		2.8	3	2.4	2.6		3



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### 3. Result Analysis (Sample)

**PES Modern College of  
Pharmacy (for Ladies),  
Moshi**

**Subject :** Pharmaceutical Regulatory science

**Academic Year :** 2021-22

**Name of course & year :** - EIGHTH SEMESTER

**Faculty :** Bhagyashri Bhanage

Roll No.	Name of Candidate	Attendance		Teacher-Student Int...	Average		Average Total (25.00)
		Out of 4	Out of 2		Out of 15	Out of 4	
		0000-00-00	0000-00-00				
9	Nikita Deoker	3.47	1.00		10.50	3.40	18.37
10	Priyanka Dumbare	3.73	1.00		9.00	3.40	17.13
15	Anjalee Gite	3.56	1.00		8.50	3.40	16.46
19	Aishwarya Kadam	3.82	1.00		9.50	3.40	17.72
25	Sanskriti Khedkar	3.82	1.00		10.00	3.00	17.82
26	Gauri Khot	4.00	2.00		8.75	3.60	18.35
28	Aditi Lakade	3.73	2.00		10.50	3.20	19.43
30	Juveriya Momin	3.64	1.00		12.00	3.40	20.04
40	Pooja Pharate	3.82	2.00		10.25	3.40	19.47
42	Preeti Sakore	3.82	2.00		10.00	3.00	18.82
46	Akanksha Shinde	3.82	2.00		12.00	3.60	21.42
50	Snehal Kamate	3.64	1.00		11.00	3.40	19.04
55	Rutuja Yadav	3.56	1.00		11.75	3.40	19.71
57	Swapnali Zadke	3.91	2.00		12.00	3.60	21.51
60	Neha Ganje	3.64	1.00		10.75	3.40	18.79
61	Shrutika Gunjal	3.56	1.00		9.25	3.40	17.21
65	Rajashri Karkhile	3.82	1.00		10.00	3.20	18.02
67	Arti Shejul	3.73	1.00		10.25	3.40	18.38

Signature of staff

Signature of HOD / Principal



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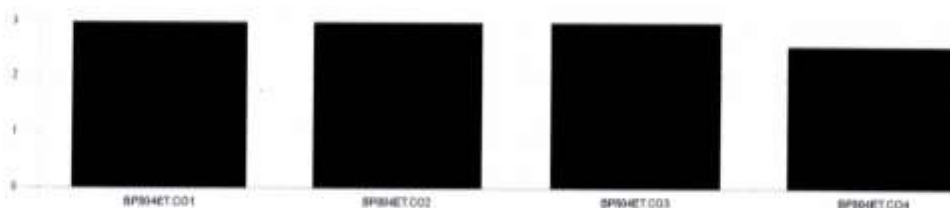
### 4. CO-PO Attainment Report (Sample)

#### PES Modern College of Pharmacy (for Ladies), Moshi

Pharmaceutical Regulatory science - Theory (2021-22) [ Bhagyashri. Bhanage parande ]

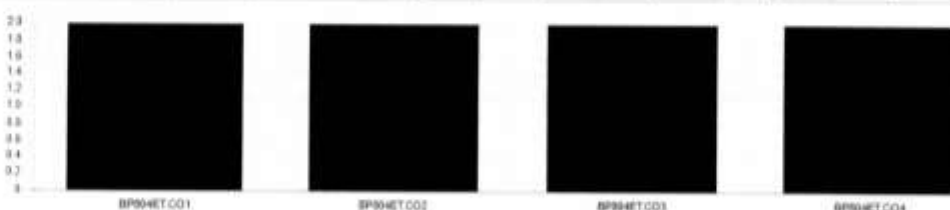
##### Internal Assessment

Title	Type	% Weightage	BP804ET.CO1	BP804ET.CO2	BP804ET.CO3	BP804ET.CO4	BP804ET.CO5
2nd Sessional Theory Exam PRS	Internal	30			0.90	0.60	
Assignment	Internal	16				0.48	0.48
Improvement Examination of PRS	Internal	30	0.90	0.90			
Attendance	Internal	16	0.48	0.48	0.48	0.48	0.48
Teacher-Student Interaction	Internal	8	0.24	0.24	0.24	0.24	0.24
Percent course outcome weightage			54.00	54.00	54.00	70.00	46.00
Attainment as per percent weightage			1.62	1.62	1.62	1.80	1.20
Final attainment			3	3	3	2.57	3



##### External Assessment

Title	Type	% Weightage	BP804ET.CO1	BP804ET.CO2	BP804ET.CO3	BP804ET.CO4	BP804ET.CO5
External SPPU	External	100	2.00	2.00	2.00	2.00	2.00
Percent course outcome weightage			100.00	100.00	100.00	100.00	100.00
Attainment as per percent weightage			2	2	2	2	2
Final attainment			2	2	2	2	2



##### Direct Total Attainment

Course Outcome	Internal	External
BP804ET.CO1	3.00	2.00
BP804ET.CO2	3.00	2.00
BP804ET.CO3	3.00	2.00
BP804ET.CO4	2.57	2.00
BP804ET.CO5	3.00	2.00
Average	2.91	2.00
Weightage	25	75



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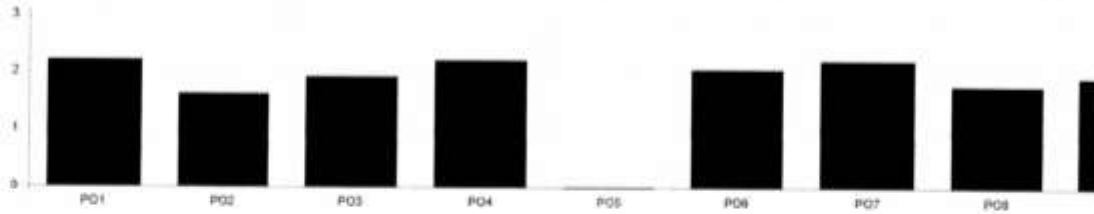
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Final Attainment	2.23	1.63	1.93	2.23		2.08	2.23	1.78	1.93		2.23
Percentage	74.33	54.33	64.33	74.33		69.33	74.33	59.33	64.33		74.33



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### 5. Desired CO-PO Mapping (Sample)

PES Modern College of Pharmacy (for Ladies), Moshi											
Batch 2018-2022											
B. Pharmacy											
Desired CO-PO MAPPING											
<b>First Year 18-19 (2018 Pattern)</b>											
Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP101T	1	1	1	1	1	1	1	1	2	1	1
BP102T	2	1	1.3	-	-	1	1	2	1	-	2
BP103T	2	2	1.6	-	-	1	2	1.66	2	-	2
BP104T	3	1	2	-	-	1	1.3	-	2	-	2
BP105T	1	3	2.74	2	2.74	1.8	3	3	1.75	-	3
BP106RMT	-	-	-	-	-	-	-	3	-	-	3
BP107P	1	1	1	1	1	1	1	1	2	1	1
BP108P	2	1	1.3	-	-	1	1	2	1	-	2
BP109P	2	2	1.8	-	-	1	1.4	1.8	1.25	1.25	2
BP110P	3	1	2	-	-	1	1.3	-	2	-	2
BP111P	-	-	-	2.33	2	2	1.5	2.2	-	-	2.4
BP201T	1	1	1	1	1	1	1	1	1	1	1
BP202T	1	2	2	-	2	1	2	2	2	2	2
BP203T	2	2	2	1	-	2	2	2	1.33	-	2.2
BP204T	1	1	1	1	1	2	1	1	2	2	2
BP205T	2	-	1	2	-	1	-	1	1	-	2
BP206T	2	2.5	2.2	2	3	2.33	2.33	2.5	3	3	3
BP207P	1	1	1	1	1	1	1	1	1	1	1
BP208P	1	2	2	-	2	1	2	2	2	2	2
BP209P	2	2	2	1	-	2	2	2	1.33	-	2.2
BP210P	1	1	-	2	-	1	-	1	1	-	2
<b>Second Year 19-20 (2018 Pattern)</b>											
BP301T	3	-	2.25	-	-	2	-	2	-	-	3
BP302T	2	2	2	-	2	2	2	2	2	2	3
BP303T	3	3	2	2	-	2	3	2	2	2	3
BP304T	3	2	2.6	2	-	2	-	2	2.8	-	3
BP305P	2.8	3	2.8	-	3	2.8	2.5	2	3	2.25	3
BP306P	3	2.8	2	2.4	2.2	2.2	2.4	2.2	2.6	2.4	3
BP307P	3	3	3	2.2	-	3	2.33	2	2.5	2	2.8
BP308P	3	2	2	2	-	2	-	3	2	-	3
BP401T	3	-	2	2	-	2	-	-	-	-	3
BP402T	3	-	2.5	2.5	-	3	-	-	3	-	3
BP403T	3	2	2	2	2	2	2	2.4	2	2	3
BP404T	3	-	2	2.5	-	-	-	2	2.6	-	3
BP405T	3	2.4	2.8	2.4	2	2.8	2.8	3	2.4	2.6	2.4
BP406P	3	2.5	2.5	2.67	-	2	-	-	-	3	3
BP407P	3	3	2.5	2.5	2.25	2.5	2.5	2.25	2.75	2.5	3
BP408P	3	2	2	2	2	2	2	2	2	2	2.2
BP409P	2.8	2	2.4	2.6	2.5	2.8	2.6	2.4	2	2.4	3
<b>Third Year 20-21 (2018 Pattern)</b>											
BP501T	3	2	2	-	-	2	2	-	-	-	3
BP502T	3	-	2.2	3	-	-	-	-	2.5	-	3
BP503T	3	2	2.33	2.25	-	2	-	-	-	-	3
BP504 T	3	3	2	2	-	2	2.5	-	3	3	3
BP505T	3	3	3	2	2	2	3	2	2.25	2	3
BP506P	3	2.67	2.75	3	-	-	-	2	3	-	3
BP507P	3	2.6	2.4	2.4	-	-	-	-	-	-	3
BP 508 P	3	3	2.25	2.5	2	2.5	-	-	-	3	3
BP601T	3	3	-	3	-	3	1	-	-	1	3
BP602T	3	3	3	3	3	3	3	3	3	3	3
BP603T	3	2.2	2.6	2.4	2	3	2	2.4	2.8	3	3
BP604T	3	1.75	2.2	1	1	1	1	1.25	1.5	1	1
BP 605 T	3	3	3	3	-	3	3	2	3	-	3
BP606T	3	2	3	2	-	2	2.4	2	2	-	3
BP607P	3	2	-	3	-	-	2	-	-	3	2
BP608P	3	3	3	3	3	3	3	3	3	3	3
BP609P.	3	2.33	3	2.33	2.33	2.67	2.33	3	2.33	3	3

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Final Year 21-22 (2018 Pattern)											
BP701T	3	-	3	3	3	2	-	2.2	-	2	3
BP702T	3	2.6	2.4	2.67	-	2.4	2.2	2.6	2.25	2	3
BP703T	3	3	2.6	3	3	3	3	3	3	1.8	3
BP704T	3	2.25	2.25	2.5	-	2	-	2	-	2	3
BP705P	3	3	3	3	2	2	2	3	2	2	3
BP706PS	3	3	3	3	3	-	-	3	-	-	3
BP801T	3	-	3	2.4	-	-	3	2.2	3	-	3
BP802T	3	3	3	3	3	3	3	3	3	3	3
BP804ET	3	2.2	2.6	3	-	2.8	3	2.4	2.6	-	3
BP805ET	3	3	3	3	-	3	3	3	3	-	3
BP806ET	3	2	2	-	-	-	2	-	2	2	3
BP807ET	3	-	3	3	-	-	2.4	2	3	3	3
BP809ET (CS)	3	-	-	2	-	-	3	2.2	2	-	3
BP810ET	3	3	3	3	3	3	3	3	3	3	3
BP813PW	3	3	3	3	3	2	3	3	3	3	2.63
Direct (100)	2.60	2.24	2.28	2.30	2.19	2.03	2.16	2.16	2.24	2.19	2.63
Direct (80%)	2.08	1.79	1.82	1.84	1.75	1.63	1.73	1.73	1.79	1.75	2.10
Indirect outcome (20%)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Sum	2.68	2.39	2.42	2.44	2.35	2.23	2.33	2.33	2.39	2.35	2.70





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### 6. Calculated CO-PO Attainment (Sample)

PES Modern College of Pharmacy (for Ladies), Moshi											
Batch 2018-2022											
B. Pharmacy											
Calculated Attainment Level											
First Year 18-19 (2018 Pattern)											
Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP101T	1	1	1	1	1	1	1	1	2	1	1
BP102T	2	1	1.3	-	-	1	1	2	1	-	2
BP103T	2	2	1.6	-	-	1	2	1.66	2	-	2
BP104T	3	1	2	-	-	1	1.3	-	2	-	2
BP105T	1	3	2.74	2	2.74	1.8	3	3	1.75	-	3
BP106RMT	-	-	-	-	-	-	-	3	-	-	3
BP107P	1	1	1	1	1	1	1	1	2	1	1
BP108P	2	1	1.3	-	-	1	1	2	1	-	2
BP109P	2	2	1.8	-	-	1	1.4	1.8	1.25	1.25	2
BP110P	3	1	2	-	-	1	1.3	-	2	-	2
BP111P	-	-	-	2.33	2	2	1.5	2.2	-	-	2.4
BP201T	1	1	1	1	1	1	1	1	1	1	1
BP202T	1	2	2	-	2	1	2	2	2	2	2
BP203T	2	2	2	1	-	2	2	2	1.33	-	2.2
BP204T	1	1	1	1	1	2	1	1	2	2	2
BP205T	2	-	1	2	-	1	-	1	1	-	2
BP206T	2	2.5	2.2	2	3	2.33	2.33	2.5	3	3	3
BP207P	1	1	1	1	1	1	1	1	1	1	1
BP208P	1	2	2	-	2	1	2	2	2	2	2
BP209P	2	2	2	1	-	2	2	2	1.33	-	2.2
BP210P	1	1	-	2	-	1	-	1	1	-	2
Second Year 19-20 (2018 Pattern)											
BP301T	2.25	-	1.69	-	-	1.5	-	1.5	-	-	2.25
BP302T	1.9	1.9	1.9	-	1.9	1.9	1.9	1.9	1.9	1.9	2.85
BP303T	3	3	2	2	-	2	3	2	2	2	3
BP304T	2.11	1.41	1.83	1.41	-	1.41	-	1.41	1.97	-	2.11
BP305P	2.8	3	2.8	-	3	2.8	2.5	2	3	2.25	3
BP306P	3	2.8	2	2.4	2.2	2.2	2.4	2.2	2.6	2.4	3
BP307P	2.96	2.96	2.96	2.17	-	2.96	2.3	1.97	2.47	1.97	2.76
BP308P	2.95	1.97	1.97	1.97	-	1.97	-	2.95	1.97	-	2.95
BP401T	3	-	2	2	-	2	-	-	-	-	3
BP402T	2.88	-	2.4	2.4	-	2.88	-	-	2.88	-	2.88
BP403T	3	2	2	2	2	2	2	2.4	2	2	3
BP404T	2.75	-	1.83	2.29	-	2.75	-	1.83	2.38	-	2.75
BP405T	2.96	2.36	2.76	2.36	1.97	2.76	2.76	2.96	2.36	2.56	2.36
BP406P	3	2.5	2.5	2.67	-	-	-	-	-	3	3



## Criterion 2: Teaching- Learning and Evaluation



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BP407P	2.95	2.95	2.46	2.46	2.21	2.46	2.46	2.21	2.7	2.46	2.95
BP408P	3	2	2	2	2	2	2	2	2	2	2.2
BP409P	2.8	2	2.4	2.6	2.5	2.8	2.6	2.4	2	2.4	3
BP501T	2.75	1.83	1.83	-	-	1.83	1.83	-	-	-	2.75
BP502T	2.85	-	2.09	2.85	-	-	-	-	2.38	-	2.85
BP503T	2.82	1.88	2.19	2.12	-	1.88	-	-	-	-	2.82
BP504 T	2.9	2.9	1.93	1.93	-	1.93	2.42	-	2.9	2.9	2.9
BP505T	2.2	2.2	2.2	1.47	1.47	1.47	2.2	1.47	1.65	1.47	2.2
BP506P	2.82	2.51	2.58	2.82	-	-	-	1.88	2.82	-	2.82
BP507P	2.89	2.51	2.31	2.31	-	-	-	-	-	-	2.89
BP 508 P	2.94	2.94	2.2	2.45	1.96	2.45	-	-	-	2.94	2.94
<b>Third Year 20-21 (2018 Pattern)</b>											
BP601T	2.75	2.75	-	2.75	-	2.75	0.92	-	-	0.92	2.75
BP602T	3	3	3	3	3	3	3	3	3	3	3
BP603T	2.86	2.09	2.48	2.28	1.9	2.36	1.9	2.28	2.67	2.86	2.86
BP604T	2.77	1.62	2.03	0.92	0.92	0.92	0.92	1.16	1.39	0.92	0.92
BP 605 T	2.85	2.85	2.85	2.85	-	2.85	2.85	1.9	2.85	-	2.85
BP606T	2.88	1.92	2.88	1.93	-	1.92	2.3	1.92	1.92	-	2.88
BP607P	2.75	1.83	-	2.75	-	1.83	1.83	-	-	2.75	1.83
BP608P	3	3	3	3	3	3	3	3	3	3	3
BP609P	2.82	2.19	2.82	2.19	2.19	2.82	2.51	2.19	2.82	2.19	2.82
<b>Final Year 21-22 (2018 Pattern)</b>											
BP701T	2.52	-	2.52	2.52	2.52	1.68	-	1.85	-	1.68	2.52
BP702T	2.84	2.46	2.27	2.53	-	2.27	2.08	2.46	2.13	1.89	2.84
BP703T	3	3	2.6	3	3	3	3	3	3	1.8	3
BP704T	2.81	2.11	2.11	2.35	-	1.88	-	1.88	-	1.88	2.81
BP705P	2.96	2.96	2.96	2.96	1.97	1.97	1.97	2.96	1.97	1.97	2.96
BP706PS	3	3	3	3	3	-	-	3	-	-	3
BP801T	2.97	-	2.97	2.38	-	-	2.97	2.18	2.97	-	2.97
BP802T	3	3	3	3	3	2	3	3	3	3	3
BP804ET	2.23	1.63	1.93	2.23	-	2.08	2.23	1.78	1.93	-	2.23
BP805ET	3	3	3	3	-	3	3	3	3	-	3
BP806ET	3	2	2.2	2.5	-	2	2.4	2	2.8	2.4	3
BP807ET	2.92	-	2.92	2.92	-	-	2.33	1.94	2.92	2.92	2.92
BP809ET	2.97	-	-	1.98	-	-	2.97	2.18	1.98	-	2.97
BP810ET	3	3	3	3	3	2	3	3	3	3	3
BP813PW	3	3	3	3	3	2	3	3	3	3	3
Direct Average	2.49	2.16	2.19	2.21	2.14	1.93	2.10	2.09	2.18	2.14	2.53
Direct Average (80%)	1.99	1.73	1.75	1.77	1.71	1.54	1.68	1.67	1.74	1.71	2.02
Indirect outcome (20%)	0.49	0.5	0.57	0.5	0.56	0.57	0.49	0.57	0.49	0.58	0.59
Sum	2.48	2.23	2.32	2.27	2.27	2.11	2.17	2.24	2.23	2.29	2.61



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### 1.Course Outcomes (Sample)

#### PES Modern College of Pharmacy (for Ladies), Moshi

Pharmaceutics [2021-22]

##### Course Outcome


**Year :** First Year - First Semester

**Subject :** Drug Delivery System 1( Theory | Regular )

**Course In-charge :** Dr.Raksha Laxman Mhetre

Sr. No.	CO Id	Course Outcome
1	CO1	Describe the fundamental concepts of modified drug release, prerequisites of drug candidates for modified release and polymers along with their application in NDDS.
2	CO2	Provide knowledge regarding recent development/approches of muco-adhesive dosage forms.
3	CO3	To create awareness of different personalized drug delivery system, buccal and mucoadhesive drug delivery system
4	CO4	Students would learn ocular, protein and vaccine drug delivery system.



  
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### 2.CO-PO Desired Mapping Report (Sample)



**PES Modern College of Pharmacy (for Ladies), Moshi**  
Pharmaceutics [2021-22]

#### CO PO Desired Mapping Report

**Year :** First Year - First Semester  
**Subject :** Drug Delivery System 1 - Theory  
**Faculty :** Dr.Raksha Laxman Mhetre

##### Course Outcome Details

#	Course Outcome	Description
1	CO1	Describe the fundamental concepts of modified drug release, prerequisites of drug candidates for modified release and polymers along with their application in NDDS.
2	CO2	Provide knowledge regarding recent development/approches of muco-adhesive dosage forms.
3	CO3	To create awareness of different personalized drug delivery system, buccal and mucoadhesive drug delivery system
4	CO4	Students would learn ocular, protein and vaccine drug delivery system.

##### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
CO1	3			2	3			2			2	2	
CO2	3			2	3			2			2	2	
CO3	3			2	3			2			2	2	
CO4	3			2	3			2			2	2	
Average	3.00			2.00	3.00			2.00			2.00	2.00	

Desired Attainment Average : 2.33



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## Criterion 2: Teaching- Learning and Evaluation



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Business Council P.E. Society, Pune

### 3. Result Analysis (Sample)

**PES Modern College of Pharmacy (for Ladies), Moshi**

**Subject : Drug Delivery System 1 (Theory)**

**Academic Year : 2021-22**

**Name of course & year - First Semester**

**Faculty : Dr.Raksha Laxman Mhetre**

Roll No.	Name of Candidate	First	Second	Student	attendance	Sessional	Summation
		sessional	sessional				
		exam	ex...				
		Out of 30	Out of 30	Out of 2	Out of 8	Out of 15	Out of 25.00
		2022-02-15	2022-03-08	2022-03-14	2022-03-14		
13	Simran Valecha	17.00	19.00	2.00	8.00	9.00	19.00
3	Rutuja Bhangare	14.00	19.00	2.00	8.00	8.00	18.00
12	Dakshayani Swami	14.00	16.00	2.00	8.00	8.00	18.00
11	Jyoti Shrangare	12.00	20.00	2.00	8.00	8.00	18.00
2	Rushali Bedjawalge	22.00	16.00	2.00	6.00	10.00	18.00
5	Supriya Huljute	16.00	16.00	2.00	8.00	8.00	18.00
10	Harshda Narhare	16.00	21.00	2.00	8.00	9.00	19.00
14	Anjali Wadhokar	15.00	15.00	2.00	8.00	8.00	18.00
6	Komal Kawale	28.00	15.00	2.00	8.00	11.00	21.00
4	Shruti Burad	20.00	17.00	2.00	8.00	9.00	19.00
15	Simran Yadav	21.00	19.00	2.00	8.00	10.00	20.00
8	Shivanjali Madane	18.00	22.00	2.00	8.00	10.00	20.00
7	Aishwarya Kharabi	22.00	20.00	2.00	8.00	11.00	21.00
1	Neha Autade	19.00	22.00	2.00	8.00	10.00	20.00
9	Karishma Markad	21.00	22.00	2.00	8.00	11.00	21.00

Signature of staff  
Signature of HOD / Principal



  
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## Criterion 2: Teaching- Learning and Evaluation



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### 4.CO-PO Attainment Report (Sample)

**PES Modern College of Pharmacy (for Ladies), Moshi**

**Drug Delivery System 1 - Theory (2022-23) [ Dr.Raksha Laxman Mhetre ]**

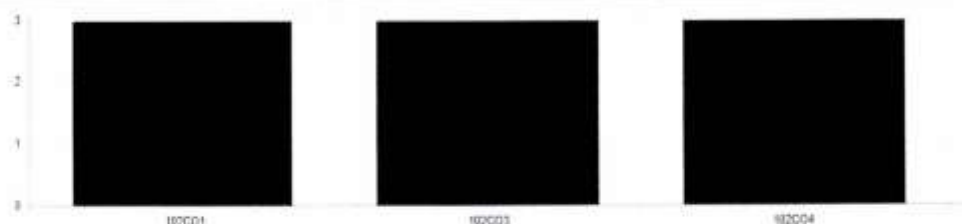
**Internal Assessment**

Title	Type	% Weightage	102CO1	102CO3	102CO4	102CO2
First sessional exam	Internal	30	0.60	0.60		
Second sessional	Internal	30			0.90	0.90
Student interaction	Internal	8	0.24	0.24	0.24	0.24
Attendance	Internal	32	0.96	0.96	0.96	0.96
Percent course outcome weightage			70.00	70.00	70.00	70.00
Attainment as per percent weightage			1.80	1.80	2.10	2.10
Final attainment			2.57	2.57	3	3



**External Assessment**

Title	Type	% Weightage	102CO1	102CO3	102CO4	102CO2
SPPU	External	100	3.00	3.00	3.00	3.00
Percent course outcome weightage			100.00	100.00	100.00	100.00
Attainment as per percent weightage			3	3	3	3
Final attainment			3	3	3	3



**Direct Total Attainment**

Course Outcome	Internal	External
102CO1	2.57	3.00
102CO3	2.57	3.00
102CO4	3.00	3.00
102CO2	3.00	3.00
Average	2.79	3.00
Weightage	25	75
Direct Total Attainment	0.70	2.25
Final Direct Course Attainment		2.95



## Criterion 2: Teaching- Learning and Evaluation



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### 5. Desired CO-PO Mapping (Sample)

PES Modern College of Pharmacy (for Ladies), Moshi														
Batch 2021-2023														
M. Pharmacy (Pharmaceutics)														
DESIRED ATTAINMENT LEVEL DIAGONAL														
FIRST YEAR 2021-2022														
SEM-I														
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
MPAT101T	Modern Pharmaceutical Analytical	3	2.5	3	3		2	2	2	2	2	3	2	
MPH102T	Drug Delivery System	3			2	3			2			2	2	
MPH103T	Modern Pharmaceutics	3	2.5	2	2.5		2	3		2.25	2.5	3	3	
MPH104T	Regulatory Affairs	3		2	2			2	2.75	2		3	3	
MPH105P	Pharmaceutics (Practical I)	3	3	3	3	3	2	3			2	3	3	
MPH106	Seminar/Assignment	3	3	3	3	3	3	3	3	3	3	3	3	
SEM-II														
MPH201	Molecular Pharmaceutics	3				2			3			2	2	
MPH202	Advanced Biopharmaceutics &	3	2.25	3	1.75		3	2		2	1.5	3	3	
MPH203T	Computer Aided Drug Development	3		2	2.67			2		2		3	3	
MPH204T	Cosmetic and Cosmeceuticals	3	2	2.67				2		2.25		3	3	
MPH205P	Pharmaceutics (Practical II)	3	3	3	3	3	2	3			2	3	3	
MPH206	Seminar/Assignment	3	2	3					3			3	3	
SECOND YEAR 2022-2023														
SEM-III														
MPH301	Research Methodology and Biostatistics	3	2	3	3		2	3	2.5	3		3	3	
MPH302	Journal club	3	2.25	2	2	2			3			2.25	3	
MPH303	Discussion and proposal presentation	3	3	3	3	3	3	3	3	3	3	3	3	3
MPH304	Research Work	3	3	3	3	3	3	3	3	3	3	3	3	3
MPH305	Introduction to Constitution					1	2	2.75	1.5			2.25		
SEM-IV														
MPH401	Journal club	3	2	2	3	3		3	3			3	3	
MPH402	Research Work	3	3	3	3	3	3	3	3	3	3	3	3	3
MPH403	Discussion and proposal presentation	3	3	3	3	3	3	3	3	3	3	3	3	3
MPH404	Cocurricular Activities	3	3	3	3	3	3	3	3	3	3	3	3	3
Direct Average		3.00	2.59	2.70	2.70	2.69	2.54	2.69	2.72	2.58	2.55	2.83	2.85	3.00
Direct Average (80%)		2.40	2.08	2.16	2.16	2.15	2.03	2.15	2.17	2.06	2.04	2.27	2.28	2.40
Indirect outcome (20%)		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Average (100%)		3.00	2.68	2.76	2.76	2.75	2.63	2.75	2.77	2.66	2.64	2.87	2.88	3.00





## Criterion 2: Teaching- Learning and Evaluation



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### 6. Calculated CO-PO Attainment (Sample)

PES Modern College of Pharmacy (for Ladies), Moshi														
Batch 2021-2023														
M. Pharmacy (Pharmaceutics)														
CALCULATED ATTAINMENT LEVEL														
FIRST YEAR 2021-2022														
SEM-I														
Course Code	Course Title	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
MPAT101	Modern Pharmaceutical Analytical Techniques	2.82	2.25	2.82	2.82		1.88	1.88	1.88	1.88	1.88	2.82	1.88	
MPH102T	Drug Delivery System	2.87			1.92	2.87			1.92			1.92	1.92	
MPH103T	Modern Pharmaceutics	3	2.5	2	2.5		2	3		2.25	2.5	3	3	
MPH104T	Regulatory Affairs	2.92		1.94	1.94			1.94	2.67	1.94		2.92	2.92	
MPH105P	Pharmaceutics (Practical I)	2.94	2.94	2.94	2.94	2.94	1.96	2.94			1.96	2.94	2.94	
MPH106	Seminar/Assignment	3	3	3	3	3	3	3	3	3	3	3	3	3
SEM-II														
MPH201	Molecular Pharmaceutics	2.95				1.96			2.95			1.96	1.96	
MPH202	Advanced Biopharmaceutics & Pharmacokinetics	2.81	2.11	2.81	1.64		2.81	1.88		1.88	1.41	2.81	2.81	
MPH203T	Computer Aided Drug Development	3		2	2.67					2		3	3	
MPH204T	Cosmetic and Cosmeceuticals	2.95	1.96	2.62				1.96		2.21		2.95	2.95	
MPH205P	Pharmaceutics (Practical II)	2.95	2.95	2.95	2.95	2.95	1.97	2.95			1.97	2.95	2.95	
MPH206	Seminar/Assignment	3	2	3					3			3	3	
SECOND YEAR 2022-2023														
SEM-III														
MPH301	Research Methodology and Biostatistics	3	2	3	3		2	3	2.5	3		3		
MPH302	Journal club	3	2.25	2	2	2			3			2.25	3	
MPH303	Discussion and proposal presentation	3	3	3	3	3	3	3	3	3	3	3	3	3
MPH304	Research Work	3	3	3	3	3	3	3	3	3	3	3	3	3
MPH305	Introduction to Constitution					1	2	2.75	1.5			2.25		
SEM-IV														
MPH401	Journal club	3	2	2	3	3		3	3			3	3	
MPH402	Research Work	3	3	3	3	3	3	3	3	3	3	3	3	3
MPH403	Discussion and proposal presentation	3	3	3	3	3	3	3	3	3	3	3	3	3
MPH404	Cocurricular Activities	3	3	3	3	3	3	3	3	3	3	3	3	3
	Direct Average	2.96	2.57	2.67	2.67	2.67	2.51	2.71	2.69	2.55	2.52	2.80	2.81	3.00
	Direct Average (80%)	2.37	2.05	2.14	2.14	2.14	2.01	2.17	2.16	2.04	2.02	2.24	2.25	2.40
	Indirect outcome (20%)	0.51	0.44	0.42	0.4	0.52	0.49	0.4	0.49	0.41	0.39	0.38		
	Sum	2.88	2.49	2.56	2.54	2.66	2.5	2.58	2.65	2.48	2.41	2.62	2.25	2.40



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