

Pune District Education Association's
Seth Govind Raghunath Sable College
of Pharmacy, Saswad

Programme Outcomes
and
Course Outcomes Attainment

**PUNE DISTRICT EDUCATION ASSOCIATION'S
SETH GOVIND RAGHUNATH SABLE COLLEGE OF PHARMACY
SASWAD, DIST-PUNE**



Direct attainment of POs and PSOs for the academic year 2020-2021

Sr. No.	Assessment Tools	Weightage
B. Pharm.		
1	CO attainment of all theory and practical courses Internal examination: 1) Continuous assessment (40%) and 2) Sessional examination (60%)	25%
2	CO attainment of all theory and practical courses End semester examination	75%
M. Pharm. (Sem.-I/II)		
3	CO attainment of all theory and practical courses Internal examination: 1) Continuous assessment (40%) and 2) Sessional examination (60%)	25%
4	CO attainment of all theory and practical courses End semester examination	75%
M. Pharm. (Sem.-III/IV)		
5	Journal club	5%
6	Presentation	14%
7	Research work	81%

Attainment Calculations of course outcomes

Calculations for attainment level:

To define target level:

Sr. No.	Criteria for target level	Attainment Level	Target
1	25% students scored >65% marks (25/100x3)	3	0.75
2	65% students scored 55-65% marks (65/100x2)	2	1.3
3	10% students scored <55% marks (10/100x1)	1	0.1
			2.15

Result analysis:

Sr. No.	Criteria for target level	No. of students	
		Internal Exam.	University Exam.
1	25% students scored >65% marks (25/100x3)	A	a
2	65% students scored 55-65% marks (65/100x2)	B	b
3	10% students scored <55% marks (10/100x1)	C	c
Total students		A + B + C = D	a + b + c = e

Calculation for attainment:

Internal Examination

Sr. No.	Attainment	
	Internal Examination	University Examination
1	$A / D \times 3 = X$	$a / e \times 3 = x$
2	$B / D \times 2 = Y$	$b / e \times 2 = y$
3	$C / D \times 1 = Z$	$c / e \times 1 = z$
Attainment	$X + Y + Z = K$	$x + y + z = k$
% attainment	$K / 2.15 \times 100 = M \%$	$k / 2.15 \times 100 = m\%$
Final attainment	$25/100 \times K + 75/100 \times k = \text{Final CO attainment}$	

Direct PO and PSOs attainment calculations

Formula for calculating POs and PSOs attainment:

The PO/PSO attainment is calculated by using the predefined CO/PO; CO/PSO matrix and Final CO attainment of the course.

The PO/PSO attainment values are calculated using the following formula

$$\text{PO /PSO attainment} = \text{PO/PSO score} / 3 \times \text{Final CO attainment of the course}$$

Table of POs and PSOs attainment for B. Pharm. (2020-2021)

Course code	Program Outcome											Program Specific Outcome				
	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5
BP101T	3	-	-	2	-	2	-	3	3	-	3	3	2	2	1	3
BP102T	2.09	2.09	1.39	1.39	0.69	1.39	1.39	0.69	0.69	0.69	0.69	2.92	2.68	1.70	1.95	0.97
BP103T	2.91	1	2.52	2.23	2.42	1.94	-	-	-	-	2.18	2.91	1.94	1.94	1.26	2.91
BP104T	2.99	-	2.99	-	-	-	-	-	-	-	1.99	2.99	2.99	1.99	2.19	0.99
BP105T	1.6	-	1.06	1.06	-	-	-	1.6	1.6	1.06	1.06	1.6	1.6	1.06	0.53	0.53
BP106RBT	2.7	1.8	-	0.9	-	-	-	1.53	1.8	-	2.39	2.7	0.9	-	0.9	0.9
BP106RMT	1.6	-	0.53	1.06	-	-	-	1.06	1.6	1.06	-	1.6	1.6	1.06	1.06	0.53
BP107P	2.99	1.7	1.59	0.3	-	1.59	-	2.99	2.99	-	2.99	2.99	1.99	1.99	2.99	2.99
BP108P	2.80	-	1.33	2.33	-	-	0.98	-	-	-	2.33	2.97	2.97	0.98	2.97	1.98
BP109P	2.75	0.98	0.98	0.98	-	-	-	-	-	-	0.98	2.75	2.75	1.96	2.75	2.75
BP110P	2.80	1.33	1.33	-	1.4	-	-	2.80	1.33	-	2.33	3	3	2	1.4	1
BP111P	1.6	-	0.53	1.06	-	-	-	1.6	1.06	1.06	1.06	1.6	1.06	1.06	1.06	0.53
BP112RBP	2.7	1.8	1.8	0.9	-	-	0.9	-	-	-	-	2.7	1.8	1.8	1.8	1.8
BP201T	3	-	-	2	-	2	-	3	3	-	3	3	2	2	1	3
BP202T	2.99	-	2.59	1.99	-	-	-	-	-	-	2.24	2.99	2.99	1.99	2.19	0.99
BP203T	2.84	-	1.89	1.89	-	-	-	-	-	-	1.89	2.84	2.84	1.57	1.57	0.94
BP204T	2.58	-	-	1.72	-	1.72	-	2.58	2.58	1.72	1.72	2.58	2.58	2.58	0.85	2.58
BP205T	1.6	-	1.06	1.06	-	-	-	1.06	1.6	1.06	1.06	1.6	1.6	1.06	1.6	0.53
BP206T	2.91	1	2.52	2.23	2.42	1.94	-	1.94	1.94	2.91	2.18	2.91	1	2.52	2.23	2.42
BP207P	3	1.2	1.6	0.4	-	1.6	-	3	3	-	3	3	2	2	3	3
BP208P	2.80	1.33	1.33	-	1.4	-	-	2.80	1.33	-	2.33	2.80	2.80	1.33	1.31	0.93
BP209P	2.96	1.96	1.96	-	1.43	-	-	2.96	1.96	-	2.29	2.96	2.96	1.43	1.96	0.98
BP210P	1.6	-	0.53	1.06	-	-	-	1.6	1.06	1.6	1.06	1.6	1.06	1.6	1.06	0.53
BP301T	2.83	-	2.45	1.87	-	-	-	-	-	-	2.17	2.83	2.83	1.7	1.7	0.94
BP302T	2.16	-	-	-	0.72	-	1.44	-	1.44	2.16	0.72	2.16	2.16	0.72	1.44	0.72

BP303T	2.46	-	1.64	-	-	-	-	-	-	-	1.64	2.46	1.64	1.5	0.82	0.82
BP304T	2.91	1	2.52	2.23	2.42	1.94	-	-	-	-	2.18	2.91	1.94	1.94	1.26	2.91
BP305P	2.94	1.96	1.96	-	1.47	-	-	2.94	1.96	-	2.21	2.94	2.94	1.47	1.96	0.98
BP306P	2.35	2.35		2.35	-	-	1.5 6	2.35	1.56	-	-	2.35	2.35	0.78	1.56	0.78
BP307P	2.6	-	1.72	-	-	-	-	-	-	-	1.72	2.6	1.74	1.65	0.72	0.72
BP308P	2.75	0.98	0.98	0.98	-	-	-	-	-	-	0.98	2.75	2.75	1.96	2.75	2.75
BP401T	2.92	-	2.43	2.43	-	-	-	-	0.97	-	1.95	2.92	2.68	1.70	1.95	0.97
BP402T	2.88	-	2.49	1.92	-	-	-	-	-	-	2.16	2.88	2.88	1.92	2.19	0.95
BP403T	2.16	-	-	-	0.72	-	1.4 4	-	1.44	2.16	0.72	2.16	2.16	0.72	1.44	0.72
BP404T	2.91	-	-	1.94	-	1.94	-	2.91	2.91	1.45	1.45	2.91	1.94	1.94	1.94	2.91
BP405T	2.25	-	1.50	-	-	-	-	-	-	-	1.50	2.25	1.50	1.37	0.74	0.74
BP406P	2.75	1.83	1.83	-	1.37	-	-	2.75	1.83	-	2.29	2.75	2.75	1.83	1.32	0.91
BP407P	2.16	-	-	2.16	-	-	1.4 4	2.16	1.44	-	-	2.16	2.16	0.72	1.44	0.72
BP408P	3	-	-	2	-	2	-	3	3	1.45	1.45	3	0.99	2	0.99	3
BP409P	2.25	-	1.50	-	-	-	-	-	-	-	1.50	2.25	1.50	1.37	0.74	0.74
BP501T	2.82	-	1.87	1.87	-	-	-	-	-	-	1.87	2.82	2.81 5	1.64	0.93	0.93
BP502T	2.73	2.73	0.91	-	1.82	-	2.7 3	-	1.82	2.73	2.73	2.73	2.73	0.91	2.73	0.82
BP503T	2.55	-	-	0.84	-	1.70	-	1.70	1.70	-	1.70	3	2	2	0.99	3
BP504T	2.47	-	1.64	-	-	-	-	-	-	-	1.64	2.47	1.64	1.64	0.82	0.82
BP505T	2.90	2.41	-	-	3	2.65	3	1.93	3	-	1.93	2.65	0.96	1.45	2.17	2.41
BP506P	2.73	2.73	0.91	-	1.82	-	2.7 3	-	1.82	2.73	2.73	2.73	2.73	0.91	2.73	0.82
BP507P	2.88	0.94	0.94	2.88	0.94	1.88	2.8 8	-	1.88	1.88	1.88	2.99	1.99	1.99	2.99	2.99
BP508P	2.47	-	1.64	-	-	-	-	-	-	-	1.64	2.47	1.64	1.64	0.82	0.82
BP601T	2.83	-	1.88	1.88	-	-	-	-	-	-	1.88	2.83	2.83	1.65	1.88	0.94
BP602T	2.76	-	-	0.91	-	1.84	-	-	1.84	-	1.84	2.76	1.84	1.84	0.91	2.76
BP603T	2.47	-	1.64	1.23	-	-	-	-	1.64	1.64	2.47	2.47	1.23	1.64	1.23	1.23
BP604T	2.44	-	2.16	1.62	-	-	-	-	-	-	1.87	2.44	2.44	1.47	1.47	0.81
BP605T	2.87	1.53	0.95	0.95	-	1.43	-	0.95	-	-	0.95	2.87	1.43	0.95	1.76	1.63
BP606T	2.85	-	-	-	0.95	-	1.9 0	-	1.90	2.85	0.95	2.85	2.85	0.95	1.90	0.95
BP607P	2.97	-	1.98	1.98	-	-	-	-	-	-	1.98	2.97	2.97	1.98	1.98	0.98
BP608P																
	3	0.99	0.99	2	0.99	2	3	2	0.11	2	2	3	2	2	3	3
BP609P	2.47	1.64	1.64	1.64	1.64	2.47	1.6 4	1.64	1.64	1.64	2.47	2.47	1.64	1.64	1.64	1.64
4.7.1 T	2.46	-	1.64	-	-	-	-	-	-	-	1.64	2.46	1.64	1.5	0.82	0.82
4.7.2 T	2.26	-	0.75	1.5	-	-	-	-	-	1.5	0.75	2.26	2.26	2.26	2.26	2.26
4.7.3 T	2.75	-	1.14	2.29	-	-	-	2.29	1.37	-	2.06	2.53	1.15	1.15	1.6	1.83
4.7.4 T	2.84	-	1.89	0.95	-	2.84	-	-	2.84	-	2.84	2.84	1.89	1.89	0.94	0.94
4.7.5 T	2.5	-	1.66	-	-	-	-	-	-	-	1.66	2.5	1.66	1.52	0.83	0.83
4.7.6 T	2.44	-	2.16	1.62	-	-	-	-	-	-	1.87	2.44	2.44	1.47	1.47	0.81

4.7.7 T	2.15	-	1.44	1.44	-	-	1.4 4	-	-	-	1.44	2.15	1.44	1.44	1.44	0.72
4.7.1 P	2.35	-	1.56		1.56	-	-	-	1.56	2.35	0.78	2.35	1.56	1.56	1.56	0.78
4.7.2 P	2.44	1.62	1.62	2.44	1.62	-	-	-	-	1.62	0.81	2.44	2.44	2.44	2.44	2.44
4.7.3 P	2.73	2.12	2.04	1.82	1.82	-	-	2.42	1.82	1.82	2.04	2.28	1.6	1.09	1.6	1.6
4.7.4 P	2.78	2.78	1.85	2.13	-	2.13	2.1 3	2.78	0.93	-	1.85	2.78	1.85	1.85	0.92	0.92
4.7.5 P	2.45	-	-	1.61	-	1.61	-	2.45	2.45	-	1.61	2.45	1.61	1.61	0.81	0.81
4.8.1 T	2.36	-	2.04	1.57	-	-	-	-	-	-	1.8	2.36	2.36	1.41	1.41	0.78
4.8.2 T	2.5	-		1.6	-	-	-	-	-	-	1.66	2.5	1.66	1.52	0.83	0.83
4.8.3 T	2.3	-	0.76	1.53	-	-	-	-	-	-	0.76	2.3	2.3	2.3	2.3	2.3
4.8.4 T	2.91	-	1.21	2.43	-	-	-	2.43	1.46	-	2.18	2.75	1.25	1.25	1.75	2
4.8.5 T	2.89	1.2	1.35	0.96	0.96	1.35	1.1 6	1.35	1.16	-	2.89	2.89	1.92	1.92	0.96	0.96
4.8.6 T	2.46	-	1.64	1.64	-	-	-	-	1.64	1.64	1.64	2.45	1.61	1.61	0.81	0.81
4.8.7 T	2.15	-	-	-	0.72	-	1.4 4	-	1.44	2.15	0.72	2.15	2.15	0.72	1.44	0.72
4.8.1 P	2.72	-	1.81	1.81	-	-	-	-	-	-	1.81	2.72	2.72	1.51	1.51	0.82
4.8.2 P	2.15	1.44	-	1.44	-	-	-	-	-	2.15	0.72	2.15	1.44	1.44	0.72	1.44
4.8.3 P	2.59	1.72	1.72	2.59	1.72	-	-	-	-	1.72	0.86	2.59	2.59	2.59	2.59	2.59
4.8.4 P	2.67	2.07	2	1.34	1.78	-	-	2	1.78	1.78	2.23	2.4	2	1.5	1.8	1.8
4.8.5 P	2.26	1.51	0.75	-	-	0.75	0.7 5	0.75	0.75	-	0.75	2.26	1.5	1.5	0.75	0.75
POs/PSOs attainment	2.59	1.67	1.60	1.64	1.51	1.86	1.7 9	2.14	1.78	1.81	1.77	2.59	2.06	1.60	1.58	1.43

Table of POs and PSOs attainment for M. Pharm. (2020-2021)

Course code	Program Outcome											Program Specific Outcome				
	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5
Department: Pharmaceutics																
MPAT101T	1.41	0.780	1.2502	1.41	0.780	0.6251	0.6251	0.780	0.94	-	1.09	1.2502	0.6251	0.47	0.7802	0.94
MPH102T	2.16		-	2.16	-	-	-	-	-	2.16	0.71	2.16	1.42	1.42	0.77	1.42
MPH103T	2.85	-	-	2.85	-	-	-	-	-	2.85	0.95	2.85	1.90	1.90	1.14	1.90
MPH104T	2.15	-	-	-	-	-	1.44	-	-	1.44	-	1.44	2.15	0.72	2.15	2.15
MPH105P	2.85	-	2.85	2.85	-	-	2.52	-	-	-	-	2.05	1.36	1.36	1.36	1.36
MPH201T	2.15	-	-	-	-	2.15	-	-	-	1.44	-	0.72	2.15	0.72	2.15	2.15
MPH202T	2.15			1.44	-	-	0.72		0.72	1.44	2.15	2.15	1.44	1.44	1.44	0.72
MPH203T	2.87	-	-	-	1.91	-	1.91	-	1.91	2.87	0.25	2.87	2.87	0.95	1.91	0.95
MPH204T	2.15			2.15	-	-	0.72	-	-	2.15	0.72	2.15	2.15	0.72	1.44	0.72
MPH205P	2.85	-	2.28	2.85	-	-	2.52	-	-	-	-	2.05	1.36	1.36	1.36	1.36
MRM301T	2.9	2.9	2.22	-	1.35	-	2.9	-	0.96	-	1.54	2.9	2.9	0.96	3.9	1.93
Sem.III/IV	2.21	2.21	2.21	2.21	0.73	1.46	2.21	2.21	1.46	-	2.21	2.21	2.21	2.21	2.21	2.21
POs/PSOs attainment	2.39	1.96	2.16	2.24	1.19	1.41	1.73	1.50	1.20	2.05	1.20	2.07	1.88	1.19	1.72	1.48
Department: Pharmaceutical Chemistry																
MPAT101T	1.41	0.780	1.2502	1.41	0.780	0.6251	0.6251	0.780	0.94	-	1.09	1.2502	0.6251	0.47	0.7802	0.94
MPC102T	3	-	2.8	1.4	-	-	1.25	-	-	-	2	3	3	1	3	2
MPC103T	3	3	2	2	1	2	2	2	2	2	2	3	3	3	3	3
MPC104T	3	1.6	2.4	2.4	1	1.2	1	1.8	2	1	1.6	2.8	1.6	1	1.8	2
MPC105P	3	3	2	2	1	2	2	2	2	2	2	3	3	3	3	3
MPC201T	2	1	1.77	1.33	-	-	-	1.33	-	-	2	1.106	1.33	1.106	0.886	0.886
MPC202T	3	-	1	2	-	-	-	-	-	2	1	3	3	3	3	3
MPC203T	3	2	1	2	1	1	2	1	1	2	1	3	2	1	2	1
MPC204T	3	2	1	2	1	1	2	1	1	-	1	3	2	1	2	1
MPC205P	3	3	2	2	1	2	2	2	2	2	2	3	3	3	3	3
MRM301T	3	3	2.3	-	1.4	-	3	-	1	-	1.6	3	3	0.99	3	2
Sem.III/IV	2	2	2	2	0.66	1.33	2	2	1.3	-	2	2	2	2	2	2
POs/PSOs attainment	2.70	2.14	1.79	1.87	0.98	1.39	1.79	1.55	1.47	1.83	1.61	2.60	2.30	1.71	2.29	1.99

Department: Pharmacology

MPAT101T	1.41	0.780	1.2502	1.41	0.780	0.6251	0.6251	0.780	0.94	-	1.09	1.2502	0.6251	0.4702	0.7802	0.94
MPL102T	2.7	2.7	-	1.80	-	2.07	-	1.80	1.16	1.16	2.07	2.7	0.89	1.80	0.89	2.7
MPL103T	2.7	2.7	1.80	1.80	-	1.80	1.80	2.7	1.80	1.80	2.7	2.7	2.7	1.80	1.80	2.7
MPL104T	3	2	3	1.25	-	2.5	-	-	1.25	1	2.75	3	1	2	2	3
MPL105P	3	3	2	3	-	-	-	-	1	1.5	2	3	1.6	2	2	3
MPL201T	2.87	2.87	-	1.91	-	2.20	-	1.91	1.24	1.24	1.53	2.87	1.91	1.91	1.91	2.87
MPL202T	3	2.6	-	2	-	3	-	-	-	-	3	3	1.66	1	3	3
MPL203T	3	1.5	-	2	-	2.8	-	-	-	-	3	3	3	2	3	3
MPL204T	3	3	-	2	-	3	-	-	-	-	3	3	2	3	3	3
MPL205P	2.96	1.97	1.97	1.97	-		0.98	1.97			2.96	2.96	2.96	1.97	1.97	2.96
MRM 301T	3	3	2.3	-	1.4	-	3	-	1	-	1.6	3	3	0.99	3	2
Sem.III/IV	2.2	2.2	2.2	2.2	0.73	1.46	2.2	2.2	1.46	-	-	2.2	2.2	2.2	2.2	2.2
PO/PSO attainment	2.74	2.36	2.07	1.94	0.97	2.16	1.72	1.89	1.23	1.34	2.34	2.72	1.96	1.76	2.13	2.61

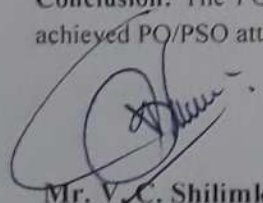
PO/PSO Achievement Matrix for B. Pharm. (2020-2021)

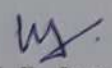
POs/PSOs	Program Outcome											Program Specific Outcome				
	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5
Attainment (100%)	2.99	1.89	1.97	1.92	1.65	2.00	2.08	2.51	2.16	2.22	2.04	2.97	2.32	1.85	1.82	1.67
Set target value (65%)	1.94	1.22	1.28	1.25	1.07	1.3	1.35	1.63	1.44	1.44	1.33	1.93	1.51	1.2	1.18	1.09
Achieved attainment	2.59	1.67	1.60	1.64	1.51	1.86	1.79	2.14	1.78	1.81	1.77	2.59	2.06	1.60	1.58	1.43

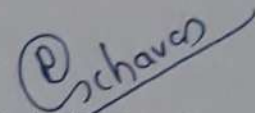
PO/PSO Achievement Matrix for M. Pharm. (2020-2021)

POs/PSOs	Program Outcome											Program Specific Outcome				
	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5
Pharmaceutics																
Attainment (100%)	3	2.2 7	2.3 9	2.52	1.67	1.6 5	2.1 3	1.92	1.6 0	2.43	1.58	2.60	2.43	1.49	2.16	1.99
Set target value (65%)	1.9 5	1.4 8	1.5 5	1.63	1.08	1.0 6	1.3 8	1.27	1.0 4	1.58	1.02	1.69	1.58	0.97	1.4	1.29
Achieved attainment	2.3 9	1.9 6	2.1 6	2.24	1.19	1.4 1	1.7 3	1.50	1.2 0	2.05	1.20	2.07	1.88	1.19	1.72	1.48
Pharmaceutical Chemistry																
Attainment (100%)	3	2.3 8	2.0 7	2.16	1.12	1.5 7	1.9 6	1.83	1.6 7	1.80	1.88	2.84	2.49	1.89	2.48	2.19
Set target value (65%)	1.9 5	1.5 5	1.3 5	1.4	0.72	1.0 2	1.2 7	1.19	1.0 9	1.17	1.22	1.85	1.62	1.23	1.61	1.42
Achieved attainment	2.7 0	2.1 4	1.7 9	1.87	0.98	1.3 9	1.7 9	1.55	1.4 7	1.83	1.61	2.60	2.30	1.71	2.29	1.99
Pharmacology																
Attainment (100%)	3	2.5 6	2.4 2	2.20	1.35	2.3 6	2.0 7	2.28	1.4 8	1.42	2.55	2.97	2.13	1.92	2.31	2.83
Set target value (65%)	1.9 5	1.6 6	1.5 7	1.43	0.88	1.5 3	1.3 5	1.48	0.9 6	0.92	1.66	1.93	1.38	1.25	1.5	1.84
Achieved attainment	2.7 4	2.3 6	2.0 7	1.94	0.97	2.1 6	1.7 2	1.89	1.2 3	1.34	2.34	2.72	1.96	1.76	2.13	2.61

Conclusion: The POs/PSOs attainment for both B. Pharm. and M. Pharm. programmes are fully achieved as the achieved PO/PSO attainment values are greater than the set target values.


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