



Shri Gajanan Maharaj Shikshan Prasarak Mandal's
SHARADCHANDRA PAWAR COLLEGE OF PHARMACY
DUMBARWADI. (OTUR), TAL : JUNNAR, DIST : PUNE. 410504.

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2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Attainment of Course Outcomes

As per the curriculum prescribed by Savitribai Phule Pune University, Pune, weightage of end semester exam marks and internal exam marks were considered, and it was decided to calculate the CO attainments as 75% weightage to the University term end examination and 25% weightage to the Internal Examination. **(For curriculum 2018/19 Pattern)**

$$75\% \text{ of } 3 + 25\% \text{ of } 3 = 2.25 + 0.75 = 3$$

As the University does not provide average or median marks, we have set 55% percentage marks as the target level for theory courses and practical courses.

1. If 60% of students have obtained marks above target then the level is considered as low level 1.
2. If 70% of students have obtained marks above target then the level is considered as medium level 2.
3. If 80% of students have obtained marks above target then the level is considered as high level 3.

Attainment of Program Outcomes

PO attainment level will be based on attainment levels of direct assessment and indirect assessment.

It is assumed that while deciding on the overall attainment level, 80% weightage may be given to direct assessment and 20% weightage to indirect assessment through surveys from students(largely),





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Direct Attainment Tools

1. First continuous assessment tools (Quiz/open book/ assignment/ library notes/ extension work/ class test etc.)
2. Second continues assessment tool (multiple choice/ objective type question paper)
3. Sessional/ Periodic exam
4. End semester exam

Indirect Attainment Tools

1. Graduate Exit Survey
2. Professional Social Activity
3. Guest Lecture
4. Students Projects
5. Co-curricular Activity
6. Extra-curricular Activity
7. Hands on Training
8. Industrial Visit
9. Student Council





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CO- Attainment for Batch 2021-22

Course	Code	Exam	Target	CO	Attainment Level
Human Anatomy & Physiology-I	BP101T & BP 107P	Internal	55	3	3
		University	55	3	
Pharmaceutical Analysis I	BP102T & BP 108P	Internal	55	3	1.5
		University	55	1	
Pharmaceutics I	BP103T & BP 109P	Internal	55	3	3
		University	55	3	
Pharmaceutical Inorganic Chemistry	BP104T & BP 110P	Internal	55	3	3
		University	55	3	
Communication Skills	BP105T & BP 111P	Internal	55	3	3
		University	55	3	
Human Anatomy & Physiology-II	BP201T & BP 207P	Internal	55	3	3
		University	55	3	
Pharmaceutical Organic Chemistry I	BP202T & BP 208P	Internal	55	3	1.5
		University	55	1.5	
Biochemistry	BP203T & BP 209P	Internal	55	3	3
		University	55	3	
Pathophysiology	BP204T	Internal	55	3	1.5
		University	55	1	
Environmental Sciences	BP206T	Internal	55	3	3
		University	55	3	
P'cal Organic Chemistry-II	BP301T & BP305 P	Internal	55	3	3
		University	55	3	
Physical Pharmaceutics-I	BP302T & BP306 P	Internal	55	3	3
		University	55	3	
Pharmaceutical Microbiology	BP303T & BP307 P	Internal	55	3	3
		University	55	3	

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Pharmaceutical Engineering	BP304T & BP308P	Internal	55	3	3
		University	55	3	
Physical Organic Chemistry-III	BP401T	Internal	55	3	3
		University	55	3	
Medicinal Chemistry- I	BP402T & BP406 P	Internal	55	3	1.5
		University	55	1	
Physical Pharmaceutics -II	BP403T & 407P	Internal	55	3	3
		University	55	3	
Pharmacology- I	BP404T & 408P	Internal	55	3	2.25
		University	55	2	
Pharmacognosy & Phytochemistry- I	BP405T & 409P	Internal	55	3	2.25
		University	55	2	
Medicinal Chemistry-II	BP 501T	Internal	55	3	3
		University	55	3	
Industrial Pharmacy-I	BP502T & 506P	Internal	55	3	3
		University	55	3	
Pharmacology II	BP 503T & 507P	Internal	55	3	3
		University	55	3	
Pharmacog & Phyto-II	BP504 & 508P	Internal	55	3	3
		University	55	3	
Pharmaceutical Jurisprudence	BP505T	Internal	55	3	3
		University	55	3	
Medicinal Chemistry-III	BP601T & 607P	Internal	55	3	3
		University	55	3	
Pharmacology III	BP 602T & 608P	Internal	55	3	3
		University	55	3	
Herbal Drug Technology	BP 603T & 609P	Internal	55	3	3
		University	55	3	

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Biopharmaceutics & Pharmacokinetics	BP604T	Internal	55	3	1.5
		University	55	2	
Pharmaceutical Biotechnology	BP605T	Internal	55	3	2.25
		University	55	2	
Quality Assurance	BP606T	Internal	55	3	1.5
		University	55	1	
Instrumental Methods of Analysis	BP701T & BP705P	Internal	55	3	3
		University	55	3	
Industrial Pharmacy-II	BP702T	Internal	55	3	3
		University	55	3	
Pharmacy Practice	BP703T	Internal	55	3	3
		University	55	3	
Novel Drug Delivery Systems	BP704T	Internal	55	3	3
		University	55	3	
Biostatistics & research Methodology	BP801T	Internal	55	3	3
		University	55	3	
Social & preventive Pharmacy	BP802T	Internal	55	3	3
		University	55	3	
Pharmacovigilance	BP805T	Internal	55	3	3
		University	55	3	
QC & Standardization of herbals	BP806T	Internal	55	3	3
		University	55	3	
Cosmetic Science	BP809T	Internal	55	3	2.25
		University	55	2	
Experimental Pharmacology	BP810T	Internal	55	3	3
		University	55	3	
Advanced instrumentation Techniques	BP811T	Internal	55	3	3
		University	55	3	

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CO-PO matrices of courses

CO-PO matrices of courses (four matrices to be mentioned; one per semester from 1st to 8th semester; at least one per year)

Academic year-21-21



Pharmaceutics I (C BP103T & BP109 P)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	C103.1	3	3	3	2	1	2	-	1	3	-	3
	C103.2	3	2	2	-	-	1	-	-	3	-	3
	C103.3	2	1	2	2	-	-	-	-	1	-	1
	C103.4	3	1	1	1	-	-	-	-	1	-	2
C103	2.75	1.75	2	1.66	1	1.5	-	1	2	-	2.25	

Human Anatomy & Physiology II (C BP201T & BP207 P)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	C201.1	3	-	3	2	2	3	3	3	3	3	3
	C201.2	3	-	3	3	2	3	3	3	3	3	3
	C201.3	3	-	3	3	2	3	2	3	3	3	3
	C201.4	1	-	1	1	1	1	-	1	-	-	1
C201	2.5	-	2.5	2.5	1.75	2.5	2.6	2.5	2.5	3	2.5	

Pharmaceutical Organic Chemistry-II (CBP301T & BP 305 P)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	C301.1	3	PO1	PO1	PO1	-	-	-	-	PO1	PO1	PO1
	C301.2	3	3	3	3	-	-	-	-	3	3	3
	C301.3	3	3	3	3	-	-	-	-	3	3	3
	C301.4	3	3	3	3	-	-	-	-	3	3	3
C301	3	3	3	3	-	-	-	-	3	3	3	

Pharmacology-I (C BP404T & BP408P)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	C404.1	3	1	3	2	2	3	1	3	3	3	3
	C404.2	3	-	3	2	-	3	2	3	3	3	3
	C404.3	3	-	3	2	1	3	3	3	3	3	3
	C404.4	1	-	-	-	1	1	1	1	1	1	1
C404	2.5	1	2.5	2	1.33	2.5	1.75	2.5	2.5	2.5	2.5	

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Industrial Pharmacy (BP502T & 506P)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	C502.1	2	2	2	2	2	-	2	-	-	-	2
	C502.2	2	2	1	1	-	1	1	1	-	-	2
	C502.3	3	3	3	3	-	3	3	-	2	-	3
	C502.4	2	1	1	1	-	-	2	-	-	-	2
	C502	2.25	2	1.75	1.75	2	2	2	1	2	-	2.25

Quality Assurance (BP606T)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	C606.1	3	3	2	3	-	-	3	-	-	-	3
	C606.2	3	3	3	3	-	1	3	-	-	-	3
	C606.3	3	2	2	1	-	-	2	-	-	-	3
	C606.4	3	3	3	3	-	-	3	-	-	-	3
	C606	3	2.75	2.5	2.5	-	1	2.75	-	-	-	3

Instrumental Methods of Analysis (BP701T)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	C701.1	3	-	3	3	-	3	-	-	3	-	3
	C701.2	3	1	3	3	-	3	-	-	3	-	3
	C701.3	3	3	3	3	-	3	-	-	3	-	3
	C701.4	3	2	3	3	-	2	-	-	1	-	1
	C701	3	2	3	3	-	2.5	-	-	2.5	-	2.4

Biostatistics & research Methodology (BP801T)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	C801.1	3	-	1	2	-	-	3	-	-	2	3
	C801.2	3	-	3	3	-	-	3	-	-	3	3
	C801.3	3	-	2	3	-	-	3	-	-	3	3
	C801.4	3	-	1	3	-	-	3	-	-	3	3
	C801	3	-	1.75	2.75	-	-	3	-	-	2.75	3



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2.6.2 Course-PO matrix of courses for all four years of study (2021-2022)

Course	CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
		A	B	C	D	E	F	G	H	I	J	K
Human Anatomy & Physiology-I	BP101 T & BP107 P	2.5	-	-	-	-	-	-	1	2		1.75
Pharmaceutical Analysis-I	BP102 T & BP108 P	3	3	3	1	-	2	-	1	2	-	2.5
Pharmaceutics-I	BP103 T & BP109 P	2.75	1.75	2	1.66	1	1.5	-	1	2	-	2.25
P'cal Inorganic Chemistry	BP104 T & BP110 P	3	3	3	3	-	-	-	-	3	3	3
Communication Skills	BP105 T & BP111 P	-	3	3	3	-	3	3	3	3	3	3
Human Anatomy & Physiology-II	BP201 T & BP207 P	2.5	-	2.5	2.5	1.75	2.5	2.6	2.5	2.5	3.	2.5
P'cal Organic Chemistry	BP202 T & BP208 P	3	3	3	3	-	-	-	-	3	3	3
Biochemistry	BP203 T & BP209 P	3	1	1.25	1	-	-	-	-	-	-	3
Pathophysiology	BP204 T	3	-	3						3	3	3
Environmental	BP206	1.5	2	2	-	2	-	-	2	1.5	1	1

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Sciences	T												
P'cal Organic Chemistry-II	BP301 T & BP305 P	3	3	3	3	-	-	-	-	3	3	3	
Physical Pharmaceutics-I	BP302 T & BP306 P	3	-	3	1	-	1	3	-	-	-	1	
Pharmaceutical Microbiology	BP303 T & BP307 P	3	1.75	2.25	1	-	-	-	-	1.5	-	2	
Pharmaceutical Engineering	BP304 T & BP308 P	2.5	1.5	-	1	-	-	-	-	-	-	2.25	
P'cal Organic Chemistry-III	BP401 T	3	3	3	3	-	-	-	-	3	3	3	
Medicinal Chemistry-I	BP402 T & BP406 P	2.5	1.75	1.5	1.25	-	-	-	-	-	-	-	
Physical Pharmaceutics-II	BP403 T & BP407 P	3	-	3	1	-	1	2.66	-	-	-	2	
Pharmacology-I	BP404 T & BP408 P	2.5	1	2.5	2	1.33	2.5	1.75	2.5	2.5	2.5	2.5	
Pharmacognosy & Phytochemistry-I	BP405 T & BP409 P	2	1.25	2	1.5	-	2.33	2	1.75	1.75	1.75	2	

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Medicinal Chemistry-II	BP 501T	1.75	2.5	2.25	2.5	-	-	-	-	-	-	-
Industrial Pharmacy-I	BP502 T & 506P	2.25	2	1.75	1.75	2	2	2	1	2	-	2.25
Pharmacology II	BP 503T & 507P	3	-	1.5	-	-	2.5	2.7	-	2.5	1.4	3
Pharmacog & Phyto-II	BP504 & 508P	3	1	1	1.5	-	3	3	2.5	3	3	3
Pharmaceutical Jurisprudence	BP505 T	3	-	1	-	-	2.25	2.5	-	1.33	-	1
Medicinal Chemistry-III	BP601 T & 607P	2	2.75	2.75	2.5	-	-	-	-	-	-	-
Pharmacology III	BP 602T & 608P	2.7	2	2.7	2	-	2.7	2.7	-	2.7	-	2.7
Herbal Drug Technology	BP 603T & 609P	2.66	2.66	2.66	2.66	-	2	-	-	1.66	2	2.66
Biopharmaceutics & Pharmacokinetics	BP604 T	2.75	-	1.66	2.25	-	-	2.75	-	-	2.25	2.75
Pharmaceutical Biotechnology	BP605 T	3	2.75	2.75	2.5	-	-	-	-	3	-	3
Quality Assurance	BP606 T	3	2.75	2.5	2.5	-	1	2.75	-	-	-	3
Instrumental Methods of Analysis	BP701 T & BP705 P	3	2	3	3	-	2.5	-	-	2.5	-	2.4
Industrial Pharmacy-II	BP702 T	3	3	3	3	3	3	3	3	3	3	3
Pharmacy Practice	BP703 T	2.7	2	2.7	2	-	2.7	2.7	-	2.7	-	2.7


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Novel Drug Delivery Systems	BP704 T	2.66	-	1.5	2	-	-	2.66	-	-	1.66	2.33
Biostatistics & research Methodology	BP801 T	3	-	1.75	2.75	-	-	3	-	-	2.75	3
Social & preventive Pharmacy	BP802 T	3	3	3	3	-	3	-	3	3	3	3
Pharmacovigilance	BP805 T	2.7	2	2.7	2	-	2.7	2.7	-	2.7	-	2.7
QC & Standardization of herbals	BP806 T	3	2.75	2.5	2.5	-	1	2.75	-	-	-	3
Cosmetic Science	BP809 T	3	-	2.33	1.33	-	1	3	-	2	1.5	2.75
Experimental Pharmacology	BP810 T	2.7	2	2.7	2	-	2.7	2.7	-	2.7	-	2.7
Advanced instrumentation Techniques	BP811 T	3	2	3	3	-	2.5	-	-	2.5	-	2.4
Average Attainment		2.74	2.23	2.4	2.1	1.84	2.18	2.66	2.02	2.44	2.46	2.53
Direct Attainment (80%)		2.19	1.78	1.92	1.68	1.47	1.74	2.12	1.62	1.95	1.97	2.02
Indirect Attainment (20%)		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6
Total Attainment		2.79	2.38	2.52	2.28	2.07	2.34	2.72	2.21	2.55	2.57	2.62

Note: Correlation levels 1, 2 or 3, as defined below:

1: Slight (Low) (1/2) 2: Moderate (Medium)(3/4) 3: Substantial (High)(5/more)




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Indirect Attainment Mapping-2021-22

Surveys	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Graduate Exit Survey	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Professional Social Activity	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
Guest Lecture	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓
Student's Project	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Co-Curricular Activities	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Extra Curricular Activities		✓			✓			✓			
Hands on Training	✓	✓	✓	✓			✓	✓			✓
Industrial Visit	✓	✓	✓	✓	✓	✓	✓	✓			✓
Student Council	✓	✓	✓		✓			✓	✓		
Total Attainment	3	3	3	3	3	3	3	3	3	2	3
20% of Total Attainment	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6



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2.6.2 Attainment of Course Outcomes

Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based

(Examples of data collection processes may include, but are not limited to, specific exam/tutorial questions, assignments, laboratory tests, project evaluation, student portfolios (A portfolio is a collection of artifacts that demonstrate skills, personal characteristics, and accomplishments created by the student during study period), internally developed assessment exams, project presentations, oral exams, focus groups etc. It is expected that each theory subject taught should impart specific knowledge and make a foundation for a set of Basic Concepts related to it. Similarly the laboratory experiments should have some predetermined and predefined skills which can be developed during the study)

Assessment process for academic year 2021-22 is divided into two parts

a. Internal Assessment b. University Exam Assessment

- Twenty five percent (25%) weightage is given for internal assessment and seventy five percent (75%) weightage is given for University Assessment This is in accordance with the weightage given in university curriculum 2018 & 2019 Pattern).
- **Internal Assessment (2018 & 2019 Pattern curriculum)** The course outcomes are assessed by the performance of student in internal exam is divided into one continuous assessment exam and two sessional exam continuous assessment exam include one objective test and one class test / assignment/quiz/library notes/ open book test (For 2018 & 2019 Pattern curriculum).



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- **Semester end examination/university assessment:** It is important tool for assessment of course outcomes. This examination consists of descriptive type question and is conducted by university.
1. As the University does not provide average or median marks, we have set 55% percentage marks as the target level for theory courses and practical courses.
 2. If 60% of students have obtained marks above target then the level is considered as low level 1.
 3. If 70% of students have obtained marks above target then the level is considered as medium level 2.
 4. If 80% of students have obtained marks above target then the level is considered as high level 3.

Record the attainment of Course Outcomes of all courses with respect to set attainment levels

Program shall have set Course Outcome attainment levels for all courses.

(The attainment levels shall be set considering average performance levels in the University examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the course outcomes of a course in addition to the performance in the University examination)

Measuring Course Outcomes attained through University Examinations

Target may be stated in terms of percentage of students getting more than the University average marks or more as selected by the Program in the final examination. For cases where the University does not provide useful indicators like average or



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median marks etc., the Program may choose an attainment level on its own with justification.

Example related to attainment levels Vs. targets: (The examples indicated are for reference only. Program may appropriately define levels)

Attainment Level 1: 60% students scoring more than University average percentage marks or set attainment level in the final examination is considered to be attainment of "1"

Attainment Level 2: 70% students scoring more than University average percentage marks or set attainment level in the final examination is considered to be attainment of "2"

Attainment Level 3: 80% students scoring more than University average percentage marks or set attainment level in the final examination is considered to be attainment of "3"

- *Attainment is measured in terms of actual percentage of students getting set percentage of marks.*
- *If targets are achieved then all the course outcomes are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement.*
- *If targets are not achieved the Program should put in place an action plan to attain the target in subsequent years.*



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Measuring CO attainment through Internal Assessments:

(The examples indicated are for reference only. Program may appropriately define levels)

Target may be stated in terms of percentage of students getting more than class average marks or set by the Program in each of the associated COs in the assessment instruments (midterm tests, assignments, mini projects, reports and presentations etc. as mapped with the COs)

Example

Mid-term test 1 addresses C202.1 and C202.2. Out of the maximum 20 marks for this test 12 marks are associated with C202.1 and 8 marks are associated with C202.2.

Examples related to attainment levels Vs. targets:

Attainment Level 1: 60% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of "1"

Attainment Level 2: 70% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of "2"

Attainment Level 3: 80% students scoring more than 60% marks out of the relevant maximum marks is considered to be attainment of "3"

- *Attainment is measured in terms of actual percentage of students getting set percentage of marks.*
- *If targets are achieved then the C202.1 and C202.2 are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement.*



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- If targets are not achieved the Program should put in place an action plan to attain the target in subsequent years.

Similar targets and achievement are to be stated for the other midterm tests/internal assessment instruments

Course Outcome Attainment:

For example:

Attainment through University Examination: Substantial i.e. 3 Attainment through Internal Assessment: Moderate i.e. 2

Assuming 80% weightage to University examination and 20% weightage to Internal assessment, the attainment calculations will be (80% of University level) + (20% of Internal level) i.e. 80% of 3 + 20% of 2 = 2.4 + 0.4 = 2.8

Note: Weightage of 80% to University exams is only an example. Programs may decide weightage appropriately for University exams and internal assessment with due justification.

As per the curriculum prescribed by Savitribai Phule Pune University, Pune, weightage of end semester exam marks and internal exam marks were considered, and it was decided to calculate the CO attainments as 75% weightage to the University term end examination and 25% weightage to the Internal Examination. **(For curriculum 2018 & 2019 Pattern)**

$$75\% \text{ of } 3 + 25\% \text{ of } 3 = 2.25 + 0.75 = 3$$



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