

DUMBARWADI. (OTUR), TAL: JUNNAR, DIST: PUNE. 410504.

Code: SPCOP/ADM/FM/23	Department: Academic	Ac. Yr.: 2021-22
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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% of 3 + 25% 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.

- 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.
- 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
Human Anatomy &	BP101T &	вр	Internal	55	3	Level
Physiology-I	107P		University	55	3	3
Pharmaceutical Analysis	BP102T & 1	вР	Internal	55	3	
	108P		University	55	1	1.5
Pharmaceutics I	BP103T & E	3P	Internal	55	3	
	109P	Į	University	55	3	3
Pharmaceutical Inorganic Chemistry	and the second s		Internal	55	3	
Chemistry	BP 110P	L	<b>Jniversity</b>	55	3	3
Communication Skills	BP105T &		Internal	55	3	
	BP 111P	L	Iniversity	55	3	3
Human Anatomy &	BP201T &		Internal	55	3	CALLES AND THE PARTY OF THE PAR
Physiology-II	BP 207P	U	niversity	55	3	3
Pharmaceutical Organic	BP202T &		Internal	55	3	
Chemistry I	BP 208P	U	niversity	55	1.5	1.5
Biochemistry	BP203T &	I	nternal	55	3	2
	BP 209P	Ur	niversity	55	3	3
Pathophysiology	BP204T	L	nternal	55	3	THE RESERVE OF THE PARTY OF THE
umophysiology	BF 2041	Un	niversity	55	1	1.5
Environmental Sciences	DD204F	Ir	nternal	55	3	Contract Con
Livitoimientai Sciences	BP206T	Un	iversity	55	3	3
P'cal Organic Chemistry-II	BP301T &	In	ternal	55	3	The second second second second
<u> </u>	BP305 P	Uni	iversity	55	3	3
	BP302T &		ternal	55	3	
Physical Pharmaceutics-I	BP306 P	attions to the sta	versity	55	3	3
parmaceutical Microbiolo	BP303T &	Int	ernal	55	3	
armaceutical Microbiology	BP307 P	Univ	versity	55	3	3



# Shri Gajanan Maharaj Shikshan Prasarak Mandal's

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	CO A	tainment		All St	The second secon
Pharmaceutical Engineering	BP304T &			Page	rs: 01
gineering	BP308P	Internal University	55	3	3
P'cal O			55	3	
P'cal Organic Chemistry-III	BP401T	Internal	55	3	3
A STATE OF THE PARTY OF THE PAR	BP402T &	University	55	3	
Medicinal Chemistry- I	BP406 P	Internal	55	3	1.5
The second secon		University	55	1	1.3
Physical Pharmaceutics -II	BP403T &407P	Internal	55	3	
		University	55	3	3
Pharmacology- I	BP404T &408P	Internal	55	3	
		University	55	2	2.25
Pharmacognosy & Phytochemistry- I	BP405T &409P	Internal	55	3	
1 hytochemistry- 1	=1 1031 &4091	University	55	2	2.25
Medicinal Chemistry-II	BP 501T	Internal	55	3	
	DI 3011	University	55	3	3
Industrial Pharmacy-I	BP502T & 506P	Internal	- 55	3	
	21 3021 & 300P	University	55	3	3
Pharmacology II	BP 503T &	Internal	55	3	
	507P	University	55	3	3
Pharmacog & Phyto-II	BP504 & 508P	Internal	55	3	Helbrand St.
	31301 & 3081	University	55	3	3
harmaceutical Jurisprudence	BP505T	Internal	55	3	
	510051	University	55	3	3
Medicinal Chemistry-III	BP601T & 607P	Internal	55	3	
	51 0011 & 007F	University	55	3	3
Pharmacology III	BP 602T &	Internal	55	3	
	608P	University	55	3	3
Herbal Drug Technology	BP 603T &	Internal	55	3	
C	609P	University	55	3	3



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Name and Associated States of the Control of the Co		nent: Academic		A	c. Yr.: 2021-22
Biopharmaceutics &	CO	Attainment			l Staff
Pharmacokinetics &	ВР604Т	Internal	55	] Pe	iges: 01
The state of the s		University	55	2	1.5
Pharmaceutical Biotechnology	ВР605Т	Internal	55	3	and state to work the second of the second
The state of the s		University	55	2	2.25
Quality Assurance	ВР606Т	Internal	55	3	and the same property and the same and
Instrumental Methods of		University	55	1	1.5
Analysis	BP701T&	Internal	55	3	
The second secon	BP705P	University	55	3	3
Industrial Pharmacy-II	BP702T	Internal	55	3	
DI		University	55	3	3
Pharmacy Practice	BP703T	Internal	55	3	
The state of the s		University	55	3	3
Novel Drug Delivery Systems	BP704T	Internal	55	3	Control of the Contro
Biostatistics & research		University	55	3	3
Methodology	BP801T	Internal	55	3	The same of the sa
	21 0011	University	55	3	3
Social & preventive Pharmacy	BP802T	Internal	55	3	
	DI 0021	University	55	3	3
Pharmacovigilance	BP805T	Internal	55	3	
	D1 603 1	University	55	3	3
QC & Standardization of herbals	BP806T	Internal	55	3	
	DI 0001	University	55	3	3
Cosmetic Science	ВР809Т	Internal	55	3	WARREST THE STATE OF THE STATE
	DF 0091	University	55	2	2.25
Experimental Pharmacology	DDOINT	Internal	55	3	A This was a page of the same
That macology	BP810T	University	55	3	3
Advanced instrumentation	DDOLLE	Internal	55	3	Old Anna Constitution of the Constitution of t
Techniques	BP811T	University	55	3	3

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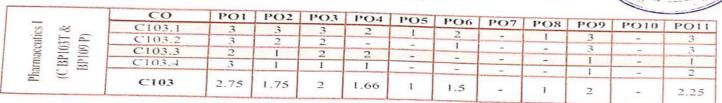
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CO-PO matrices of courses

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

#### Academic year-21-21



3	CO	POI	PO2	PO3	PO4	PO5	PO6	DO7	DOO	200	PO10	
> - ×	C201.1	1 2			2	- 00	. 00	ro/	PO8	PO9	POID	POII
		3	-	3		2	3	3	3	3	3	3
	C201.2	3	-	3	3	2	3	3	3	7	-	
0 7 7 2	C201.3	3	_	3	3	2	2	-		3	3	
n/sig	C201.4	1	-	1	1	1	3	2	3	3	3	3
		1		-		1	1		1		-	1
星 一 )	C201	2.5	-	2.5	2.5	1.75	2.5	2.6	2.5	2.5	3	2.5

.2 2	= 1	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	POO	PO10	POLL
rgami	SL	C301.1	3	PO1	PO1	PO1	_				PO1	POI	POI
5 7 6	2	C301.2	3	3	3	3				_	3	701	POI
Te ti		C301.3	3	3	3	3			-		3	3	3
utic mis	3	C301.4	3	3	3	3	-		-		3	3	3
Pharmace Che (CBP3017		C301	3	3	3	3	-	-	-	-	3	3	3

<u>a</u>	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POLL
- 80	C404.1	3	1	3	2	2	3	1	3	3	3	3
35 A	C404.2	3	-	3	2	- Control of the last of the l	3	2	3	3	3	3
100 S	C404.3	3	-	3	2	1	3	3	3	3	3	3
m #	C404.4	1	-	-	-	1	1	1	1	1	1	1
Pharmacology-I C BP404T & BP408P)	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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CO-PO matrices of courses

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2T &	C502.3	3	2	3	1	And the last of th		1	i			-
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(3)	C502	2.25	2	1.75	1.75	2	THE REAL PROPERTY.	1.	The same of the same of		-	-

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ſ	C606.2	3	2		3	NAME AND ADDRESS OF THE OWNER, WHEN	internation.	3	-	-		2
1	C606.3	No. of Concession, Name of Street, or other Persons, or other Pers	CONTRACTOR SANS	annazzanean	3	-	1	3	TOP STATE OF STREET	NAME AND ADDRESS OF THE OWNER, WHEN	-	3
1	the same of the last of the la	S TO THE PERSON	2	2	1	-	About the Court of	2	ACM AND DESCRIPTION OF THE PERSON OF THE PER	A PROPERTY OF	With the second second	3
-	C606.4	3	3	3	3	AND DESCRIPTION OF THE PARTY OF	CONTRACTOR CANCELLOS AND	THE PERSON NAMED IN	-	Description of the	-	3
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75	C701.1	3		5	104	103	PO6	PO7	PO8	PO9	PO10	PO11
		3	-	3	3	-	3	-	_	3	***************************************	2
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Jo 07	C701.3	3	3	3	3	JEDNESTALIANS	Married Street, Square, Square	elijaansina jara princi gi.	THE REAL PROPERTY.	3	-	2
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or	The same of the sa	THE RESERVE NAMED TO PARTY.	restoración de la contraction	ne to particle operations.	3	AND ADDRESS OF THE PARTY OF THE	2	-	-	1	-	1
Met	C701	3	2	3	3		2.5	-	-	2.5	-	2,4

	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POLL
જ જ	C801.1	3	-	1	2	_	-	3	_	-	2	2
ch ch ch ch ch ch ch ch ch ch ch ch ch c	C801.2	3	-	3	3	-	-	3		-	2	2
tist car odo odo 80]	C801.3	3	-	2	3	_	-	3		STATE OF THE PARTY OF	3	2
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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	PO1	PO1
		A	В	C	D	Е	F	G	11	1	J	K
Human Anatomy & Physiology-1	BP101 T & BP107 P	2.5	-	-	-	-	-	-	1	2	STATE STATE OF THE	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	off a three lands in the state of	2.25
P'cal Inorganic Chemistry	BP104 T & BP110 P	3	3	3	3	-	-	-	-	3	3	3
Communicatio n Skills	BP105 T & BP111 P	-	3	3	3	helik rationas	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	-	and the second	-	-	3	3	3
Biochemistry	BP203 T & BP209	3	1	1.25	1	-	-	-	-	-	-	3
athophysiolog y	BP204 T	3	-	3	Mary and Street Street and		NOTE THE PERSON NAMED IN			3	3	
Environmental	BP206	1.5	2	2	-	2	The state of the s	A CONTRACTOR OF THE PARTY OF TH	2	1.5		3



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				C	O-PO	Attain	ment		B. Carlon St.	Staff		
Sciences	T				T		T	T	Pa	ges: 01		
P'cal Organic Chemistry-II	BP301 T & BP305 P	3	3	3	3	-	77 10 10 10 10 10 10 10 10 10 10 10 10 10		-	3	3	3
Physical Pharmaceutics- I	BP302 T & BP306 P	3	-	3	l	-	1	3	-	-	-	1
Pharmaceutical Microbiology	BP303 T & BP307 P	3	1.75	2.25	1	-	-	-	70.000	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
narmacology- 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
narmacognos y & ytochemistry - 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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ate:				CC	PO At	tainme	ent		All Si						
Medicinal Chemistry-II	BP 501T	1.75	2.5	2.25	2.5		T .	1	Page	5: 01		T			
Industrial Pharmacy-1	BP502 T & 506P	2.25	2	1.75	1.75	2	2	2	1	2		2.2			
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	e-Carchinion	2	-	_	1.66	2	2.6			
Biopharmaceut ics & Pharmacokineti cs	BP604 T	2.75		1.66	2.25	_	_	2.75	-	-	2.25	2.7:			
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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Pate:				C	0-00	Attainn	nent		All S	Staff				
Novel Drug Delivery Systems	BP704 T	2,66	-	1.5	-			2,66		es: 01	1,66	2.3.		
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		
Pharmacovigilan ce	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	Т	3	-	2.33	1.33	CAPCONSISIAN	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 Attain	ment	2.74	2.23	2.4	2.1	1.84	2.18	2.66	2.02	2.44	2.46	2.53		
Direct Attainment 2.19 (80%)		1.78	1.92	1.68	1.47	1.74	2.12	1.62	1.95	1.97	2.02			
Indirect Attainment 0.6 (20%)		0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.6			
Total Attainment 2.79		2.79	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

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### Indirect Attainment Mapping-2021-22

Surveys	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Graduate Exit Survey	-	1		<b>~</b>	~		_	1	1	_	_
Professional Social Activity	/	~	~		~		7	7	-	-	-
Guest Lecture	~	~	1	-	~	~	1	1	1	1	1
Student's Project	~	~	~	~	~	~	1	1	~	1	~
Co- Curricular Activities	1	1	~	~	<b>V</b>	~		~	1	1	1
Extra Curricular Activities		~			~			-			
Hands on Training	1	1	7	1			1	7			1
Industrial Visit	1	1	~	~	~	~	~	1		-	~
Student Council	1	1	1	W STATE OF THE STA	1		TO PROPERTY OF THE PARTY OF THE	~	1	The Part of the Pa	
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 dchandra Pawa

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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% of 3 + 25% of 3 = 2.25 + 0.75 = 3



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