



Pune District Education Association's  
**Shankarrao Ursal College of Pharmaceutical Sciences &  
Research Centre, Kharadi, Pune-14.**

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## **2.6: Student Performance and Learning Outcomes**

**2.6.2: Attainment of Programme Outcomes and Course Outcomes are evaluated by the institution.**



Pune District Education Association's  
Shankarrao Ursal College of Pharmaceutical Sciences  
& Research Centre, Kharadi, Pune-14.



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Pune District Education Association's  
**Shankarrao Ursal College of Pharmaceutical Sciences &  
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**A. Attainment of POs  
(A.Y. 2023-24)**



Pune District Education Association's  
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**A.1. Mechanism: PO Attainment**



Pune District Education Association's  
**Shankarrao Ursal College of Pharmaceutical Sciences and  
Research Centre, Kharadi, Pune-411 014.**



### **Mechanism of Programme Outcome Attainment**

- For each programme outcome (PO) attainment, both direct and indirect tools were taken into consideration.
- The Direct Assessment Parameter takes into account both the results of Internal Exams and End Semester University Examination.
- Indirect Assessment Parameters includes feedback obtained from Employers, Alumni Students, Student Placement, Student participation in extracurricular and Co-curricular activities.
- Based on the learning domain of PO, the weightage for each Direct and Indirect Assessment tool is defined and for each tool four attainment levels were prescribed.
- For each level of attainment, a proper scoring rubric scale is defined.
- Attainment score is determined using the following formula.  
$$\text{Attainment Score} = \text{Weightage} \times \text{Level of Attainment} / 100$$
- Lastly, the total of the attainment Scores from both the direct and indirect Assessments is used to calculate PO attainment.

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**A.2. Attainment of POs  
A.Y. 2023-24**



**Pune District Education Association's  
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**CRITERIA FOR ASSESSMENT OF PROGRAM /LEARNING OUTCOME ATTAINMENT  
A. Y. 2023-24**

**(Attainment calculated on rubric scale of 1 to 4)**

**Program Outcome 1: Pharmacy Knowledge: Graduates will demonstrate**

- Ability to integrate fundamental concepts from Medicinal Chemistry, Pharmaceutics, Pharmacology, Pharmacognosy, Toxicology, Therapeutics and Pharmacokinetics.
- An understanding of Quality Control/Assurance of Pharmaceuticals and Drug Regulatory Affairs.

With this knowledge, the graduates will be able to demonstrate high level of understanding of the key stages in drug discovery, development, manufacturing and commercialization.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4(Excellent)	3(Very good)	2(Good)	1(Average)
Direct assessment	Result in internal/ universities examination	70	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $< 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below 60%
Indirect Assessment	Employer feedback	5	Employer satisfied with student subject knowledge and technical skill $\geq 80\%$	Employer satisfied with student subject knowledge and technical skills $\geq 70\%$ and $\leq 79\%$	Employer satisfied with students' subject knowledge and technical skill $\geq 60\%$ and $\leq 69\%$	Employer satisfied with student subject knowledge and technical skills $\leq 60\%$
	Alumni feedback	10	Percent of alumni satisfied with subject knowledge and technical skill imparted $\geq 80\%$	Percent of alumni satisfied with subject knowledge and technical skill imparted $\geq 70\%$ and $\leq 79\%$	Percent of elements satisfied with subject knowledge and technical skill imparted $\geq 60\%$ and $\leq 69\%$	Percent of alumni satisfied with subject knowledge and technical skill imparted $\leq 60\%$
	Student feedback	5	Student feedback about course content delivery: score $\geq 2.4$ on the scale of 1 to 3	Student feedback about course content delivery: score $\geq 2.1$ and $\leq 2.3$ on the scale of 1 to 3	Student feedback about course content delivery: score $\geq 1.8$ and $\leq 2.0$ on the scale of 1 to 3	Student feedback about course content delivery: score $\leq 1.8$ on the scale of 1 to 3
	Placement /student opting for higher studies	10	Placement / student opting for higher studies $\geq 80\%$	Placement / students opting for higher studies $\geq 70\%$ and $\leq 79\%$	Placement / students opting for higher studies $\geq 60\%$ and $\leq 69\%$	Placement / students opting for higher studies $\geq 50\%$ and $\leq 59\%$

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME-1:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	70	4	2.8
<b>Indirect Assessment</b>	Employer Feedback	5	3	0.15
	Alumni Feedback	10	3	0.3
	Student Feedback	5	3	0.15
	Placement and student opting for higher studies	10	2	0.2
<b>PO-1 Attainment Score (out of 4)</b>				<b>3.60</b>

**PROGRAM OUTCOME-1: LEVEL OF ATTAINMENT: 3.60**





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**CRITERIA FOR ASSESSMENT OF PROGRAM /LEARNING OUTCOME ATTAINMENT  
A. Y. 2023-24**

(Attainment calculated on rubric scale of 1 to 4)

**Program Outcome 2: Planning Abilities:**

Graduates will develop planning and organizational skills, through curricular and co-curricular activities, with demonstrated ability to efficiently complete assignments within stipulated time frame.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4 (Excellent)	3 (Very good)	2 (Good)	1 (Average)
<b>Direct Assessment</b>	Result in internal/ universities examination	75	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $\leq 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below 60%
<b>Indirect Assessment</b>	Employer feedback	10	Employer satisfied with student planning and organization skills $\geq 80\%$	Employer satisfied with student planning and organization skills $\geq 70\%$ and $\leq 79\%$	Employer satisfied with students planning and organization skill $\geq 60\%$ and $\leq 69\%$	Employer satisfied with student planning and organization skills $\leq 60\%$
	Alumni feedback	10	Percent of alumni satisfied with overall development activities organized by college $\geq 80\%$	Percent of alumni satisfied with overall development activities organized by college $\geq 70\%$ and $\leq 79\%$	Percent of elements satisfied with overall development activities organized by college $\geq 60\%$ and $\leq 69\%$	Percent of alumni satisfied with overall development activities organized by college $\leq 60\%$
	Student participation	5	Student participation in extracurricular/ cocurricular activities: $\geq 80\%$	Student participation in extracurricular/ cocurricular activities: $\geq 70\%$ and $\leq 79\%$	Student participation in extracurricular/ cocurricular activities: $\geq 60\%$ and $\leq 69\%$	Student participation in extracurricular/ cocurricular activities: $\geq 50\%$ and $\leq 59\%$

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME-2:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	75	4	3
<b>Indirect Assessment</b>	Employer Feedback	10	3	0.3
	Alumni Feedback	10	3	0.2
	Student Participation	5	4	0.2
<b>PO-2 Attainment Score (out of 4)</b>				<b>3.7</b>

**PROGRAM OUTCOME-2: LEVEL OF ATTAINMENT: 3.7**



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**CRITERIA FOR ASSESSMENT OF PROGRAM /LEARNING OUTCOME ATTAINMENT  
A. Y. 2023-24  
(Attainment calculated on rubric scale of 1 to 4)**

**PROGRAM OUTCOME 3: PROBLEM ANALYSIS:**

Graduates will demonstrate an aptitude to examine problems, related drugs/formulations, logically and rationally, acquire, evaluate and synthesize information and knowledge relevant to the problem, and make logic and ethical decision.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4 (Excellent)	3 (Very good)	2 (Good)	1 (Average)
<b>Direct Assessment</b>	Result in internal/ universities examination	70	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $\leq 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below 60%
<b>Indirect Assessment</b>	Employer feedback	10	Employer satisfied with students problem solving skills $\geq 80\%$	Employer satisfied with students problem solving skills $\geq 70\%$ and $\leq 79\%$	Employer satisfied with students problem solving skills $\geq 60\%$ and $\leq 69\%$	Employer satisfied with students problem solving skills $\leq 60\%$
	Alumni feedback	10	Percent of alumni satisfied with subject knowledge and technical skill imparted by curriculum $\geq 80\%$	Percent of alumni satisfied with subject knowledge and technical skill imparted by curriculum $\geq 70\%$ and $\leq 79\%$	Percent of elements satisfied with subject knowledge and technical skill imparted by curriculum $\geq 60\%$ and $\leq 69\%$	Percent of alumni satisfied with subject knowledge and technical skill imparted by curriculum $\leq 60\%$
	Student feedback	10	Student feedback about course content delivery: score $\geq 2.4$ on the scale of 1 to 3	Student feedback about course content delivery: score $\geq 2.1$ and $\leq 2.3$ on the scale of 1 to 3	Student feedback about course content delivery: score $\geq 1.8$ and $\leq 2.0$ on the scale of 1 to 3	Student feedback about course content delivery: score $\leq 1.8$ on the scale of 1 to 3

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME-3:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	70	4	2.8
<b>Indirect Assessment</b>	Employer Feedback	10	3	0.3
	Alumni Feedback	10	3	0.3
	Student Feedback	10	3	0.3
<b>PO-3 Attainment Score (out of 4)</b>				<b>3.7</b>

**PROGRAM OUTCOME-3: LEVEL OF ATTAINMENT: 3.7**



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**CRITERIA FOR ASSESSMENT OF PROGRAM /LEARNING OUTCOME ATTAINMENT  
A. Y. 2023-24  
(Attainment calculated on rubric scale of 1 to 4)**

**PROGRAM OUTCOME 4: MODERN TOOL USAGE:**

Graduates will demonstrate the skills to use modern pharmaceutical tools, software and equipment to analyze and solve problems.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4 (Excellent)	3 (Very good)	2 (Good)	1 (Average)
<b>Direct assessment</b>	Result in internal/ universities examination	80	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $\leq 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below 60%
<b>Indirect Assessment</b>	Employer feedback	5	Employer satisfied with students Use of technology and attitude towards learning new technology $\geq 80\%$	Employer satisfied with students Use of technology and attitude towards learning new technology $\geq 70\%$ and $\leq 79\%$	Employer satisfied with students Use of technology and attitude towards learning new technology $\geq 60\%$ and $\leq 69\%$	Employer satisfied with student Use of technology and attitude towards learning new technology $\leq 60\%$
	Alumni feedback	5	Percent of Alumni satisfied with subject knowledge and technical skill imparted by curriculum $\geq 80\%$	Percent of Alumni satisfied with subject knowledge and technical skill imparted by curriculum $\geq 70\%$ and $\leq 79\%$	Percent of elements satisfied with subject knowledge and technical skill imparted by curriculum $\geq 60\%$ and $\leq 69\%$	Percent of Alumni satisfied with subject knowledge and technical skill imparted by curriculum $\leq 60\%$
	student feedback	10	Student feedback about course content delivery: score $\geq 2.4$ on the scale of 1 to 3	Student feedback about course content delivery: score $\geq 2.1$ and $\leq 2.3$ on the scale of 1 to 3	Student feedback about course content delivery: score $\geq 1.8$ and $\leq 2.0$ on the scale of 1 to 3	Student feedback about course content delivery: score $\leq 1.8$ on the scale of 1 to 3

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME 4:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	80	4	3.2
<b>Indirect Assessment</b>	Employer Feedback	5	2	0.1
	Alumni feedback	5	3	0.15
	Student Feedback	10	3	0.3
<b>PO-6 Attainment Score (out of 4)</b>				<b>3.75</b>

**PROGRAM OUTCOME-6: LEVEL OF ATTAINMENT: 3.75**



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**CRITERIA FOR ASSESSMENT OF PROGRAM /LEARNING OUTCOME ATTAINMENT**

**A. Y. 2023-24**

(Attainment calculated on rubric scale of 1 to 4)

**PROGRAM OUTCOME 5: LEADERSHIP SKILLS:**

Graduates will acquire knowledge of leadership traits and skills interpersonal skills through co-curricular and extracurricular activities, that will enable them to lead or effectively contribute to the organizational development.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4 (Excellent)	3 (Very good)	2 (Good)	1 (Average)
<b>Direct assessment</b>	Result in internal/ universities examination	20	Subject wise result $\geq$ 90%	Subject wise results $\geq$ 70% and $\leq$ 89%	Subject wise result $\geq$ 60% and $\leq$ 69%	Subject wise result below 60%
<b>Indirect Assessment</b>	Employer feedback	30	Employer satisfied with Students ability to manage / leadership qualities $\geq$ 80%	Employer satisfied with Students ability to manage / leadership qualities $\geq$ 70% and $\leq$ 79%	Employer satisfied with Students ability to manage / leadership qualities $\geq$ 60% and $\leq$ 69%	Employer satisfied with Students ability to manage / leadership qualities $\leq$ 60%
	Alumni feedback	20	Percent of alumni satisfied with Overall development activities organized by college $\geq$ 80%	Percent of alumni satisfied with Overall development activities organized by college $\geq$ 70% and $\leq$ 79%	Percent of elements satisfied with Overall development activities organized by college $\geq$ 60% and $\leq$ 69%	Percent of alumni satisfied with Overall development activities organized by college $\leq$ 60%
	Student Feedback	10	Student feedback about course content delivery: score $\geq$ 2.4 on the scale of 1 to 3	Student feedback about course content delivery: score $\geq$ 2.1 and $\leq$ 2.3 on the scale of 1 to 3	Student feedback about course content delivery: score $\geq$ 1.8 and $\leq$ 2.0 on the scale of 1 to 3	Student feedback about course content delivery: score $\leq$ 1.8 on the scale of 1 to 3
	Students Participation	20	Student participation in extracurricular/ cocurricular activities: $\geq$ 80%	Student participation in extracurricular/ cocurricular activities: $\geq$ 70% and $\leq$ 79%	Student participation in extracurricular/ cocurricular activities: $\geq$ 60% and $\leq$ 69%	Student participation in extracurricular/ cocurricular activities: 60%

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME 5:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	20	4	0.8
<b>Indirect Assessment</b>	Employer Feedback	30	3	0.9
	Alumni Feedback	20	3	0.6
	Student Feedback	10	3	0.3
	Student Participation	20	4	0.8
<b>PO-5 Average Attainment Score (out of 4)</b>				<b>3.4</b>

**PROGRAM OUTCOME-5: LEVEL OF ATTAINMENT: 3.4**





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**CRITERIA FOR ASSESSMENT OF PROGRAM /LEARNING OUTCOME ATTAINMENT  
A. Y. 2023-24**

(Attainment calculated on rubric scale of 1 to 4)

**PROGRAM OUTCOME 6: PROFESSIONAL IDENTITY:**

Graduates will be transformed from a student to a professional who understand his or her role and responsibilities as an expert in the field of health care.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4 (Excellent)	3 (Very good)	2 (Good)	1 (Average)
<b>Direct Assessment</b>	Result in internal/ universities examination	50	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $\leq 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below 60%
<b>Indirect Assessment</b>	Employer feedback	20	Students with average score $\geq 3$ on the scale of 1 to 4 $\geq 80\%$	Students with average score $> 3$ on the scale of 1 to 4 $\geq 70\%$ and $\leq 79\%$	Students with average score $> 3$ on the scale of 1 to 4 $> 60\%$ and $\leq 69\%$	Students with average score $> 3$ on the scale of 1 to 4 $\leq 60\%$
	Students Participation	20	Student participation in extracurricular/ cocurricular activities: $\geq 80\%$	Student participation in extracurricular/ cocurricular activities: $\geq 70\%$ and $\leq 79\%$	Student participation in extracurricular/ cocurricular activities: $\geq 60\%$ and $\leq 69\%$	Student participation in extracurricular/ cocurricular activities: 60%
	Student Feedback	10	Student feedback on cocurricular activity above 2.4 on the scale of 1 to 3	Student feedback on cocurricular activity between 2.1 and 2.3 on the scale of 1 to 3	Student feedback on cocurricular activity between 1.8 and 2.0 on the scale of 1 to 3	Student feedback on cocurricular activity between 1.8 on the scale of 1 to 3

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME 6:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	50	4	2
<b>Indirect Assessment</b>	Employer Feedback	20	3	0.6
	Student Participation	20	4	0.8
	Student Feedback	10	3	0.3
<b>PO-6 Attainment Score (out of 4)</b>				<b>3.7</b>

**PROGRAM OUTCOME-6: LEVEL OF ATTAINMENT: 3.7**



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**CRITERIA FOR ASSESSMENT OF PROGRAM /LEARNING OUTCOME ATTAINMENT  
A. Y. 2023-24**

(Attainment calculated on rubric scale of 1 to 4)

**PROGRAM OUTCOME 7: PHARMACEUTICAL ETHICS:**

Graduates will demonstrate sensitivity to personal values and ethics in professional endeavor and social contexts.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4 (Excellent)	3 (Very good)	2 (Good)	1 (Average)
Direct Assessment	Result in internal/ universities examination	50	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $\leq 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below $60\%$
	Employer feedback	30	Employer satisfied with students ethical attitude towards job responsibility $\geq 80\%$	Employer satisfied with students ethical attitude towards job responsibility $\geq 70\%$ and $\leq 79\%$	Employer satisfied with students ethical attitude towards job responsibility $\geq 60\%$ and $\leq 69\%$	Employer satisfied with students ethical attitude towards job responsibility $\leq 60\%$
Indirect Assessment	Students Participation	20	Students participation in NSS and social healthcare activities $\geq 80\%$	Students participation in NSS and social healthcare activities $\geq 70\%$ and $\leq 79\%$	Students participation in NSS and social healthcare activities $\geq 60\%$ and $\leq 69\%$	Students participation in NSS and social healthcare activities $\leq 60\%$

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME 7:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	50	4	2
<b>Indirect Assessment</b>	Employer Feedback	30	3	0.9
	Student Participation	20	4	0.8
<b>PO-7 Attainment Score (out of 4)</b>				<b>3.7</b>

**PROGRAM OUTCOME-7: LEVEL OF ATTAINMENT: 3.7**



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**CRITERIA FOR ASSESSMENT OF PROGRAM /LEARNING OUTCOME ATTAINMENT  
A. Y. 2023-24**

(Attainment calculated on rubric scale of 1 to 4)

**PROGRAM OUTCOME 8: COMMUNICATION:**

Graduates will effectively listen, speak and write in a manner that facilitates positive interaction with health professionals, patients and the public.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4(Excellent)	3 (Very good)	2 (Good)	1 (Average)
<b>Direct assessment</b>	Result in internal/ universities examination	50	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $\leq 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below 60%
<b>Indirect Assessment</b>	Employer feedback	15	Employer satisfied with students communication skill $\geq 80\%$	Employer satisfied with student communication skills $\geq 70\%$ and $\leq 79\%$	Employer satisfied with students communication skill $\geq 60\%$ and $\leq 69\%$	Employer satisfied with communication skills $\leq 60\%$
	Alumni feedback	15	Percent of alumni satisfied with Overall development activities organized by college $\geq 80\%$	Percent of alumni satisfied with Overall development activities organized by college $\geq 70\%$ and $\leq 79\%$	Percent of elements satisfied with Overall development activities organized by college $\geq 60\%$ and $\leq 69\%$	Percent of alumni satisfied with Overall development activities organized by college $\leq 60\%$
	Student feedback	10	Student feedback about Personality development workshop score $\geq 2.4$ on the scale of 1 to 3	Student feedback about Personality development workshop score $\geq 2.1$ and $\leq 2.3$ on the scale of 1 to 3	Student feedback about Personality development workshop score $\geq 1.8$ and $\leq 2.0$ on the scale of 1 to 3	Student feedback about Personality development workshop score $\leq 1.8$ on the scale of 1 to 3
	Placement /Student opting for higher studies	10	Placement / student opting for higher studies $\geq 80\%$	Placement / students opting for higher studies $\geq 70\%$ and $\leq 79\%$	Placement / students opting for higher studies $\geq 60\%$ and $\leq 69\%$	Placement / students opting for higher studies $\geq 50\%$ and $\leq 59\%$

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME 8:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	50	4	2
<b>Indirect Assessment</b>	Employer Feedback	15	3	0.45
	Alumni Feedback	15	3	0.45
	Students Feedback	10	3	0.3
	Placement and Students Opting for Higher Studies	10	3	0.3
<b>PO-8 Attainment Score (out of 4)</b>				<b>3.5</b>

**PROGRAM OUTCOME-8: LEVEL OF ATTAINMENT: 3.5**



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**A. Y. 2023-24**

(Attainment calculated on rubric scale of 1 to 4)

**PROGRAM OUTCOME 9: PHARMACIST & SOCIETY:**

Graduates will promote health improvement through disease prevention and management programs and creating awareness about effective and safe use of medicines.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4 (Excellent)	3 (Very good)	2 (Good)	1 (Average)
<b>Direct assessment</b>	Result in internal/ universities examination	40	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $\leq 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below 60%
<b>Indirect Assessment</b>	Employer feedback	25	Employer satisfied with students communication skill $\geq 80\%$	Employer satisfied with student communication skills $\geq 70\%$ and $\leq 79\%$	Employer satisfied with students communication skill $\geq 60\%$ and $\leq 69\%$	Employer satisfied with communication skills $\leq 60\%$
	Students Participation	35	Students participation in NSS and social healthcare activities $\geq 80\%$	Students participation in NSS and social healthcare activities $\geq 70\%$ and $\leq 79\%$	Students participation in NSS and social healthcare activities $\geq 60\%$ and $\leq 69\%$	Students participation in NSS and social healthcare activities $\leq 60\%$

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME 9:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	40	4	1.6
<b>Indirect Assessment</b>	Employer Feedback	25	3	0.73
	Student Participation	35	4	1.4
<b>PO-9 Attainment Score (out of 4)</b>				<b>3.73</b>

**PROGRAM OUTCOME-9: LEVEL OF ATTAINMENT: 3.73**





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A. Y. 2023-24**

(Attainment calculated on rubric scale of 1 to 4)

**PROGRAM OUTCOME 10: ENVIRONMENT & SUSTAINABILITY:**

Graduates will acquire knowledge of impact of pharmaceuticals on environment; demonstrate understanding of appropriate methodological tools to analyze and develop medicine products having same medicinal values but with reduced environmental impact.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4 (Excellent)	3 (Very good)	2 (Good)	1 (Average)
<b>Direct Assessment</b>	Result in internal/ universities examination	50	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $\leq 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below 60%
<b>Indirect Assessment</b>	Students Participation	50	Students participation in environmental science field visit ( considering number of third and final year students) $\geq 80\%$	Student participation in environmental science field visit (considering number of third and final year student) $\geq 70\%$ and $\leq 79\%$	Student participation in environmental science field visit ( considering number of third and final year student ) $\geq 60\%$ and $\leq 69\%$	Student participation in environmental science field visit (considering number of third and final year student) $\geq 60\%$

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME 10:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	50	4	2
<b>Indirect Assessment</b>	Student Participation	50	4	2
<b>PO-10 Average Attainment Score (out of 4)</b>				<b>4</b>

**PROGRAM OUTCOME-10: LEVEL OF ATTAINMENT: 4**



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**CRITERIA FOR ASSESSMENT OF PROGRAM /LEARNING OUTCOME ATTAINMENT**

**A. Y. 2023-24**

**(Attainment calculated on rubric scale of 1 to 4)**

**PROGRAM OUTCOME 11: LIFE LONG LEARNING:**

Graduates will demonstrate recognition of the need for, and an ability to engage in lifelong learning by updating himself/ or herself with the current trends/regulations in the field of pharmaceutical sciences.

Assessment tool	Assessment parameter	Weightage	Level of Attainment			
			4 (Excellent)	3 (Very good)	2 (Good)	1 (Average)
<b>Direct Assessment</b>	Result in internal/ universities examination	50	Subject wise result $\geq 90\%$	Subject wise results $\geq 70\%$ and $\leq 89\%$	Subject wise result $\geq 60\%$ and $\leq 69\%$	Subject wise result below 60%
<b>Indirect Assessment</b>	Employer feedback	20	Employer Satisfied with students attitude towards learning new technology $\geq 80\%$	Employer Satisfied with students attitude towards learning new technology $\geq 70\%$ and $\leq 79\%$	Employer Satisfied with students attitude towards learning new technology $\geq 60\%$ and $\leq 69\%$	Employer Satisfied with students attitude towards learning new technology $\leq 60\%$
	Students Participation	20	Student participation in extracurricular/ cocurricular activities (Seminar / guest lecture) $\geq 80\%$	Student participation in extracurricular/ cocurricular activities: $\geq 70\%$ and $\leq 79\%$	Student participation in extracurricular/ cocurricular activities: $\geq 60\%$ and $\leq 69\%$	Student participation in extracurricular/ cocurricular activities: $60\%$
	Alumni feedback	10	Percent of alumni satisfied with overall Development activities organized by college $\geq 80\%$	Percent of alumni satisfied with overall Development activities organized by college $\geq 70\%$ and $\leq 79\%$	Percent of alumni satisfied with overall Development activities organized by college $\geq 60\%$ and $\leq 69\%$	Percent of alumni satisfied with overall Development activities organized by college $\geq 60\%$

**ASSESSMENT OF ATTAINMENT OF PROGRAM OUTCOME 11:**

<b>Assessment tool</b>	<b>Assessment parameter</b>	<b>Weightage (In Percentage)</b>	<b>Level of Attainment</b>	<b>Attainment Score (Weightage X Level of Attainment/100)</b>
<b>Direct Assessment</b>	Result in Internal/University Examination	50	4	2
<b>Indirect Assessment</b>	Employer Feedback	20	3	0.6
	Student Participation	20	3	0.6
	Alumni Feedback	10	4	0.4
<b>PO-11 Attainment Score (out of 4)</b>				<b>3.6</b>

**PROGRAM OUTCOME-11: LEVEL OF ATTAINMENT: 3.6**



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**B. Attainment of COs  
(A.Y. 2023-24)**



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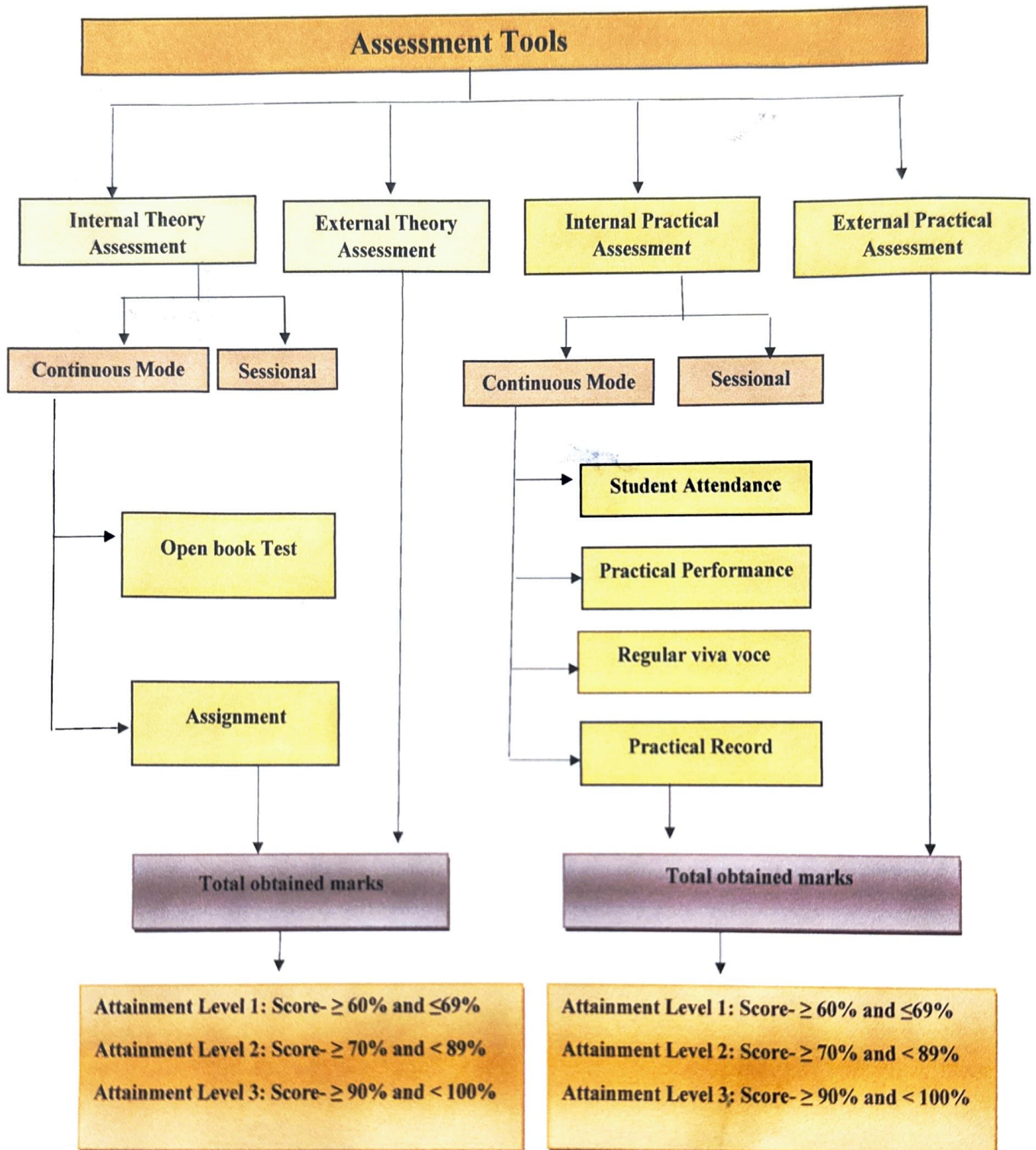
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**B.1. Mechanism: CO Attainment**



### Mechanism of CO Attainment



Course Attainment Theory

Course Attainment Practical

*[Signature]*  
Dr. V. U. Barge

Vice Principal & Coordinator

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*[Signature]*  
Dr. Ashok Bhosale

Principal

**PRINCIPAL**

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Kharadi, Pune-411014



Pune District Education Association's  
**Shankarrao Ursal College of Pharmaceutical Sciences &  
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**B.2. Attainment of COs  
A.Y. 2023-24**





**Course Outcome Attainment 2023-24 (Term-I)**

Sr. No.	Class	Course	Course Code	Attainment Level	
				Th	PR
1.	<b>F. Y. B. Pharm (Sem-I)</b>	Human Anatomy And Physiology I	BP101T/BP107P	1	3
2.		Pharmaceutical Analysis I	BP102T/BP108P	1	3
3.		Pharmaceutics I	BP103T/BP109P	1	3
4.		Pharmaceutical Inorganic Chemistry	BP104T/BP110P	2	3
5.		Communication Skills	BP105T/BP111P	2	2
6.		Remedial Biology OR Remedial Mathematics	BP106RBT/ BP112RBP BP106RMT	3 1	3 --
1.		<b>S. Y. B. Pharm (Sem-III)</b>	Pharmaceutical Organic Chemistry-II	BP301T/BP305 P	3
2.	Physical Pharmaceutics I		BP302 T/BP306 P	3	3
3.	Pharmaceutical Microbiology		BP303T/BP307 P	3	3
4.	Pharmaceutical Engineering		BP304 T/BP308 P	2	3
1.	<b>T. Y. B. Pharm (Sem-V)</b>	Medicinal Chemistry-II	BP501T	1	--
2.		Industrial Pharmacy-I	BP502 T/BP506 P	3	3
3.		Pharmacology- II	BP503 T/BP507 P	2	3
4.		Pharmacognosy and Phytochemistry-II	BP504 T/ BP508 P	2	3
5.		Pharm. Jurisprudence	BP505 T	3	--
1.	<b>Final Y. B. Pharm (Sem-VII)</b>	Instrumental Methods of Analysis	BP701 T/ BP705 P	3	3
2.		Industrial Pharmacy-II	BP702T	3	--
3.		Pharmacy Practice	BP703 T	2	--
4.		Novel Drug Delivery System	BP704 T	3	--
5.		Practice School	BP706 T	--	3

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**Course Outcome Attainment 2023-2024 (Term-II)**

Sr. No.	Class	Course	Course Code	Attainment Level	
				Th	Pr
1.	<b>F. Y. B. Pharm (Sem-II)</b>	Human Anatomy & Physiology –II	BP201T/BP207P	2	3
2.		Pharmaceutical organic chemistry-I	BP202T/BP208P	1	3
3.		Biochemistry	BP203T/BP209P	2	3
4.		Pathophysiology	BP204T	2	--
5.		Comp. Application	BP205T/BP210P	3	3
6.		Environmental Sciences	BP206T	3	--
1.	<b>S.Y. B. Pharm (Sem-IV)</b>	Pharmaceutical Organic Chemistry-III	BP401T	3	--
2.		Medicinal Chemistry-I	BP402T/BP406P	3	3
3.		Physical Pharmaceutics II	BP403T/BP407P	3	3
4.		Pharmacology- I	BP404T/BP408P	2	3
5.		Pharmacognosy and Phytochemistry-I	BP405T/BP409P	3	3
1.	<b>T. Y. B. Pharm (Sem-VI)</b>	Medicinal Chemistry-III	BP601T/BP607P	2	3
2.		Pharmacology- III	BP602T/BP608P	2	3
3.		Herbal Drug Technology	BP603T/BP609P	3	3
4.		Biopharmaceutics and Pharmacokinetics	BP604T	3	--
5.		Pharmaceutical Biotechnology	BP605T	3	--
6.		Quality Assurance	BP606T	3	--
1.	<b>Final Y. B. Pharm (Sem-VIII)</b>	Biostatistics and Research Methodology	BP801T	3	--
2.		Social and Preventive Pharmacy	BP802T	3	--
3.		Pharmacovigilance	BP805ET	3	--
4.		Cosmetic Science	BP809ET	3	--
5.		Project Work	BP813PW	3	--

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Course Outcome Attainment 2023-24 (Term-I)

Sr. No.	Class	Course	Course Code	Attainment Level	
				Th	Pr
1.	<b>F. Y. M. Pharm (Sem-I) Pharmaceutics</b>	Modern Pharmaceutical Analytical Techniques	MPH101 T	3	--
2.		Drug Delivery System	MPH102 T	3	--
3.		Modern Pharmaceutics	MPH103 T	3	--
4.		Regulatory Affair	MPH104 T	3	--
5.		Pharmaceutics Practical I	MPH105P	--	3
1.	<b>F. Y. M. Pharm (Sem-I) Pharmaceutical Quality Assurance</b>	Modern Pharmaceutical Analytical Techniques	MQA101 T	3	--
2.		Quality Management System	MQA102 T	3	--
3.		Quality Control and Quality Assurance	MQA103 T	3	--
4.		Product Development and Technology Transfer	MQA104 T	3	--
5.		Pharmaceutical Quality Assurance Practical I	MQA105P	--	3

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Course Outcome Attainment 2023-24 (Term-II)

Sr. No.	Class	Course	Course Code	Attainment Level	
				Th	Pr
1.	<b>F. Y. M. Pharm (Sem-II) Pharmaceutics</b>	Molecular Pharmaceutics (Nano Tech and Targeted DDS)	MPH201T	3	--
2.		Advanced Biopharmaceutics & Pharmacokinetics	MPH202T	3	--
3.		Computer Aided Drug Delivery System	MPH203T	3	--
4.		Cosmetic and Cosmeceuticals	MPH204T	3	--
5.		Pharmaceutics Practical II	MPH205P	--	3
1.	<b>F. Y. M. Pharm (Sem-II) Pharmaceutical Quality Assurance</b>	Hazards and Safety Management	MQA201T	2	--
2.		Pharmaceutical Validation	MQA202T	2	--
3.		Audits and Regulatory Compliance	MQA203T	2	--
4.		Pharmaceutical Manufacturing Technology	MQA204T	2	--
5.		Pharmaceutical Quality Assurance Practical II	MQA205P	--	3

  
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