



2.6 STUDENT PERFORMANCE AND LEARNING OUTCOME

2.6.2 Evaluation of attainment of program outcomes and course outcomes

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Subject : Method of assessment of PO's, PSO's and CO's

The institute evaluates the attainment of Program Outcomes (PO), Program Specific Outcomes (PSO) and Course Outcomes (CO) by adopting the following procedure;

1. To evaluate PO's, PSO's and CO's, the institute adopts two assessment methods;
 - Direct Assessment
 - Indirect Assessment
2. The Overall Course Outcomes Attainment factor is evaluated by taking 80% of the Direct Assessment and 20% of the Indirect Assessment.
3. The Program Outcomes and Program Specific Outcomes attainment is evaluated by using (Overall Course Outcome attainment factor * CO-PO mapping)/3(High level).

A. Procedure for Attainment through Direct Assessment (80%)

The attainment levels are specified in terms of High(level 3), Medium(level 2) and Low(level 1). These three levels are distributed as follows depending on the percentage attained for mapping:

Level -1	<60%
Level -2	60-80%
Level - 3	>80%

Direct Assessment:

1. Performance in Internal Assessment (theory and labs)
 - Includes Internal Exam(Two Test)
 - Assignments
2. Performance in End Semester Examinations (theory and labs)
3. Performance in Project Evaluation(Minor and Major Project)

Direct Assessment Tools:

Internal Assessment (Mid Examinations) (for 25 marks)

Internal assessment is carried out through internal exam i.e.,two sessional exams (S-1, S-2), and assignments. These examinations are focused on attaining the course outcomes.

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**End Semester Examinations (for 75 marks)**

End semester examinations focus on attainment of course outcomes through descriptive mode.

It is metric for evaluating whether all the course outcomes are attained or not.

B. Indirect Assessment:

Feedback from the stake holders in the form of Survey and feedback.

Indirect Assessment Tools:

1. Course Exit Survey: At the end of each semester, course exit survey is conducted to analyze all course outcomes.
2. Program Exit Survey: This survey is conducted at the end of B. Pharm program to analyze all the program outcomes and Program Specific Outcomes.

C. Steps for Calculation of Attainment:**Attainment through Direct Assessment (80%)**

1. Set the threshold for marks to assess the student's performance in internal assessment and end semester exam. (e.g., 50% is set)
2. Find the no. of students scored 50% and above.
3. Find percentage attained (i.e., How many percentages of students scored 50% and above).
4. Rate the level (High-3, Med-2, Low-1) to each Course outcome depending on the percentage attained as discussed in point 3 and as per the rubric set for CO-attainment as mentioned in point A.

Internal Assessment = (Internal Exam + Assignments) out of 25 Marks

Direct CO Attainment = (0.8 * End Exam + 0.2 * Internal Assessment) out of 75 Marks

Attainment through Indirect Assessment (20%)

1. The indirect assessment contains CO exit survey at the end of each semester. Hence, overall CO Attainment is calculated as follows:

Overall CO Attainment = (0.8 * Direct CO Attainment + 0.2 * Indirect CO Attainment)

The indirect assessment also contains feedback from various stakeholders such as parents, alumni, faculty, students, employer along with exit survey. Feedback is collected in the scale of 5 and then converted to the percentage.

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Attainment of Program outcomes-Course outcome B. Pharmacy Sem VI 2022-23

Roll No.	Name of Student	BP601T Medicinal Chemistry III					out of 75	BP602T Pharmacology III					out of 75
		First Sess (out of 15)	Sec Sess (Out of 15)	Aver g (Out of 15)	Cont Asses(Out of 10)	Total (Out of 25) [3+4]		First Session al (out of 15)	Seco nd Sessi onal (Out of 15)	Averag e (Out of 15)	Cont Asses (Out of 10)	Total (Out of 25) [8+9]	
		1	2	3	4	5	Univ	6	7	8	9	10	Univ
601	Aadil M. Jamiruddin Ansari	10	10	10	9	19	41	4	3	4	7	11	17
602	Abhishek Jaichand Pawar	11	13	12	10	22	55	9	10	10	8	18	45
603	Aditya Anil Pise	9	9	9	10	19	39	8	4	6	8	14	38
604	Akanksha Ishwardas Vaidya	10	7	9	8	17	39	9	5	7	10	17	26
605	Akshata Laxmikant Fasate	13	12	13	10	23	49	11	13	12	10	22	53
606	Altaf Husain A. M. Mansuri	4	7	6	9	15	40	6	5	6	7	13	41
607	Aniruddha Rajendra Biyani	12	13	13	10	23	50	10	10	10	10	20	51
608	Anshu Gupta	8	9	9	10	19	34	7	5	6	10	16	32
609	Anshula Prashant Chafle	12	13	13	10	23	39	7	9	8	8	16	41
610	Apurva Pundlik Fulzele	12	10	11	10	21	36	11	10	11	10	21	36
611	Ashwini Madhukar Shende	10	13	12	10	22	48	11	11	11	8	19	55
612	Avantika Narendra Kambale	10	10	10	10	20	48	5	8	7	9	16	39
613	Dharmendra Kumar Sahu	7	11	9	10	19	38	6	6	6	9	15	37
614	Dimple Dinesh Harvidya	8	9	9	9	18	39	8	8	8	7	15	35
615	Divyani Bhagwan Patil	10	10	10	9	19	42	10	9	10	8	18	33
616	Ekta Rajkumar Bhagat	12	12	12	9	21	46	8	10	9	8	17	43
617	Gauri Gopal Vishwakarma	3	4	4	8	12	16	3	6	5	7	12	9
618	Harshal Ashok Panbude	13	11	12	10	22	47	11	11	11	8	19	50
629	Harshal Sanjay Ghavghave	13	11	12	10	22	51	10	11	11	8	19	48
620	Janvi Kishor Tiple	AB	5	3	8	11	18	AB	AB	0	7	7	21
621	Jeet Satish Pawar	AB	7	4	8	12	44	AB	2	2	7	9	36
622	Kajal Ganesh Khatri	13	10	12	9	21	48	AB	7	7	7	14	35
623	Lakhan Santosh Goenka	8	6	7	8	15	38	2	4	3	7	10	33
624	Lokesh Ajaysingh	6	6	6	10	16	28	7	5	6	7	13	34



	Balgujar												
625	Manish Ramprasad Jagatban	9	11	10	9	19	40	8	2	5	9	14	22
626	Mansi Vilas Shivankar	7	9	8	10	18	32	4	7	6	7	13	15
627	Medini N. Mishra	13	13	13	10	23	57	12	11	12	7	19	57
628	Mrunali R. Akhare	12	14	13	10	23	50	12	13	13	8	21	50
629	Muskan Sachanand Sundarani	10	10	10	9	19	33	8	7	8	7	15	24
630	Namita Nagendra Wasnik	10	12	11	9	20	43	8	4	6	7	13	27
631	Nikhil Sanjay Tenguriya	11	9	10	9	19	49	6	7	7	7	14	38
632	Nisha Suryabhan Shahu	8	10	9	10	19	36	9	6	8	8	16	33
633	Ojas Mangesh Bhad	9	10	10	10	20	45	8	10	9	7	16	44
634	Prachi Vijay Wadaskar	5	5	5	8	13	29	7	4	6	7	13	35
635	Pranjali Sunil Wankhede	5	8	7	9	16	31	4	4	4	7	11	15
636	Pritam Krushnarao Thakre	10	10	10	10	20	15	4	4	4	7	11	1
637	Priyanka Valmik Rahmatkar	8	9	9	8	17	43	4	7	6	7	13	29
638	Purva Manoj Chordiya	13	10	12	9	21	35	10	8	9	7	16	38
639	Radha Ramesh Bind	9	12	11	10	21	44	9	12	11	9	20	43
640	Radhika Diliprao Sapkal	13	11	12	10	22	58	8	9	9	7	16	51
641	Ram Sunil Kumbhare	5	6	6	8	14	27	AB	6	6	7	13	11
642	Raunak Rajkumar Hiranwar	5	2	4	9	13	11	3	5	4	7	11	3
643	Saisha Samir Choudhary	11	11	11	10	21	45	7	10	9	7	16	54
644	Sakshi Balram Sonwane	AB	8	4	8	12	38	AB	4	4	7	11	26
645	Samiksha Rajkumar Kosare	11	12	12	9	21	46	8	7	8	7	15	46
646	Samistha Navin Shukla	11	12	12	9	21	43	7	8	8	7	15	47
647	Sejal Guntant Kshirsagar	8	8	8	8	16	33	5	4	5	7	12	30
648	Sejal Sujit Banode	14	12	13	10	23	51	8	8	8	7	15	45
649	Shashank Prakash Barlawar	9	8	9	8	17	39	6	4	5	7	12	33
650	Shital Ratnakar Kalambe	13	13	13	10	23	48	11	9	10	7	17	52
651	Shraddha Nandlal Uike	10	10	10	9	19	38	6	4	5	8	13	29
652	Simran Premnath Shedame	10	9	10	10	20	44	9	9	9	9	18	35
653	Swaraj Rajesh Patil	8	7	8	8	16	25	5	7	6	7	13	19

