



VAAGDEVI COLLEGE OF PHARMACY

(Approved by AICTE & PCI, New Delhi & affiliated to Kakatiya University, Warangal, T.S)
Ramnagar Dist. Hanumakonda- 506001, (T.S)

Direct and Indirect Assessment methods to show attainment of the POs

I. Tool for direct Assessment

- a. First and second sessional Examinations
- b. Assignments
- c. Laboratory Internal examination (Skill Test)
- d. Seminars
- e. Industrial Tours
- f. Major Projects
- g. Training and Workshops
- h. Quiz

II. Tool for Indirect Assessment

- a. End semester Examinations
- b. Exit Survey
- c. Course end Survey
- d. Faculty Survey
- e. Alumni Survey
- f. Employer Survey

Program Outcome Attainment:

Program outcome attainment is done through Direct Attainment method and indirect attainment method. Both Direct and Indirect Assessment tools are used for evaluation of PO's for the overall attainment. 70% and 30% weightages are given through Direct and Indirect Assessment respectively.

Direct Attainment of PO:

PO attainment through direct assessment is depicted in table it highlights the average attainment of PO from I year to IV year of B. Pharmacy and Pharm. D I to V years from table 2 to table 10 respectively.



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Indirect Attainment of PO:

The Assessment methods used for indirect attainment of POs are:

- **Program Exit Survey:** The survey is taken in the last semester /year of the program by the student of the final year.
- **Alumni Survey:** Alumni, Particularly the student who has completed academic year. Feedback is taken with reference to the achievement of PO's.
- **Employer Survey:** A written Feedback is taken from the Industries for the performance of the students, thus who has undergone summer training and internship in the industries as well as who got jobs in the industries.
- **Course end Survey (Student Feedback):** This Survey is taken by each student for individual subject with reference to their course outcomes at the end of every academic year.

Hence these results of Direct and Indirect assessments are used to assess the attainment of POs. The attainment level is calculated by considering 70% of Direct attainment plus 30% of Indirect assessment.

Total PO Attainment = (70% of DA)+(30% of IA)

***DA=Direct Assessment**

***IA= Indirect Assessment**



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Table1. Attainment of B.Pharmacy Ist year

Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
BP101T	3		3			2.4		2.4	3		3
BP102T	3		1.2	1.8		2.4		1.8	2.4		1.8
BP103T	3	1.2	2.4	1.2	1.2	1.8	1.2	0.6	1.2	0.6	1.8
BP104T	2		2		0.4	2	2		2	0.4	2
BP105T	3	1.2	0.6	3	1.8			3			3
BP106MT	3	3	3		0.6	0.6	0.6			0.6	3
BP107P	1.8	1.8	1.8	1.8					1.8		1.8
BP108P	1.2	0.6	0.6		0.6	1.2		0.6	1.2		0.6
BP109P	1.2	0.6			1.2	0.6			0.6		0.6
BP110P	1.2	1.2	1.2	0.6		1.2		1.2	1.2	1.2	1.2
BP111P	1.2	0.6	1.2		0.6	1.2		0.6	1.2		0.6
BP201T	3		3			3	3	3	3		3
BP202T	3		2.4	1.8		1.2		1.2		1.2	2.4
BP203T	3	2.4	1.8	1.8	1.2	1.8		1.8	1.2	1.2	1.8
BP204T	3		3			3	3	3	3		3
BP205T	3	2.4	1.8	1.8	1.2	0.6	0.6	1.8	1.2	1.2	1.8
BP206T	1.2	1.2			0.6	1.2			1.2		1.2
BP207P	1.8	1.8	1.2							0.6	1.2
BP208P	1.4	0.6		0.6		1.4		1.4		0.8	0.6
BP209P	1.2	1.2	0.6	0.6		1.2		0.6	0.6	0.6	1.2
BP210P	3		2.4	1.8					1.8	1.8	1.2





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Table2. Attainment of B.Pharmacy II year

Course Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
BP301T	3	2.4	3	3		1.8		0.6	1.8	1.2	3
BP302T	3	2.4	2.4	2.4	1.2	3	2.4	2.4	3	3	3
BP303T	3	3				3	3	2.4	3		3
BP304T	3	1.2	1.2							1.8	2.4
BP305P	1.2	1.2	1.2	1.2		1.2					1.2
BP306P	1.2	0.6	0.6	0.6	0.6	1.2	0.6	0.6	1.2	1.2	0.6
BP307P	1.2	1.2	1.2		1.2			1.8		1.2	1.2
BP308P	3	0.6	3	1.8			1.8		3	2.4	1.2
BP401T	3	2.4	1.8	2.4	1.2	1.2	1.2		1.8	1.2	2.4
BP402T	3		3			3	3	3	3		3
BP403T	3		3			3		2.4	3		3
BP404T	3	1.8	1.8	2.4	1.2	1.2		1.8	1.8		1.8
BP405T	1.2	0.6	1.2	1.2			0.6				
BP406P	1.2	1.2	1.2		1.2			1.2	1.2	1.2	1.2
BP407P	1.8	0.6	0.6	1.2		0.6	1.2		0.6		1.2
BP408P	1.2	1.2	0.6	0.6	0.6					1.2	0.6
BP409P	3	0.6	1.2	2.4			0.6	0.6		0.6	1.2



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Table3. Attainment of B.Pharmacy III year

Course code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
BP501T	3	3	3	3		3	3		3		3
BP502T	3		3			3	2.4	0.6	3		3
BP503T	3	1.2	1.8	1.8	1.2	1.8	1.2	0.6	1.2		1.8
BP504T	3	1.8	1.8	1.8	1.8	3	3	2.4	3	3	2.4
BP505T	3	3	3	3		3	3		3	3	3
BP506P	1.2	1.2	0.6	0.6		1.2		1.2	1.2		1.2
BP507P	1.2	0.6	0.6			0.6		0.6	0.6		0.6
BP508P	1.2	0.6	0.6			0.6		0.6	0.6		0.6
BP601T	3	1.8	1.2	3			0.6	0.6			0.6
BP602T	3					3	3	1.2	3		1.8
BP603T	3	1.8	1.8	2.4	1.8	1.2	1.8	1.8	1.8	1.8	2.4
BP604T	3	2.4	1.8	1.8	1.8	1.8	2.4	1.8	2.4	2.4	2.4
BP605T	2	1	1.2	0.8	1	1.6	1.8	0.6	1.4	0.4	1.4
BP606T	1.2	1.2	1.2	1.2	0.6		0.6	0.6		0.6	
BP607P	1.8	1.8	1.8			1.2	1.8		1.8		1.8
BP608P	1.2	1.2	0.6			0.6		0.6	1.2		0.6
BP609P	3	2.4	1.8	1.8	1.2	2.4		3	1.8	1.8	0.6



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Attainment of B.Pharmacy IV year

Course code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
BP701T	3	1.8	1.8	1.8	1.2	2.4		3	1.8	1.8	0.6
BP702T	3	1.8	1.8	2.4	1.2	1.8		1.2	1.2	1.2	1.8
BP703T	3	1.8	2.4	1.8	0.6	2.4		3	1.8	1.2	0.6
BP704T	2.6	1.8	1.6	2	1.6	1.6		1.6	0.4	1.6	1
BP705P	1.2	1.2	0.6			1.2		0.6	1.2		0.6
BP706PS	3	3	3	3	3	3	3	3	3	3	3
BP801T	3	1.8	1.2	1.2	1.2	2.4		3	1.8	1.8	1.2
BP802T	3	1.8	0.6	1.2	1.2	2.4		3	1.8	1.2	1.2
BP806ET	3	1.8	1.8	1.8	1.2	2.4		3	1.8	1.8	1.2
BP810ET	3	1.8	1.2	2.4	1.2	2.4		3	1.8	1.8	1.2
BP813PW	3	3	3	3	3	3	3	3	3	3	3




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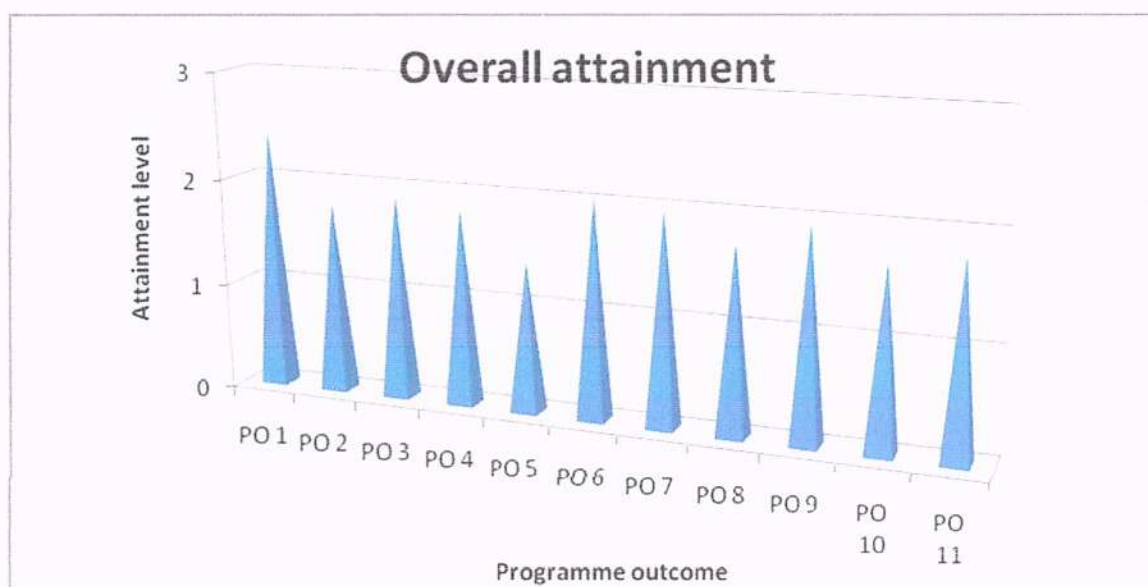



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Table 5 & Fig 1. Mapping of overall attainment for B. Pharmacy course 2017-2021

Programme outcome	PO 1	POP 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Attainment level	2.44	1.81	1.92	1.85	1.41	2.06	2	1.76	1.99	1.71	1.83




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Table 6. Pharm. D I year attainment

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharm.D I.1	3	1.2	3	0.6		1.2	1.2	2.4	2.4	0.6	2.4
Pharm.D I.2	1.8	0.6	1.4	0.6	0.4	1	0.6	1.2	1.4	0.6	1.4
Pharm.D I.3	2.2	0.6	0.8	1.6	0.8	1	0.6	1.4	1.8	0.6	1.8
Pharm.D I.4	2	0.6	1	1	0.6	0.6	0.6	1	1.4	0.6	1.6
Pharm.D I.5	3	0.6	1.2	0.6		1.8	1.2	0.6	3	1.2	1.8
Pharm.D I.6	3	1.2	3	0.6	0.6	1.8	1.2	2.4	1.8	1.8	1.8
Pharm.D I.1P	1.2		1.2	1.2							1.2
Pharm.D I.2P	1.2		1.2	0.6	0.6			0.6		0.6	1.2
Pharm.D I.3P	1.2		1.2	1.2		0.6			0.6		1.2
Pharm.D I.4P	2.25	1.5	2.25	1.5		1.5	1.5	1.5	2.25		1.5
Pharm.D I.5P	1.5	1.5		1.5		0.75		1.5	0.75		1.5



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Table 7. Pharm.D II year attainment

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharm.D II.1	3	0.6	2.4	1.2	1.8	1.8	1.2	2.4	2.4	1.8	1.8
Pharm.D II.2	3	1.8	0.6	1.8	1.8	1.8	1.2	1.8	2.4	0.6	2.4
Pharm.D II.3	3	1.2	1.8	1.2	0.6	1.8	0.6	1.8	1.2	1.2	1.8
Pharm.D II.4	3	1.2	3	0.6	1.2	1.2	1.2	1.8	1.8	1.8	2.4
Pharm.D II.5	3	2	2.5	2	1.5	3	3	2	2.5	2.5	2
Pharm.D II.6	3	1.2	1.8	1.2	1.8	1.2	1.2	1.8	1.8	1.8	1.8
Pharm.D II.1P	1.2		1.2	1.2		0.6		0.6	0.6		1.2
Pharm.D II.2P	2.25	1.5	1.5	1.5		1.5	1.5	1.5	2.25	0.75	1.5
Pharm.D II.3P	1.25	1.25		1.25	0.5	0.75		0.75	0.75	0.5	1.25

Table 8. Pharm.D III year attainment

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharm.D III.1	3	1.8	1.2	2.4	2.4	2.4	1.8	1.8	3	1.2	2.4
Pharm.D III.2	3	1.5	1.5	1.5	1.5	3	3	2.25	3	3	2.25
Pharm.D III.3	3	1.2	2.4	1.8	1.8	1.8	1.2	1.8	1.8	1.8	2.4
Pharm.D III.4	3	0.5	0.5	0.5	1	2.5	2	0.5	3	1	1
Pharm.D III.5	2.33	1.5	1.17	1.17	2.17	1.33	1.17	1.67	1.67	0.67	1.67
Pharm.D III.6	3	2.25	3	2.25		2.25	2.25	1.5	2.25	3	3
Pharm.D III.1P	1.2	0.6	1.2	0.6		1.2	0.6	0.6	1.2	1.2	0.6
Pharm.D III.2P	1.2		1.2		0.6	1.2	0.6	0.6	0.6		0.6
Pharm.D III.3P	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	0.6	0.6
Pharm.D III.4P	1.2	0.6	1.2	0.6	0.6	0.6	1.2	0.6	1.2		1.2
Pharm.D III.5P	2.25	1.5	2.25	1.5		1.5	2.25	1.5	2.25		1.5




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Table 9. Pharm.D IV&V year attainment

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharm.D IV.1	3	2.5	1.5	1.5	1	1.5	2	1.5	2.5	1	2
Pharm.D IV.2	3	3	1.2	3	1.2	2.4	3	2.4	3	3	3
Pharm.D IV.3	3	1.2	1.2	2.4	1.2	1.2	1.2	1.8	2.4	1.2	2.4
Pharm.D IV.4	3	1.2	1.8	1.8	1.2	1.2	1.2	1.8	1.8	1.2	1.8
Pharm.D IV.5	3	2.25	1.5	2.25		3	1.5	3	3		2.25
Pharm.D IV.6	2.83	2.33	1.33	1.33	1	1	1.5	1.5	2	0.83	1.83
Pharm.D IV.1P	3	3	1.2	3	1.2	2.4	3	2.4	3	3	3
Pharm.D IV.2P	1.2	0.6	0.6		0.6	0.6	0.6	0.6	1.2		1.2
Pharm.D IV.3P	2.25	3	1.5	3		2.25	0.75	2.25	3	0.75	
Pharm.D V.1	3	0.6	1.8	2.4	1.8	1.8	1.8	1.2	2.4	1.8	1.8
Pharm.D V.2	3	1	2.5	2.5	1	3	3	2.5	3	1	3
Pharm.D V.3	3	3	3	3		3	3		3	3	



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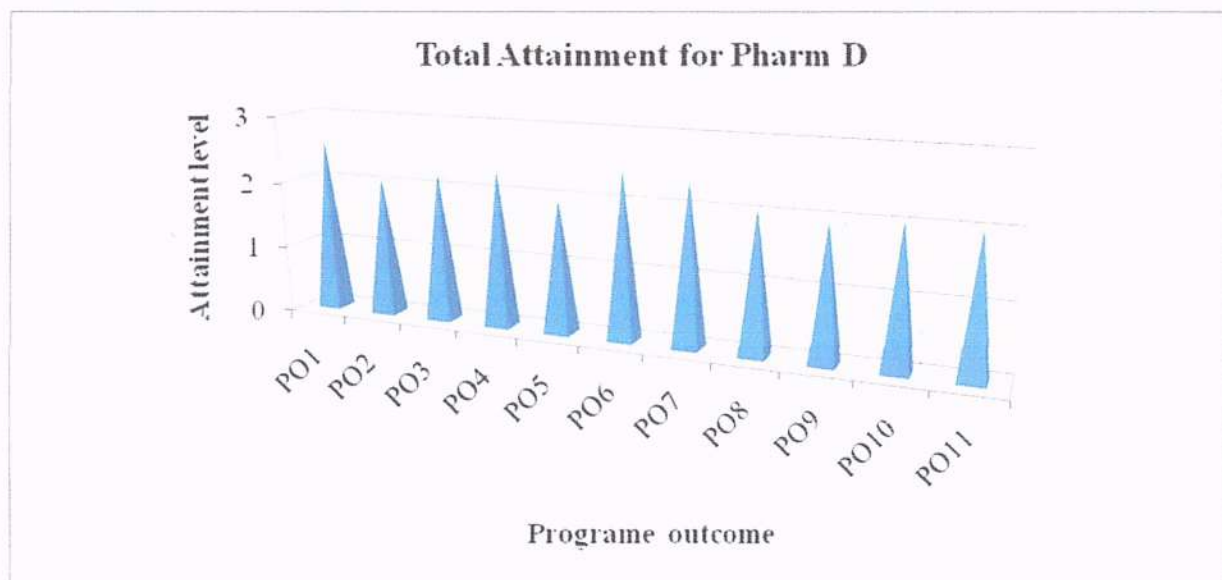


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Tale 10 & Fig2. Mapping Total attainment of Pharm. D course 2016-2021

Program outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Total Attainmenr	2.63	2.1	2.24	2.34	2	2.48	2.4	2.1	2	2.1	2.06



To Measure the overall attainment of Program, it is necessary to have a target value or Assumed value which will indicate whether the POs have achieved hence we consider the assumed attainment level as 2 and thus all the program outcomes for B. Pharmacy and Pharm. D program are attained.




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