



PROCEDURE FOR CALCULATING CO ATTAINMENT

Attainment of POs and COs are evaluated

Course Outcomes (COs) are well defined and are prepared for each course by respective subject teacher. The level of attainment for COs for both internal and University examination is set for B. Pharm, M. Pharm & Pharm D course on the scale of 1 to 3 based on marks scored by students.

The final CO attainment is calculated by making correlation between attainment through internal examination and continuous assessment with 20 % weightage and external exam with 80 % weightage.

The level of POs attainment is measured by methods like direct and indirect tools. By above methods Institution ensures attainment of Cos and POs through well-defined assessment criteria.

BLOOM'S TAXONOMY

Bloom's taxonomy of thinking and learning illustrates forms of thinking, in ascending order of complexity, from lower-order thinking skills (LOTS) to higher-order thinking skills (HOTS). It begins with remembering and ends with creating. This is used by lecturers to set learning outcomes and assessment criteria for a course or module

The knowledge about a subject alone, like having access to a range of information, or 'facts', is at the simplest or lowest level. Higher and more complex levels include the ability to analyze, synthesise and evaluate information by comparing and contrasting different points of view, sets of information or experiences. This might involve them to make predictions.

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Bloom's Taxonomy



Course outcomes:


The course outcomes shall provide chance for students to prove the knowledge, skills and expertise learned from the specific course. On completion of these courses the students will be able to gain knowledge and practical skills. The course outcomes are thus directly measured, and are related to the program outcomes. Therefore, if the course outcomes are achieved, the program outcomes are also achieved.

Process of preparation of course outcomes:

The course objectives of all courses are mentioned in curriculum prescribed by the University. All course outcomes are developed using Bloom's taxonomy and consequently assignments, internal exam and practical are aligned to CO addressing the level of Bloom's taxonomy. Each faculty has designed COs based on the number of units in syllabus ranging between 4-8 .

Methods of measuring the course outcomes:

The course outcomes are assessed by the performance of students in the internal exams, continuous assessment and external exam. Internal exam and continuous assessment are planned in such a way that they cover all the course outcomes.


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CO -ATTAINMENT :

1. DIRECCT CO:

CO Attainment based on University exam :

For every theory course, 50% is taken as the bench-mark value. Number of students scoring more than the bench-mark value in each subject is used to compute the attainment level as defined below:

% of students \geq bench mark	Attainment level
60	1
70	2
80	3

CO Attainment based on internal exam:

For every subject 50% is taken as the bench-mark value. Number of students scoring more than the bench-mark value in each subject is used to compute the attainment level as defined below:

% students \geq bench mark	Attainment level
60	1
70	2
80	3

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2. INDIRECT CO :

CO attainment based on Course end Survey :

The students feed back was taken after completion of each semester related to faculty performance of each course in that semester. It is evaluated based on parameters like excellent, good and poor and considered as level 3, 2 and 1 respectively .

In indirect CO assesement 20% of course end survey is considered in calculation of CO attainment.

OVERALL “CO” ATTAINMENT :

Based on two steps :

Step 1 : Direct CO is assessed based on respective subject examinations Internal sessional marks (from it 20% is considered) and University marks (from it 80% is considered).

From step 1, 80% is considered in calculation of overall CO attainment.

Step 2 : Step 1 is summed with Indirect CO (20% of Course end survey).

$$\boxed{\text{Overall CO attainment} = 80\% \text{ of Direct CO} + 20\% \text{ of Indirect CO}}$$

Overall CO is also called as FINAL CO Attainment.

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