

2.6.2 Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution

Response:

Procedure for attaining COs, POs and PEOs.

◦ Evaluation of Course Outcome

A) Direct Assessment: Two major components :

1. Internal Evaluation 1 & 2 and Continuous Evaluation (CE) (Assignments, Quizzes, Class Tests, Laboratory performance, Projects, Presentations)
2. End Semester Examination (ESE).

Setting targets for performance attainment: The measurement is through a direct assessment method and is based on the attainment of 60% marks or 6gp on a 10 point grade scale) or more as the threshold.

Level 3: > 60% of students scoring more than 6 GP

Level 2: 40% to 60% of students scoring more than 6 GP

Level 1: < 40% of students scoring more than 6 GP

Note: If target level of attainment is achieved in current year, threshold is increased for next year.

Moreover, different thresholds may be set for different level as well as differences courses.

B) Indirect Assessment: Based on course feedback performed at the end of the semester.

Indirect assessment of COs is performed using course feedback conducted at the end of the semester. Students are asked to rate course on a scale of 5. The components of COs attainment are set based on the attainment of a threshold of 4 points or more.

Level 3: > 4 score

Level 2: Between 3 to 4 score

Level 1: < 3

Target Attainment Calculation

Direct Attainment (DA) = External Assessment+ Internal Assessment

Indirect Attainment (IA) = Course Feedback

Total Attainment = DA * 0.8 + IA * 0.2

Target Attainment Level = 2.4 (80% of highest level 3)

CO-PO Mapping:

Each Course outcome will be mapped to one or more suitable POs

Procedure for attainment of POs:

Program outcomes will be attained through direct and indirect methods.

Direct Attainment: We will consider all the courses which are mapped to a particular PO. Then the direct attainment value will be calculated based on the following formula:

Direct PO Attainment = Sum of the average attainment level of course outcomes (COi) mapped to a POi / Total number of courses

Indirect Attainment: In this method, we consider the feedback of Recruiters, students, alumni and parents on the framed questionnaires.

Final PO attainment= 80% of Direct attainment + 20% Indirect attainment

The following table shows the five target levels:

Level of PO attainment range

Level	PO Attainment range
1 (Poor)	$0.5 \leq \text{PO attainment value} < 1.5$
2 (Average)	$1.5 \leq \text{PO attainment value} < 2$
3 (Good)	$2 \leq \text{PO attainment value} < 2.5$
4 (Very Good)	$2.5 \leq \text{PO attainment value} < 2.75$
5 (Excellent)	$2.75 \leq \text{PO attainment value} \leq 3$

Target levels for attainment of POs/PEOs will be set based on the performance of the previous year.

Same procedure will be used for obtaining the attainment of PEOs.

Procedure for attainment of PEOs:

We map POs with suitable PEOs.