



THE COCHIN COLLEGE

Koovapadam, Kochi-2

Affiliated To Mahatma Gandhi University

Re-accredited by NAAC With B+ Grade



Fourth Cycle
NAAC Accreditation 2024

Criterion 2 Teaching-Learning and Evaluation

2.6 - Student Performance and Learning Outcomes

Metric No. 2.6.2

Attainment of POs and COs are evaluated.

PO and CO Attainment

Submitted to



National Assessment and Accreditation Council



THE COCHIN COLLEGE

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Declaration on Principal

This is to declare that the following document explains the process of assessing CO and PO in the Cochin College.

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Assessment of Course Outcomes(COs) and Programme Outcomes (POs)

The assessment of Course Outcomes (COs) in Outcome-Based Education (OBE) involves a structured approach to ensure that students achieve the learning objectives of a course. This process begins by identifying specific COs that the examination is intended to assess, followed by mapping each question to the relevant CO. Students' responses are then evaluated based on predetermined rubrics, and the marks for each question are recorded in relation to the corresponding CO. The attainment of each CO is measured as a percentage, reflecting the student's proficiency in that area. This percentage is categorized on a 3-point scale: high (above 60 percent), medium (40-60 percent), and low (below 40 per cent). The results are analyzed to identify trends and learning gaps, and feedback is provided to students to help them understand their strengths and areas for improvement. This comprehensive assessment approach ensures that students are evaluated not only on their ability to recall information but also on their understanding, application, analysis, and evaluation of the material.

1 Assessment of Course Outcomes (COs) and Programme Outcome(PO)

Assessing Course Outcomes (COs) is a fundamental component of Outcome-Based Education (OBE). This process ensures that students are meeting the learning objectives defined for a course. The following procedure is followed by the college to assess COs based on OBE mapped internal examination question paper, allowing for detailed analysis and feedback.

Step 1: Mapping Questions to Course Outcomes

1. **Identification of Course Outcomes (COs):** The first step is identifying the specific Course Outcomes that the examination is designed to assess. These outcomes represent the key skills, knowledge, and abilities that students should acquire through the course.
2. **Mapping Questions to COs:** Each question in the question paper is mapped to the relevant CO(s) that it is intended to assess. For example:
 - A question designed to evaluate a student's understanding of basic concepts might be linked to a CO focused on foundational knowledge.
 - Another question may assess analytical skills and therefore be mapped to a CO related to critical thinking and problem-solving.





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2 Step 2: Evaluation of Student Responses

1. **Grading Individual Questions:** Next steps to evaluate each student's responses based on predetermined rubrics or grading criteria. The focus is given to how well the student's answers reflect the learning objectives associated with each CO.
2. **Recording Marks by CO:** After grading, the marks for each question is recorded in the grade sheet in a way that associates them with the relevant CO. This facilitates later analysis of how well students are achieving each outcome.

3 Step 3: Calculation of CO Achievement for Each Student

1. **Summation of CO-Specific Marks:** For each student, sum the marks obtained in questions mapped to each specific CO. This will provide a total score for each CO.
2. **Calculation of CO Achievement Percentage:** To quantify a student's achievement for each CO, the percentage of marks they obtained out of the total possible marks for that CO is calculated:

$$\text{CO Achievement Percentage} = \left(\frac{\text{Total Marks for CO}}{\text{Maximum Possible Marks for CO}} \right) \times 100$$

This percentage reflects the student's proficiency in the area covered by the CO.

3.1 Example Calculation of CO Achievement

An example of assessment of CO through multiple questions is given below:

Questions Linked to CO:

Several questions may collectively assess a single CO, such as critical thinking.

Student Performance:

If a student scores a total of 16 marks out of a possible 25 for questions related to this CO, their achievement percentage would be:

$$\text{CO Achievement} = \left(\frac{16}{25} \right) \times 100 = 64\%$$





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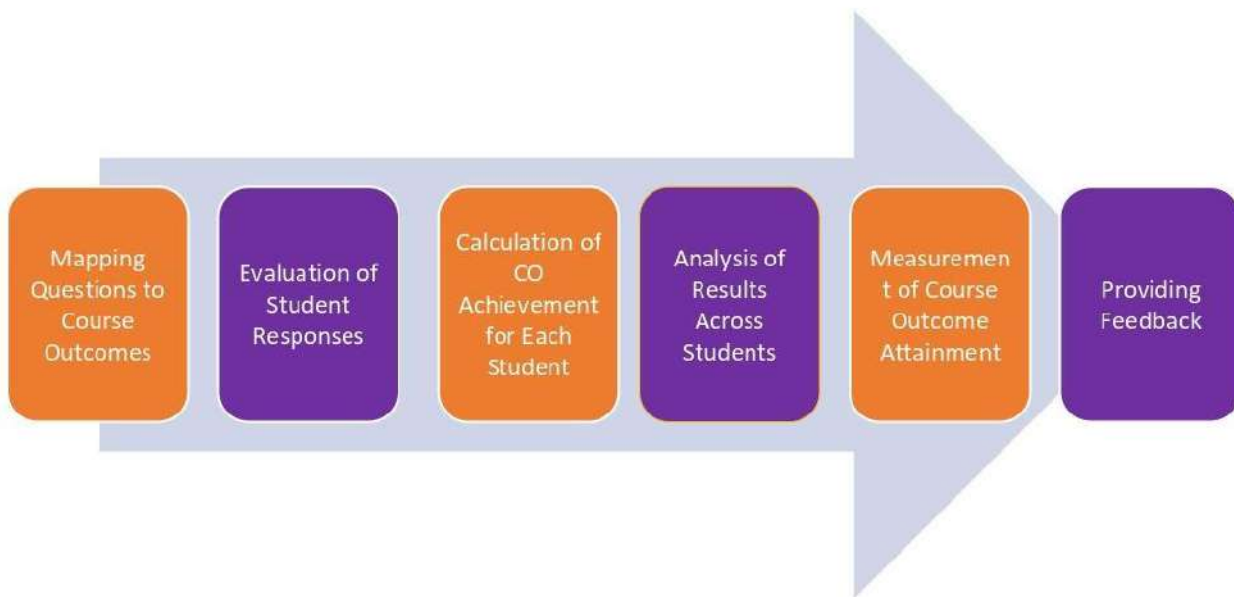
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This percentage provides a clear measure of the student's proficiency in the area covered by that CO.

4 Step 4: Analysis of Results Across Students

1. **Aggregate Analysis of CO Performance:** After calculating the CO percentages for all students, aggregate the results to get an overall view of class performance. This analysis helps identify trends and areas where students are excelling or facing challenges.
2. **Identification of Learning Gaps:** If certain COs show consistently low achievement across the class, this may indicate areas where instructional methods need adjustment or where additional student support is necessary.



5 Step 5: Course Outcome Attainment Measurement

The attainment of Course Outcomes (COs) for each student is measured on a 3-point scale, which categorizes their performance based on the percentage of marks achieved in relation to each CO. The scale is defined as follows:

- **3 (High):** Attainment percentage is above 60%.
- **2 (Medium):** Attainment percentage is between 40% and 60%.
- **1 (Low):** Attainment percentage is below 40%.





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- Class-Level Feedback:** Offer feedback at the class level, highlighting common strengths and areas where collective improvement is needed.

This assessment is derived from both direct and indirect assessment tools. Direct assessment tools may include examinations, quizzes, assignments, and practical tests, while indirect assessment tools may involve surveys, self-assessments, and feedback from peers and instructors.

6 Attainment Measurement Scale

CO Attainment Level	Percentage Range	Scale	Assessment Tools
High	Above 60%	3	Direct and Indirect Assessments
Medium	Between 40% and 60%	2	Direct and Indirect Assessments
Low	Below 40%	1	Direct and Indirect Assessments

7 Explanation

- High (3):** Represents strong attainment of the CO, where the student's performance exceeds 60% of the possible marks.
- Medium (2):** Represents moderate attainment of the CO, where the student's performance falls between 40% and 60%.
- Low (1):** Represents poor attainment of the CO, where the student's performance is below 40%.

This scale provides a standardized way to assess and report the extent to which students have achieved the Course Outcomes, facilitating easier analysis and interpretation of results across different assessment tools.

8 Step 6: Providing Feedback

- Individual Feedback to Students:** Provide detailed feedback to each student on their performance relative to each CO. This personalized feedback helps students understand their strengths and areas for improvement.

