



Criteria 2.6. Student Performance and Learning Outcomes

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Record of Tools Required for Calculation of Attainment



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CO PO Attainment Tool

These are measurable instruments used to evaluate students' performance against predefined learning outcomes.

A. Direct Assessment Tools

1. Continuous Internal Assessment (CIA):

- o *Description:* Includes assignments, presentation, quizzes and conducted midterm exam once in semester
- o *Purpose:* Helps identify individual student learning gaps and overall progress.
- o *Example Tool:*
 - Rubrics for sessional exam evaluation.
 - Marksheets for assignments and sessional exam.

2. End-Term Examination:

- o *Description:* Comprehensive exams that evaluate students' grasp of the entire syllabus.
- o *Purpose:* Contributes to final CO attainment by testing higher-order cognitive skills.
- o *Example Tool:* Detailed answer evaluation matrices mapped to COs.
 - o Questions designed to assess basic understanding and foundational knowledge.
 - o Inclusion of analytical or case-based questions.



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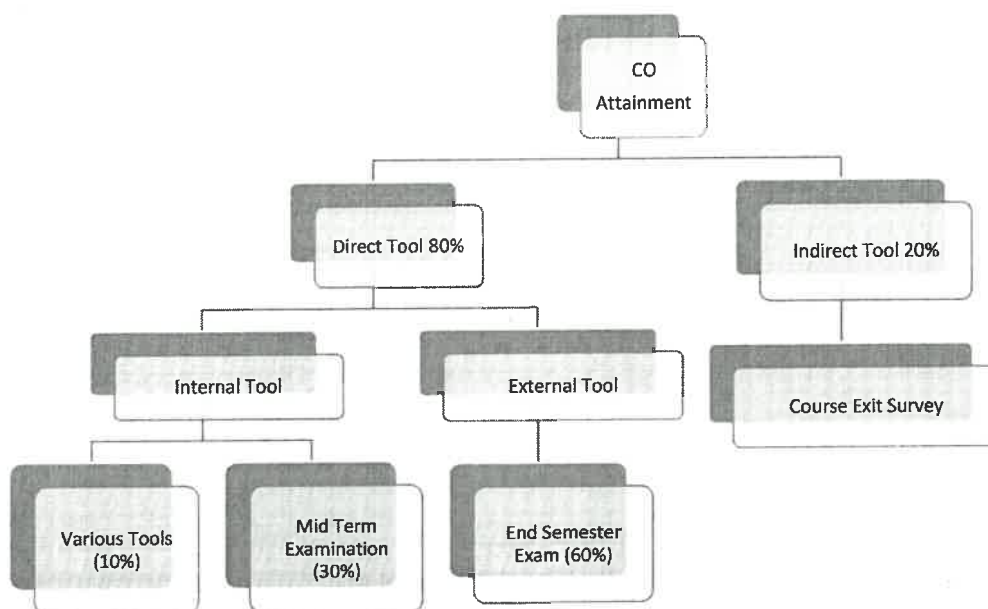


Figure 1: List of Course Assessment tools

B. Indirect Assessment Tools

These tools measure students' overall performance in relation to the learning outcomes.

1. Course Exit Surveys:

- o *Description:* Faculty mark this survey on the basis of CIA (Continuous internal assessment, attendance, class conduct and event participation).
- o *Purpose:* To assess the extent to which students have achieved the intended learning outcomes and to gather insights for improving course content and delivery
- o *Example Tool:* Continuous performance evaluation of student.

S. No.	Assessment tool	Sub category	Methodology	Weightage	Overall Percentage
1	Direct	Internal	Various tools <ul style="list-style-type: none"> Assignments/ Group projects or Presentations/ Quiz 	10%	80%
			Mid Semester Exams <ul style="list-style-type: none"> Theory exam Practical exam (where applicable) 	15% 15%	
			End Semester exam <ul style="list-style-type: none"> Theory Practical (wherever applicable) 	35% 25%	
3	Indirect	Course Exit Survey			20%



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3. Evaluation and Attainment Analysis

The attainment of learning outcomes is calculated through a weighted combination of direct and indirect assessments:

Formula for Attainment:

Total Attainment = (Direct Attainment Weightage) × (Direct Assessment Average) + (Indirect Attainment Weightage) × (Indirect Assessment Average)

4. Tools for Advanced Learners

- Encouragement for completing certificate courses for MOOCs
- Encouragement for participating in competitions/Seminars/conferences etc
- Challenging assignments for increased engagement Application-based assignments requiring critical thinking.

5. Tools for Slow Learners

- Remedial classes
- Peer tutoring groups adopted for better learning
- Motivation and personal attention by faculty mentor.

Conclusion:

The implementation of CO-PO attainment tools, complemented by robust technological integration and faculty training ensures an effective evaluation of learning outcomes. Direct and indirect assessments provide a balanced approach, accommodating the diverse needs of slow and advanced learners. By leveraging data-driven insights and stakeholder feedback, institutions can continuously enhance the alignment of course outcomes with program objectives, ultimately driving student success and institutional excellence.



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