

ATTAINMENT OF COs AND POs

The assessment of course outcomes and program outcomes is a critical aspect of educational evaluation, particularly under the curriculum set forth by The Tamil Nadu Dr. M.G.R. Medical University, Chennai. Two primary categories of assessment tools are utilized: Direct and Indirect.

Attainment of COs

Direct assessment tools focus on evaluating students' understanding of fundamental concepts, analytical thinking, planning abilities, and expression of acquired knowledge. Internal assessments involve periodic exams, with three tests for theory and practical components in non-semester courses, and two tests for semester examinations. These exams cover all syllabus portions and contribute 40% to the overall assessment. Conversely, university exams assess students' grasp of fundamental concepts, planning abilities, and practical skills through descriptive questions. Constituting 60% of the direct assessment, these exams are conducted by the university.

$$60\% \text{ of } 3 + 40\% \text{ of } 3 = 1.8 + 1.2 = 3$$

Indirect assessment tools provide additional perspectives on course outcomes. Course-exit surveys measure the quality of courses and their outcomes upon completion of each course.

The attainment of course outcomes is recorded to establish attainment levels, wherein measuring outcomes achieved through university examinations entails setting targets based on the percentage of students exceeding the university average marks (50%) or a predetermined attainment level.

Attainment levels are defined accordingly:

Attainment Level 1 if students exceed 50% of marks, Attainment Level 2 if they exceed 60%, and Attainment Level 3 if they exceed 70%. Actual percentages of students achieving these marks determine attainment.

If targets are met, all course outcomes for the year are considered attained, prompting the setting of higher targets for subsequent years. If targets are not met, action plans are devised to achieve them in subsequent years.

The assessment of course outcomes involve a comprehensive approach encompassing various assessment tools. By aligning assessment practices with curriculum objectives and setting clear attainment targets, educational institutions ensure the holistic development of students and continuous enhancement of teaching and learning processes.

Attainment of POs

Indirect assessment involve student exit surveys (Graduate exit surveys/Program exit surveys) which are conducted at the end of the program to evaluate knowledge gained and its implications for personal and professional growth.

$$\text{PO Attainment} = \text{COA} \times M/3$$

where, COA – Course outcome attainment

M – Average mapping

Each course to be first mapped with their respective POs and finally, the average of each POs to be calculated.

Method	Assessment tool	Assessment cycle	Percentage contribution				
Direct	University Exam	End of the year	60%	80%	100%		
	Internal Assessment	College level exams	40%				
Indirect	Course exit survey	At the end of every year	20%				
	Student exit survey	At the end of the Program					