



Procedure for Attainment of Course Outcomes

The course outcomes of each core course are mapped to the Program Outcomes with a level of emphasis being either strongly correlated or moderately correlated. The level of emphasis for an outcome used for assessing it in each course is decided by the weightage obtained. The tools and process involved in the assessment of course outcomes is in detail described below.

Direct Assessment Tools for Theory courses

The impact of course content delivered on attainment of course outcome is assessed by the following assessment tools

- *Internal Examinations (Mid term examinations)*
- *Assignments*

The questions in the internal examination question paper, assignment sheets and end examination question paper are framed in line with the course outcomes and attainment is assessed from the answer scripts.

Direct Assessment tools for Laboratory courses

- *Day to day evaluation*
- *Internal examination*

Day to day evaluation is a continuous assessment tool. In each lab session, every student performance in conducting the experiment, recording the data and doing further calculations are observed and CO attainment is assessed. In internal lab examinations, evaluation sheets are used to assess the attainment of course outcomes.

Direct assessment tools for Project work

- *Review Seminars by PRC*
- *External Examiner evaluation*

The continuous assessment tools for the project work are from project review seminars conducted by Project Review Committee. The reviews from Project Evaluation Sheet are considered for the CO assessment. The External examiner assesses the project work carried out in the Viva voce examination

Direct assessment tools for Comprehensive Viva Voice

- *Viva Voice Examination*

The student's technical, analytical and communication skills are assessed for CO attainment. The assessment is carried out by HOD and two or more senior faculty.

Indirect Assessment Tools

- **Course End Survey :** **At the end of each course**

The course end survey is collected from the students at the end of each theory and laboratory course by the concerned faculty and the CO attainment is calculated.