

2.6.2 Attainment of Program Outcomes, Program Specific Outcomes and Course Outcomes are evaluated by the institution

Attainment of Program Outcomes, Program Specific Outcomes and Course Outcomes

- Step1: The student's individual subject marks are been entered.
- Step2: The CO attainment calculation is calculated based on 20% weightage of internal marks & 80% weightage of university marks.
- Step3: The individual subject POs and PSOs attainment level are entered in the table.
- Step4: CO attainment value is calculated with 60% of weightage.
- Step5: Indirect Assessment value is calculated with 20% of weightage.
- Step6: Co –Curricular and Extra – Curricular activity values are calculated with 20% of weightage
- Step5: Finally PO attainment value is calculated.
- Step6: The Graph is plotted for the attainment of POs & PSOs.

The assessment process has two following methods.

- Direct Assessment Method
- Indirect Assessment Method

Direct Assessment Method:

In the Direct Assessment Method, the following factors are used.

For Theory Courses:

- Continuous Internal Assessment (CIA) Marks (CIA1, CIA2, CIA3).
- University Examination Marks

For laboratory courses:

- Record Marks
- Observation Marks
- Model Examination Marks
- University Examination Marks

Evaluation Procedure

Theory Courses

Direct Assessment Method: Continuous Internal Assessment

- Class average for each test is calculated and target for attainment level is set based on the class average.
- The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 60% of students secured more than 50% Marks

Attainment Level = 2, if 70% of students secured more than 50% Marks

Attainment Level = 3, if 80% of students secured more than 50% Marks

Direct Assessment Method: University Examination

The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 69% of students secured more than E grade

Attainment Level = 2, if 70% of students secured more than E grade

Attainment Level = 3, if 80% of students secured more than E grade

Overall CO attainment

$$\begin{aligned} \text{Attainment Level through Direct Assessment} &= (0.8 \times \text{Attainment level based on University Examination marks}) \\ &+ (0.2 \times \text{Attainment level based on Continuous Internal Assessment marks}) \end{aligned}$$

Practical Courses

Direct Assessment Method: Observation, Record, Model Marks

The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 69% of students secured more than 50% Marks.


Attainment Level = 2, if 70% of students secured more than 50% Marks.

Attainment Level = 3, if 80% of students secured more than 50% Marks.

Direct Assessment Method: University Examination

The attainment level and target levels of each course are fixed as follows:

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Attainment Level = 1, if 60% of students secured more than E grade

Attainment Level = 2, if 70% of students secured more than E grade

Attainment Level = 3, if 80% of students secured more than E grade

Overall CO attainment

$$\begin{aligned} \text{Attainment Level through Direct Assessment} &= (0.8 \times \text{Attainment level based on University Examination marks}) \\ &+ \\ &\quad (0.2 \times \text{Attainment level based on Continuous Internal Assessment marks}) \end{aligned}$$

Project Courses

Direct Assessment Method: Reviews, Demonstration

The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 60% of students secured more than 50% Marks

Attainment Level = 2, if 70% of students secured more than 50% Marks

Attainment Level = 3, if 80% of students secured more than 50% Marks

Direct Assessment Method: University Examination

The attainment level and target levels of each course are fixed as follows:

Attainment Level = 1, if upto 69% of students secured more than E grade

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Overall CO attainment

$$\begin{aligned} \text{Attainment Level through Direct Assessment} &= (0.8 \times \text{Attainment level based on University Examination marks}) \\ &+ \\ &\quad (0.2 \times \text{Attainment level based on Continuous Internal Assessment marks}) \end{aligned}$$

PO ATTAINMENT CALCULATION

$$\text{PO ATTAINMENT} = \frac{\text{CO VS PO MAPPING AVERAGE}}{\text{MAXIMUM ATTAINMENT VALUES}} * \text{FINAL CO ATTAINMENT FOR THE COURSE}$$

➤ Indirect Assessment Method

The Indirect Assessment Method for PO assessment is described as below:

- Student's Exit Survey Feedback

At the end of the semester, the feedback to assess the POs and PSOs is obtained from the students for courses through survey forms.

- Co-Curricular and Extra-Curricular Activities are considered to assess the PO and PSO attainment.

Expert Comments:

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

Four of our UG engineering programmes are accredited by NBA. Attainment of Program Outcomes, Program Specific Outcomes and Course Outcomes are evaluated by the institution as per the norms formulated and all the calculations are carried out effectively and corrective actions are initiated. Therefore, we request you to award full marks(4) for this criterion instead of 2 marks.

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