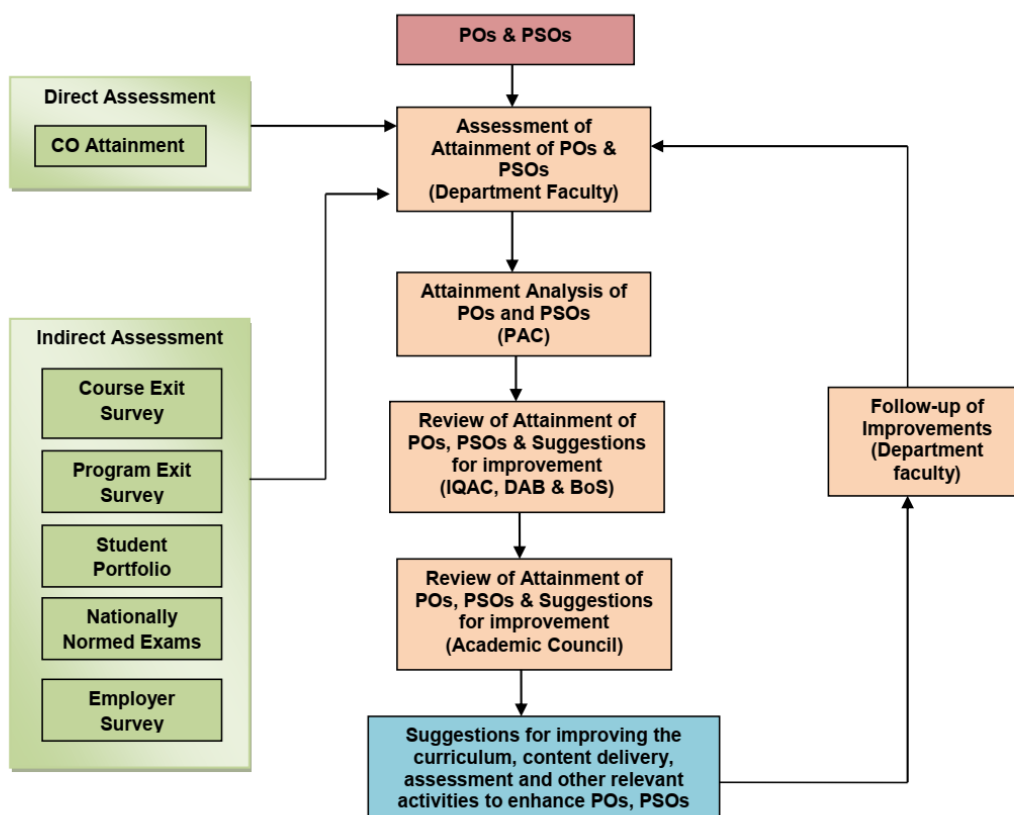




Process for Assessment of Attainment of Program Outcomes and Program Specific Outcomes

Assessment Tools and Processes used for the Assessment of Attainment of Program Outcomes and Program Specific Outcomes

- The assessment of attainment of Program Outcomes (POs) and Program Specific Outcomes (PSOs) is done based on the performance of students in the Direct Assessments and the Indirect Assessments. The direct assessment is based on course outcome attainment analysis report. The indirect assessment is the Exit survey form for the corresponding courses and program, student portfolio, Employer survey form and the performance of the students in Nationally Normed Exams.
- POs & PSOs attainment analysis is performed by the Programme Assessment Committee (PAC) and it reviews the suggestions given for improving the attainment.
- The review of POs & PSOs analysis is done by the Internal Quality Assurance Cell (IQAC), Department Advisory Board (DAB) and Board of Studies (BoS). The members of these forums also give further suggestions for improving the attainment.
- Finally, the Academic Council reviews the attainment analysis of POs & PSOs and suitable actions are initiated for improving the curriculum/Course content, content delivery, assessment and other related activities to enhance POs & PSOs attainments.



IQAC – Internal Quality Assurance Cell
PAC – Program Assessment Committee
DAB – Department Advisory Board
BoS –Board of Studies

Process for the Assessment of Attainment of POs and PSOs



Procedure for measuring attainment of Program Outcomes (POs) and Program Specific Outcomes (PSOs)

The tools that are used for the assessment of attainment of Program Outcomes (POs) and Program Specific Outcomes (PSOs) are:

Table 1. PO/PSO Assessment Tools

PO/PSO Assessment Tools	
Direct Assessment Tools	<ul style="list-style-type: none"> Course Outcome Attainment
Indirect Assessment Tool	<ul style="list-style-type: none"> Program Exit Survey Employer Survey Student Portfolio

Attainment of POs/PSOs through Direct Tools (PO_{Direct})

Direct Assessment of POs/ PSOs based on Course Outcome Attainment

$$PO_{Direct} = PO_{CO}$$

Tool: Course Outcomes

Attainment through CO Attainment, (PO_{CO})

$$PO_{CO} = \Sigma \frac{\% \text{ of CO Attainment} \times \text{Correlation Level of CO \& PO Mapping}}{\text{Sum of the Correlation Levels}}$$

Where, the Correlation Levels are:

3: Substantial (High)

2: Moderate (Medium)

1: Slight (Low)

Attainment of POs/PSOs through Indirect Tools ($PO_{Indirect}$)

Table 2. Weightages for the Indirect Tools

Sl. No.	Name of the Indirect Tool	Weightage
1.	Student Portfolio	20%
2.	Exit Survey	60%
3.	Employer Survey	20%



$$PO_{\text{Indirect}} = 0.2 * PO_{\text{Portfolio}} + 0.6 * PO_{\text{Exit Survey}} + 0.2 * PO_{\text{Employer Survey}}$$

Overall Attainment: POs & PSOs

$$PO_{\text{Attainment}} = 0.8 * PO_{\text{Direct}} + 0.2 * PO_{\text{Indirect}}$$

The calculation of direct PO & PSO attainment through CO attainment, all the components of indirect tools i.e. Exit Survey, Employer Survey, Student Portfolio and the calculation of overall PO & PSO attainment are converted in **Three Point Scale**.