EAST POINT **COLLEGE OF ENGINEERING & TECHNOLOGY**

Approved by AICTE, New Delhi | UG programs Accredited by National Board of Accreditation (NBA): CSE, ECE & ISE |
Affiliated to Visvesvaraya Technological University (VTU) Belagavi | Recognized by Govt. of Karnataka | Virgo Nagar, Bengaluru-
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2.6.2. ATTAINMENT OF POS AND COS ARE EVALUATED

East Point College of Engineering and Technology employs an automated outcome-based education process where CO-PO mapping and attainment calculations are automated. Benchmarks for attainment are set and validated to ensure all Program Outcomes (POs) are achieved. Discussions with the DAC (Departmental Advisory Committee) are held for CO-PO mapping, and training sessions are conducted if any POs are not met to implement necessary corrective actions.

CO-PO/PSO ASSESSMENT METHOD:

Assessment method is categorized into direct and indirect methods as shown in Figure 1, to assess the program-specific outcomes, program outcomes, and course outcomes.
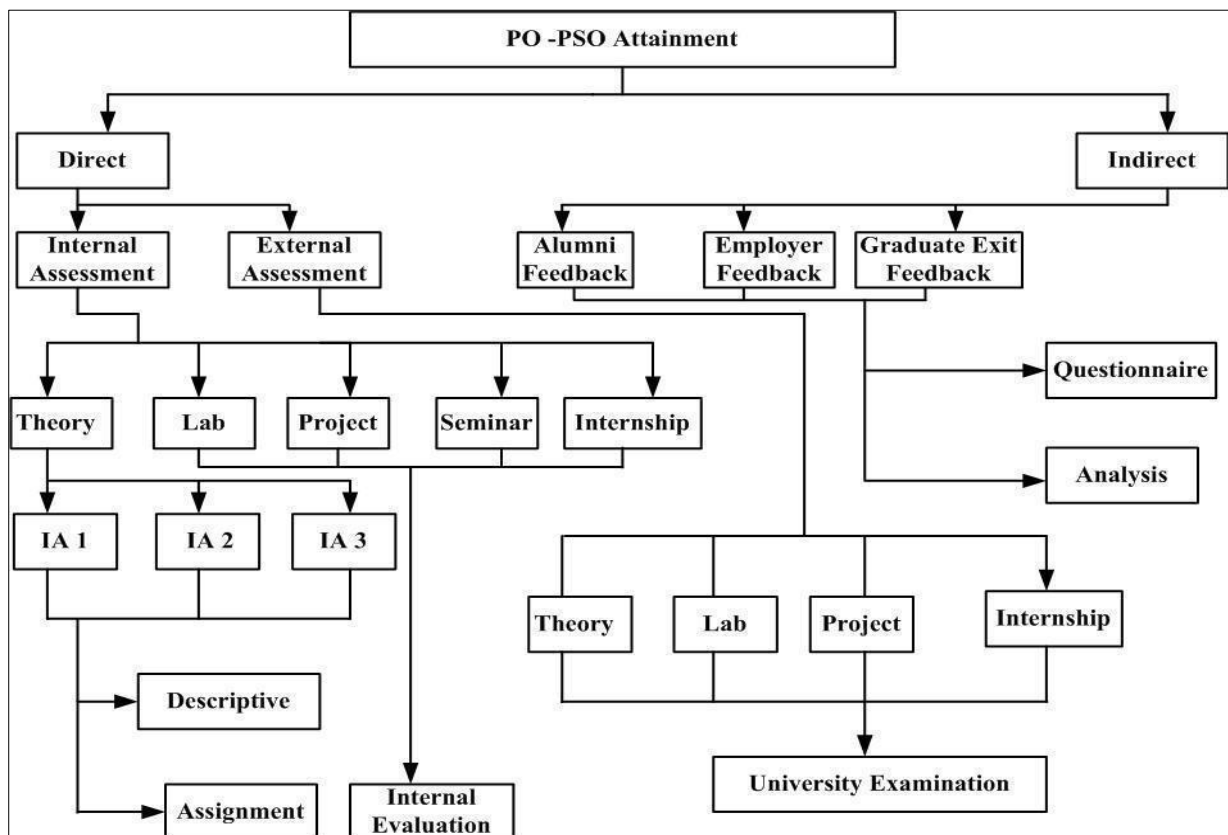

Figure 1: CO-PO/PSO Attainment Process

1. Direct Methods:

Direct methods evaluate students' knowledge and skills through continuous internal assessments, semester exams, seminars, projects, internships, and class/lab assignments.

a. **Theory Exam Evaluation**: Theory courses are assessed via Continuous Internal Evaluation (CIE) and Semester End Exams according to the VTU's scheme. CIE includes test marks and marks for seminars, assignments, mini-projects, or industry certifications.

Table 1: Scheme-wise Weightage of CIE & SEE

Scheme	CIE weightage	Assignment	SEE weightage
2015	20%	-	80%
2017 &2018	30%	10%	60%
2021 & 2022	30%	20%	50%

b. **Laboratory Exam Evaluation:** At each semester's start, essential software is installed for labs. Instructors introduce the syllabus, objectives, grading, and software use before lab sessions. Lab manuals, prepared per university guidelines, are reviewed by the department's academic committee. Students receive the manual with experiment details and design considerations before labs. Each three-hour session covers algorithms, circuit/logic design, and experiment operation. Students document, implement, and analyse experiments in observation books and record books. Completed experiments, outputs, theory, and algorithms are recorded for continuous assessment. Viva-voce questions are administered during labs to ensure evaluation.

c. **Seminar Evaluation:** In the eighth semester, students undertake a Technical Seminar per VTU guidelines. A Seminar Coordinator, appointed by the HoD, assigns guides, schedules presentations, and forms review committees with the guide and two senior faculty. Topics align with emerging technical areas. Internal Assessment is conducted by the guide and review committee.

d. **Internship Evaluation:** Internships are vital for enhancing students' employability skills, aligning with VTU's mandate of a minimum 4-week program during semester breaks. Coordinators assign internal guides, aiding students with industry interactions and support. University examinations in the VIII semester include internship credits.

e. Project Work Evaluation: Project work is split into Phase I (seventh semester) and Phase II (eighth semester). Continuous Internal Evaluation (CIE) for each phase, worth 100 marks, is conducted by a review committee consisting of the guide and two senior faculty. Phase I CIE assesses the report (literature survey, problem identification, objectives, methodology), presentation skills, and Q&A. Phase II CIE evaluates the demonstration, report, and Q&A.

2. Indirect methods

Indirect Methods such as surveys ask the stakeholders to reflect on students' learning. They assess opinions and thoughts about the graduate's knowledge or skills they learnt during their 4 years program. The indirect methods in practice are:

> ➤ Graduate Exit Feedback
>
> ➤ Alumni Feedback
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> ➤ Employers Feedback

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