



POORNIMA

COLLEGE OF ENGINEERING

An autonomous institution approved by RTU, AICTE & UGC • NAAC A+ Accredited



ATTAINMENT PROCESS

ISI-6, RIICO Institutional Area, Sitapura, Jaipur-302022 (Rajasthan)

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Poornima College of Engineering envisions creation of knowledge-based society with scientific temper and team-spirit. The institute aims at holistic development of the student to meet global competitive challenges. The institute practices Outcome Based Education for all undergraduate offered programs and this practice starts with defining Course Outcomes (COs) for each course using Bloom's Taxonomy and mapping with Program Outcomes (POs), Program Specific Outcomes (PSOs), finding curriculum gaps and planning beyond curriculum contents & activities.

The Institute and Department Vision & Mission, Program Educational Objectives (PEOs), POs, PSOs and COs are displayed on the institution website (www.pce.poornima.org) and disseminated in the departments via flex, Posters in the department laboratories, lecture theatres, tutorial rooms, notice boards, faculty rooms, HOD cabin, department corridors, library, department newsletters, Institute annual magazine, Institute prospectus, faculty course file and laboratory manuals. These are discussed and finalized through various committees representing various stakeholders.

Zero lecture of the each course includes details of COs, POs, PSOs & PEOs along with Department Vision & Mission statements and the Sessions on “Outcome Based Education” are conducted in orientation programs for the newly joined faculties & admitted students.

Attainment of POs and COs are evaluated:

Process of attainment evaluation of COs and POs are continuous, real time and comprehensive at PCE. PCE has laid down unique OBE process in the Institute wherein student wise attainment is evaluated and analyzed continuously. After defining Course Outcomes (COs) of each course, COs are mapped with POs and PSOs on the scale of 1 to 3, where ‘1’ is used for weak mapping, “3” is used for strong mapping and “-“is used for no mapping. COs are defined in generic form considering whole contents of a course as one unit and targeting attainments of cognitive domain POs. Some of the COs are mapped to POs of affective domain and psychomotor domain assessed through activity based learning. Faculty sets criteria for target in each course and evaluates attainments in continuous mode. At each stage of assessment gaps are identified and action to be taken is decided, in case target achieved, criteria for target is set to higher level.

As per the RTU guidelines the evaluation process of students for practical and theory exams are segregated in to two components namely internal assessment and external assessment components. Process of attainment of COs and POs is shown in Figures (a) & Figure (b).



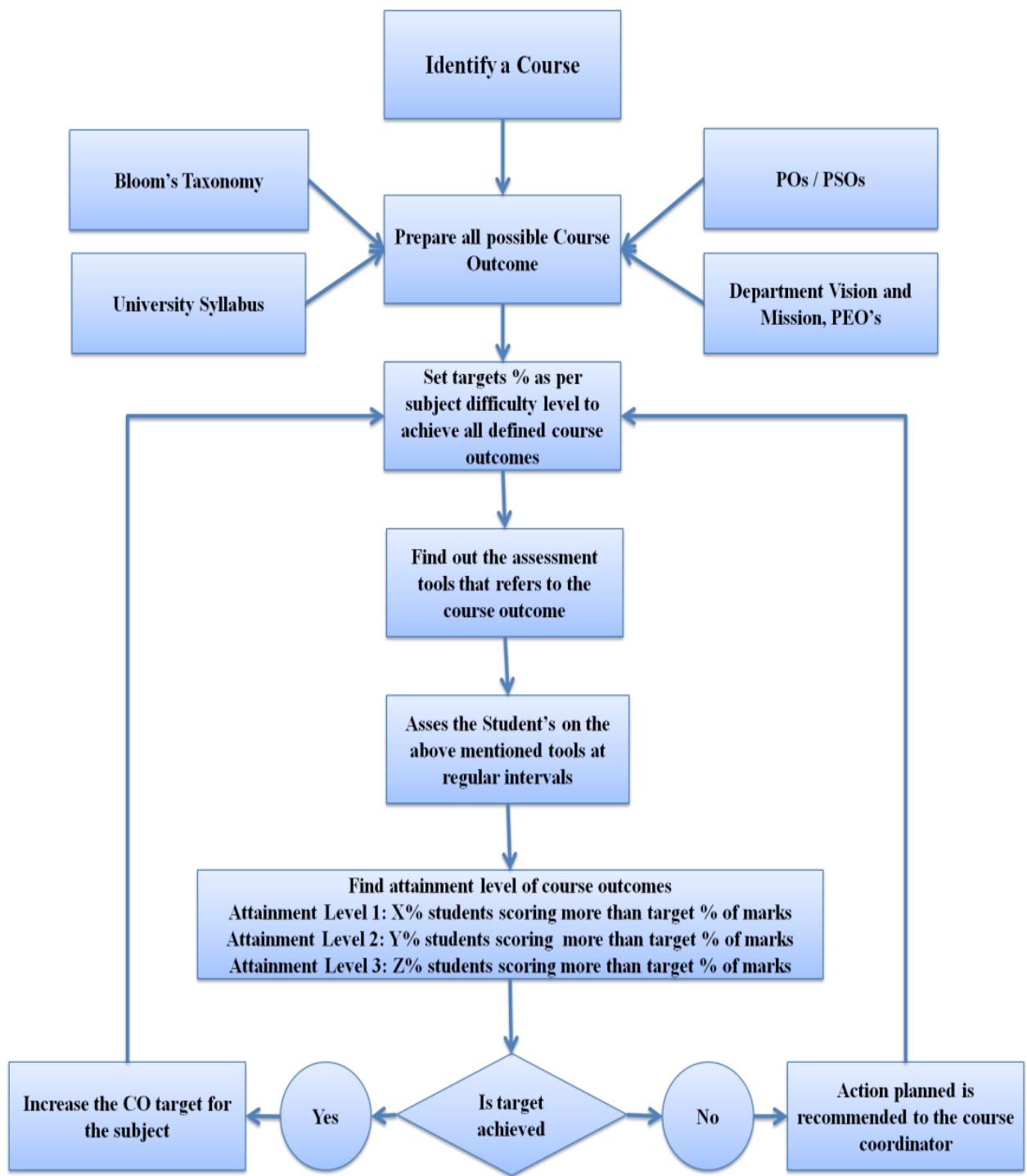


Figure:- (a): CO attainment Process

POs and PSOs Attainment

The attainment of Program Outcome (POs) and Program Specific Outcome (PSOs) is calculated through direct and indirect assessment tools.

- Direct attainment of POs/ PSOs is obtained from attainment of COs and LOs. COs are defined for theory courses while Learning Outcome (LO) are defined for laboratory, seminars, projects and activity based learning. COs & LOs altogether maps with all PO (i.e. PO1 to PO12), likewise attainments of all COs & LOs leads to attainments of POs and PSOs. Targets for POs/PSOs after mapping all COs and LOs always comes as less than 3. This leads to planning of beyond curriculum activities such as trainings, internships, industry visits, workshops etc. There activities are planned and the attainments are measured through rubrics. As there is student wise attainment process, the students are categorized as best performing, good and weaker students. More focus is given weaker students so that they move from weaker to good and best performance groups. Separate activities and inputs are planned for such groups. The indirect attainment POs/PSOs is calculated through surveys and feedbacks from the stakeholders. The survey form is used to take feedback from stakeholder at the end of the semester/ activity. The survey form carries questions from relative PO/PSO and participants asked to fill their responses at a scale of 1 to 5. On the basis of responses received from stakeholders and counting scale values the attainment of PO/PSO is calculated. Overall indirect attainment is calculated by taking average of all the activities/feedbacks of individual PO/PSO.
- Overall PO or PSO attainment is calculated by considering 80% weightage from direct and 20% weightage from indirect attainment.
- Further attainments such as performance in competitions, hackathons, placements etc. are linked with POs and PSOs.
- Evaluation process of PO/PSO is unique and precise.

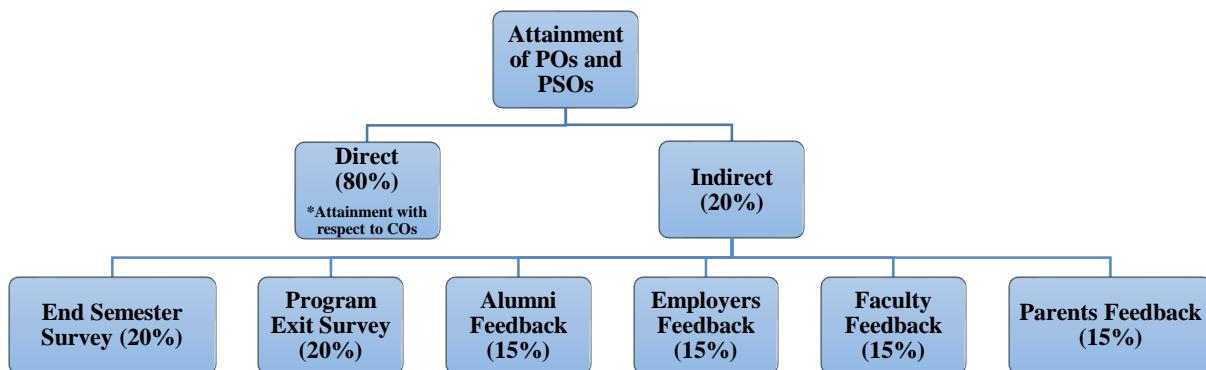


Figure:- (b): POs/PSOs Attainment



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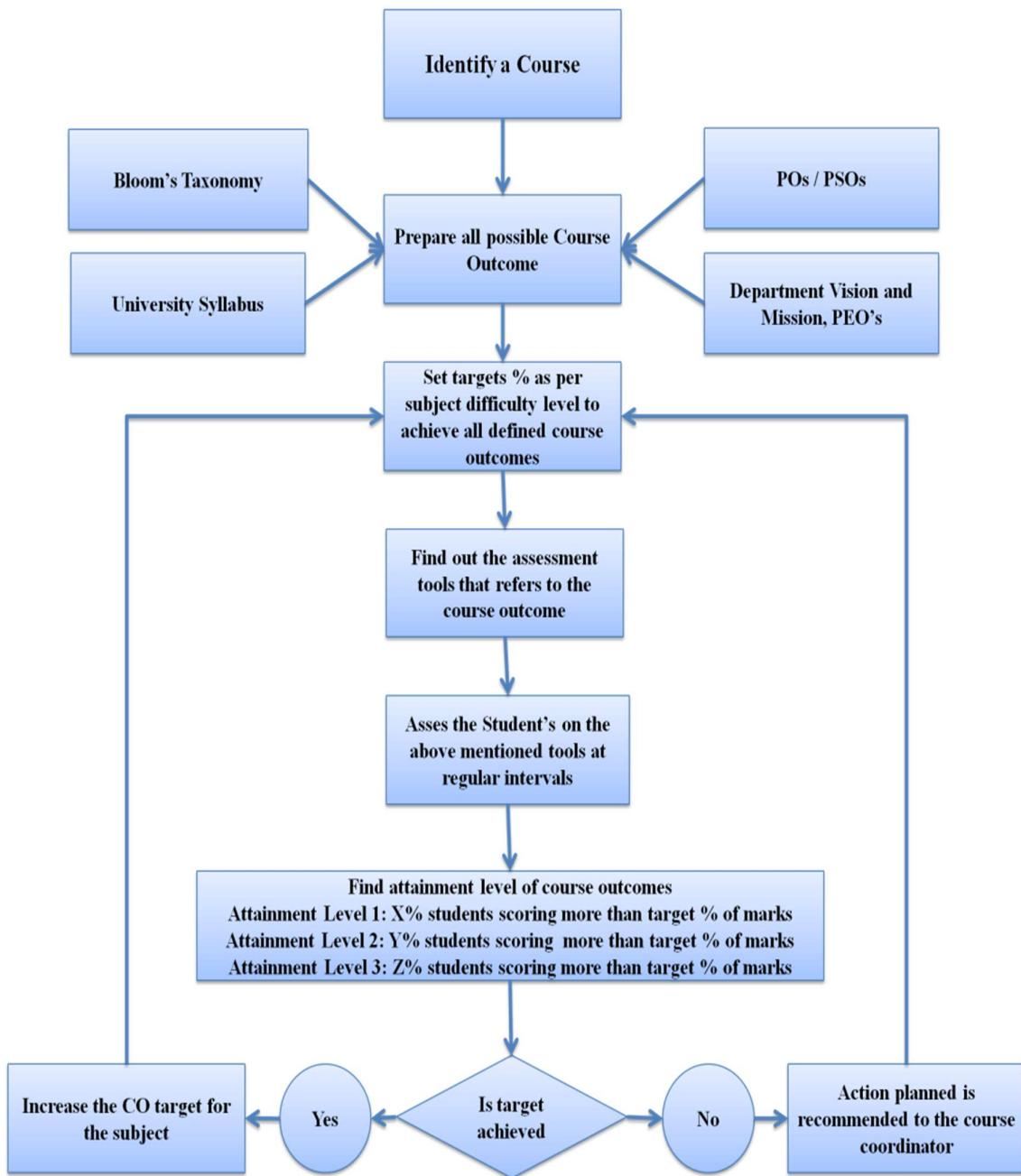
Recognized by UGC under Section 2(f) of the UGC Act, 1956

CO, PO, PSO Attainment Calculation (Sample)

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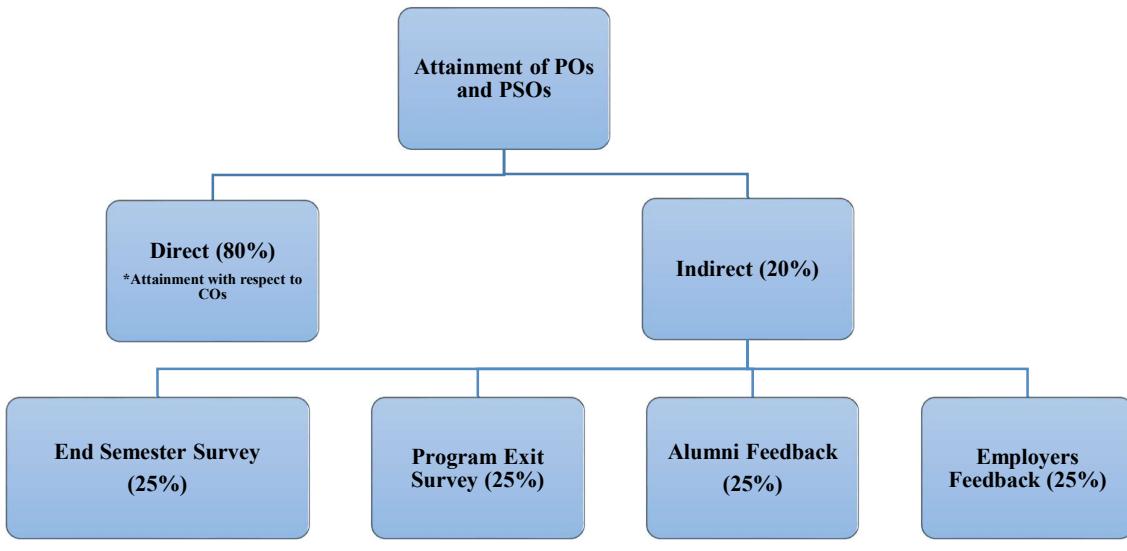

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CO Attainment Process


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PO / PSO Attainment

Assessment Tools Used:

- I Mid Term
- II Mid Term
- Class Test
- OBT
- Quiz
- RTU
- End Semester Survey
- Program Exit Survey
- Alumni Feedback
- Employers Feedback


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