

## VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY BURLA ବୀର ସ୍ଥରେନ୍ଦ୍ର ସାଏ ବୈଷୟିକ ବିଶ୍ୱବିଦ୍ୟାଳୟ

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No.VSSUT/IQAC/ 07

Date: 17/01/2025

# PROCEDURE FOR ATTAINMENT COMPUTATION AND RUBRICS FOR PO, PSO, PEO

The university follows a specific process for computation of attainment of Course Outcomes, Program Outcomes, Program Specific Outcomes and Program Educational Objectives since Academic Year 2019-20. Based on the resolution of 35<sup>th</sup> Academic Council and 44<sup>th</sup> meeting of IQAC, the attainment computation procedure is modified as follows.

### Overview of the Process for computation of CO, PO, PSO and PEO attainment.

#### **Attainment of Course Outcomes**

- 1. Direct attainment of COs is obtained from marks obtained by students.
- 2. Indirect attainment of COs is obtained from a survey response at the end of the semester.
- 3. Final attainment of COs is obtained using the formula 0.8 \* (CO Direct) + 0.2 \* (CO Indirect)

#### **Attainment of Program Outcomes**

- 1. Direct attainment of POs is obtained from CO attainment.
- 2. Indirect attainment of POs is obtained from various surveys.
- 3. Final attainment of POs is obtained using the formula 0.7\*(PO Direct) + 0.3\*(PO Indirect).

Attainment of Program Specific Outcomes is obtained from final CO attainment.

Attainment of Program Educational Objectives is obtained from survey of alumni who have graduated within last 03-05 years.

#### **Detailed Process for Attainment of Course Outcomes**

- 1. Attainment computation by direct method is from marks obtained by students in mid term (30 marks), end term (50 marks), and Assignment/Quiz etc (20 marks).
- 2. Define attainment level for each theory/ sessional/ laboratory in Department Academic Committee. For example, attainment level [0.55, 0.4] means, if average class marks > 0.55, attainment is 3, else if 0.4< average class marks <0.55, attainment is 2, else the attainment is 1.
- 3. At the end of take a survey from students for indirect assessment of course outcomes using the format available on IQAC website "Format for Indirect assessment of course outcomes".
- 4. Enter marks obtained by students and attainment levels in the format "Format for CO-PO-PSO Attainment Computation for Theory-UG-WithAAQ.xlsx" (or PG) available at IQAC website.
- 5. The direct assessment of course outcomes for laboratories and sessionals is separated into Continuous and End Term Evaluations. Indirect attainment is obtained using surveys.

Website: www.vssut.ac.in, E-mail:iqac@vssut.ac.in, Phone :(0663) 2430 573/211, Fax : (0663) 2430 592/204,

## **Detailed Process for Attainment of Program Outcomes**

1. The direct attainment of individual program outcomes is computed as follows.

# Final CO Attaiment $\times \frac{\text{Average Mapping for that PO}}{3}$

The final attainment for the batch is **AVERAGE** of PO attainment of individual subjects. It should be noted that a low value of CO-PO mapping results in lower attainment for that PO.

- 2. The indirect assessment of Program Outcome attainment is obtained from
  - (i) Student Exit Survey,
  - (ii) Alumni Survey,
  - (iii) Employer Survey,
  - (iv) Survery during expert talks,

which are conducted both offline and online by IQAC and at department/program level.

#### Resources

- 1. Further details of the attainment computation process and details of Outcome Based Education implementation in VSSUT can be obtained from OBE-VSSUT.pdf available at https://vssut.ac.in/IQAC/documentspdf/OBE-VSSUT.pdf
- 2. Detailed formats for attainment computation and formats for various surveys can be downloaded from the IQAC website. <a href="https://vssut.ac.in/IQAC/">https://vssut.ac.in/IQAC/</a>

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