



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY BURLA

ବୀର ସୁରେନ୍ଦ୍ର ସାଏ ବୈଷୟିକ ବିଶ୍ୱବିଦ୍ୟାଳୟ

(A UGC Recognized State Government University by an Act of Assembly, Estd. -1956)
Siddhi Vihar, P.O. Engineering College, Burla, Dist: Sambalpur, Odisha, (India) -768 018

No.VSSUT/IQAC/ 131

Date: 20/11/2025

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 35th Academic Council and 44th 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 $0.8 * (\text{CO Direct}) + 0.2 * (\text{CO Indirect})$

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 $0.7 * (\text{PO Direct}) + 0.3 * (\text{PO Indirect})$.

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.
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.

Detailed Process for Attainment of Program Outcomes

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

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

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.

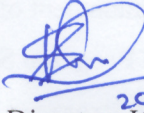
2. The **indirect assessment** of Program Outcome attainment is obtained from

- (i) Student Exit Survey,
- (ii) Alumni Survey,
- (iii) Employer Survey,
- (iv) Survey 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. <https://vssut.ac.in/IQAC/>

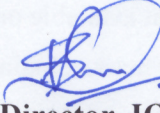

20/11/2025
Director, IQAC
VSSUT, Burla

Memo No. VSSUT/IQAC/ 132

DATE: 20/11/2025

Copy to:

- 1) HODs/HOPS for information and necessary action, with a request to circulate this procedure among all faculty members including Guest faculties.
- 2) Registrar for information.
- 3) PA to VC for kind information of Hon'ble Vice-Chancellor.


20/11/2025
Director, IQAC
VSSUT, Burla