



Workbook for measuring POs/PSOs

| | | |
|-------------------------------|--|------|
| Course Code/ Name | | Sem: |
| Name of the course Teacher | | |

Assume

| CO-ID# | Description of Course Outcomes At the end of this course, students will be able to: | Mapping to POs/PSOs @ Levels Indicated | | |
|--------|--|--|---------------|----------|
| | | 3 Substantial | 2 Moderate | 1 Low |
| CO-1 | - | 1 | - | 5 |
| CO-2 | - | - | 3,4 | 1 |
| CO-3 | - | 1 | - | 5 |
| CO-4 | - | 3,4 | 1 | 5 |
| CO-5 | - | 3 | 1 | 4,5 |

Assume following attainment for some defined targets/benchmarks.

| Class Level Attainment Report | | CO-1 | CO-2 | CO-3 | CO-4 | CO-5 |
|-------------------------------|-------|------------|------------|------------|------------|------------|
| | | Value of Y | Value of Y | Value of Y | Value of Y | Value of Y |
| Attainment | % | 95 | 60 | 80 | 75 | 76 |
| | Level | L3 | L1 | L3 | L2 | L2 |

Performance Targets and Bench Mark: **Bench Mark [set % of marks] = 70 %**

| Target Level | Description of the performance Level in-terms of % of students reaching set % of Marks |
|--------------|--|
| L3 | 80 % of the students getting ≥ 70 % of the marks |
| L2 | 70 % of the students getting ≥ 70 % of the marks |
| L1 | 60 % of the students getting ≥ 70 % of the marks |
| L0 | Not Attained |

Note: All these are to be set before the semester begins. They may be different for different courses.

Procedure for computing attainment of given POs/PSOs say $PO_{i=1 \text{ to } 16} =$

$$= [\begin{aligned} & \mathbf{3} * \text{Effective contribution of this course at level 3 i.e. average of all} \\ & \text{COs mapping at substantial level} + \\ & \mathbf{2} * \text{Effective contribution of this course at level 2 i.e. average of all} \\ & \text{COs mapping at moderate level} + \\ & \mathbf{1} * \text{Effective contribution of this course at level 1 i.e. average of all} \\ & \text{COs mapping at slight level} \\ & \text{] divided by sum of contributing weights.} \end{aligned}$$

| Attainment of Programme Outcomes (POs) and Program Specific Outcomes (PSOs) (1 to 16 or as the case is) expressed in % and levels | | | | | | | | | | | | | | | | |
|---|------|---|------|-------|------|---|---|---|---|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| % | 78.9 | - | 69.3 | 70.16 | 81.5 | - | - | - | - | - | - | - | - | - | - | - |
| Level | 2 | - | 1 | 2 | 3 | - | - | | - | - | | - | - | | - | - |

$$\text{PO-1:} = \{ 3 \times [\{95+80\} \div 2] + 2 \times [\{75 + 76\} \div 2] + 1 [60 \div 1] \} \div (3+2+1)$$

$$= 78.9 \%$$

$$\text{PO-3:} = 69.3$$

$$\text{PO-4:} = 70.16$$

$$\text{PO-5:} = 81.5$$

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