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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

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Evaluation Steps for CO Attainment:

Step1: CO Direct Attainment = Formative Assessment (50%) + Summative Assessment (50%).

- Course Outcomes around 3-6 in numbers are framed by the individual course teacher are tabulated.
- The Course Outcomes are mapped to the program outcomes with various levels (1-low, 2-moderate and 3-high) are tabulated.
- The Average CO correlation level of all the CO"s of individual course is calculated as

 $Average = \frac{y}{x}$

Where x = no. of CO"s mapped,

y = sum of correlation level values of all CO"s in that column and tabulated.

Step 2:

The questions in the Internal Assessment Papers are mapped to appropriate CO"s of the course

Step 3:

The marks obtained by the students for all the questions in internal tests are tabulated in the spreadsheet and grouped based on the CO"s.

Step 4:

The total marks scored by the students for questions mapped to individual CO"s are calculated. Then the percentage of students scored more than 50% is calculated.

Step 5: The Internal Assessment Attainment is calculated as

Level 1: if 50% of students score >50% of marks

Level 2: if 60% of students score > 50% of marks

Level 3: if 70% of students score > 50% of marks

Step 6: As bitwise marks are unknown to us in Summative Assessment conducted by University, hence the score by the students in each CO"s are assumed to be map to the all CO"s.



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The Summative Assessment is calculated as

Summative Assessment = $\frac{a}{b}$

Where a= Number of Students reach the set target, b=No. of students
The target set for the university average is 50%

Level 1: if 50% of students score >50% of marks

Level 2: if 60% of students score > 50% of marks

Level 3: if 70% of students score > 50% of marks

CO attainment will be same for all CO"s of the course

Evaluation steps for direct assessment:

The PO attainment of each course is calculated by using two tables

CO-PO Mapping Table (Program level mapping matrix)

CO-PO Attainment table (Program level Attainment matrix)

a) CO-PO Mapping Table (Program level mapping matrix):

- ✓ Each CO is mapped to some of the PO"s by course teacher with different correlation levels.
- ✓ Sum of all correlation levels between CO"s against each PO"s are tabulated.
- ✓ The average of all CO"s with each PO"s is calculated as

Average = (Sum of correlation levels) / (No. of CO mapped)

b) CO-PO Attainment table (Program level Attainment matrix):

- ✓ The mapped CO with PO using the attained individual COs is calculated as =

 [Attained CO grade * Level of CO mapped with PO/PSO]/Maximum

 Attainment Level.
- ✓ Weighted Sum of all correlation levels between CO"s against each PO"s/PSOs are tabulated.

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