	VIMAL JYOTHI ENGINEERING COLLEGE JYOTHI NAGAR, CHEMPERI – 670632, KANNUR, KERELA Affiliated to APJ Abdul Kalam Technological University, Approved by AICTE ISO 9001 : 2015 Certified | Accredited by Institution of Engineers (India), NBA, NAAC Ph: 0490 2212240, 2213399 Email: office@vjec.ac.in Website: www.vjec.ac.in	**NAAC Cycle 2**
		Criterion: 2.6.2

CO ASSESSMENT PROCEDURE

Percentage Weightage for Direct and Indirect Assessment tools used for CO attainment calculation.

Direct Assessments (Internal exam, assignments, End semester exam)	Indirect Assessments (Course end survey/feedback)
80%	20%

Weightage for different direct assessment Tools

Internal Exam	Assignment	End Semester Exam	Total
64%	16%	20%	100%

<u>PROCEDURE</u>

- ➤ **CO direct** is obtained as **CO direct = 0.8 CO internal + 0.2 CO external**
- ➤ CO internal is calculated based on marks of internal test marks and assignment marks.
- ➤ Each question of internal test and assignment will be mapped to Cos.
- ➤ **CO internal** attainment of each Cos is obtained by evaluating the marks contributed by questions mapped with corresponding Cos of both internal tests and assignment. (CO internal attainment is obtained by checking the number of students who scored more than 45% of marks on each question. Average of all questions mapped to a particular CO gives the internal attainment of that CO)
- ➤ **CO external** is obtained by checking the percentage of students who scored more than 45% of marks in university exams.
- ➤ From CO internal and external CO direct can be obtained by using the above formula for CO direct.

- ➤ **CO indirect** is obtained by considering the marks of course end survey. here attainment is calculated based on the number of students who scored more than 50% of marks.

Final CO attainment = 0.8 CO direct+ 0.2 CO indirect

1. *For <u>direct assessment tools Target for attainment is set as 45%</u> and Attainment Levels are set as follows.*

- If ≥40% of students Score 45% of marks   1

- If ≥60% of students Score 45% of marks　　　　　2

- If ≥80% or more students Score 45% of marks　　　　　3

➤ To **find intermediate value between levels 0,1 2 and 3** following mathematical calculations are incorporated.

If

- 0% to 40% students score 45% of marks　　　$0 + \frac{(actual\ percentage - 0)}{(40 - 0)}$

  For example

  If 35% of students scored 45% of marks then,

  Attainment level $= 0 + \frac{(35 - 0)}{(40 - 0)} = \frac{35}{40} = 0.875$

  Similarly,

- 40% to 60% students score 45% of marks　　　$1 + \frac{(actual\ percentage - 40)}{(60 - 40)}$

- 60% to 80% students score 45% of marks　　　$2 + \frac{(actual\ percentage - 60)}{(80 - 60)}$

2. *For <u>indirect assessment tools Target for attainment is set as 50%</u> and Attainment Levels are set as follows.*

- If ≥40% of students Score 50% of marks　　　　　1

- If ≥60% of students Score 50% of marks　　　　　2

- If ≥80% or more students Score 50% of marks　　　　　3

Intermediate values are found same as for direct methods.