

Calculation for Programm outcome attainment

Step1: Develop CO – PO mapping at each Course Level and Program level

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
CO1	3	1	1	1	3	2	1	1	-
CO2	3	1	1	-	1	2	2	1	1
CO3	2	3	2	2	1	3	-	1	1
CO4	2	-	1	2	2	1	2	2	3
CO5	1	2	3	3	-	2	1	1	3
Average	2.2	1.75	1.6	2.0	1.75	2.0	1.5	1.2	2.0

$WP_i = \sum_j (CO_j) / 5$ (i=1 to 10 and j=1 to 5) (where WP_i is the Weight factor for

Programme Outcome PO_i)

Step 2: COs Attainment Targets at Course Level

Course Evaluation	Levels of Assessment (Marks Distribution)	Target Fixed	Attainment Level
CIA (40 Marks)	DA (10 Marks)	> 6 Marks	1, otherwise 0
	IA (30 Marks)	> 1 Marks	1, otherwise 0
SEE (60 Marks)	FA	>24 Marks	1, otherwise 0

(CIA- Continuous Internal Assessment, SEE – Semester End Exam, DA – Direct Assessment, IA – Indirect Assessment, FA- Final Assessment)

Step 3: Calculating Attainment at each Level of Assessment for Course

CO is said to be attained by a student if he/she gets greater than 40% of marks in FA, greater than 60% of marks in DA and around 50% of marks in IA as fixed targets. The number of students who attained the target is calculated for a course as a whole using the following formulas:

$CO_DA = \text{Total Number of Students reached the target} / \text{Total number of students attended}$

$CO_IA = \text{Total Number of Students reached the target} / \text{Total number of students attended}$

$CO_FA = \text{Total Number of Students reached the target} / \text{Total number of students attended}$

Step 4: Calculating Semester-wise Attainment for each Level

1. Calculating the Final PO attainment Levels for a Course and Semester:

After calculating weights and fraction of students attained at each level of assessment for a particular course, semester-wise PO attainment will be calculated by using the following formula for three different levels of assessment.

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Direct Assessment:

$$P_{iDAj} = \frac{\sum(WP_i * CO_{DA})}{\sum WP_i}$$

Indirect Assessment:

$$P_{iIAj} = \frac{\sum(WP_i * CO_{IA})}{\sum WP_i}$$

Final Assessment:

$$P_{iFAj} = \frac{\sum(WP_i * CO_{FA})}{\sum WP_i}$$

(Fix j = 1 to 6 (Semester number) and i vary from 1 to 9)

Step 5: Calculating attainment at each level for a Programme

After calculating semester wise PO attainment for each level of assessment for six semesters, Programme wise attainment will be calculated by using the following formula for three different levels of assessment.

Direct Assessment:

$$P_{iDA} = \frac{\sum_j P_{iDAj}}{n} \times 100$$

Indirect Assessment:

$$P_{iIA} = \frac{\sum_j P_{iIAj}}{n} \times 100$$

Final Assessment:

$$P_{iFA} = \frac{\sum_j P_{iFAj}}{n} \times 100$$

(i =1,...9, j=1,...6 and n = Total No. of Semesters)

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PO ATTAINMENT OF BSC LIFE SCIENCES (2016-2019 BATCH)

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9
BCOM	95.73	93.63	92.94	91.82	95.18	94.53	94.98	93.76	91.65
BBA	96.14	95.60	94.87	94.14	96.02	95.78	95.39	94.96	93.82
BA	90.40	91.56	91.48	93.60	92.73	91.06	89.35	92.05	91.97
BSC PS	90.52	87.69	86.70	86.32	91.12	88.91	88.71	88.41	84.95
BSC LS	94.01	95.43	94.26	92.68	93.34	94.60	92.13	91.77	90.85