



GOVERNMENT CITY COLLEGE (A) Hyderabad-500002

(Affiliated to Osmania University)
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CALCULATION FOR PROGRAM OUTCOME ATTAINMENT

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

	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	3	3	3	1	3	2	2
CO2	3	3	3	1	3	2	2
CO3	3	3	3	2	3	2	2
CO4	3	3	3	2	2	2	2
CO5	3	3	3	3	2	2	2
Average	3	3	3	1.8	2.6	2	2

$WP_i = \frac{\sum_{j=1}^5 CO_j}{5}$ (i=1 to 7 and j=1 to 5) (where WP_i is the Weight factor for Program Outcome PO_i)

Step 2: COs Attainment Targets at Course Level

Course Evaluation	Levels of Assessment (Marks Distribution)	Target Fixed	Attainment Level
CIA (20Marks)	DA (5 Marks)	≥ 3 Marks	1, otherwise 0
	IA (15 Marks)	≥ 8 Marks	1, otherwise 0
SEE (80 Marks)	FA	≥ 32 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 55% 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 = Total Number of Students reached the target / Total number of students attended

CO_IA = Total Number of Students reached the target / Total number of students attended

CO_FA = Total Number of Students reached the target / Total number of students attended

Step 4: Calculating Semester-wise Attainment for each Level

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.

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 7)

Step 5: Calculating attainment at each level for a Program

After calculating semester wise PO attainment for each level of assessment for six semesters, Program 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:

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

($i = 1, \dots, 7$, $j = 1, \dots, 6$ and $n =$ Total No. of Semesters)

For Example: The PO Attainment for a faculty B.Sc. Life Sciences, B.Sc. Physical Sciences, BA(HEP) and B. Com (CA), B.B.A for the 2020-23 batch is as follows:

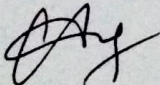
BSC PS	PO1	PO 2	PO 3	PO 4	PO 5	PO 6
FA	86.30389	86.29915	92.35663	88.7287	87.16571	91.07505
DA	99.79161	99.79508	99.92267	99.82923	99.80484	99.89754
IA	97.86921	97.87536	98.5034	98.18205	98.04116	98.36587

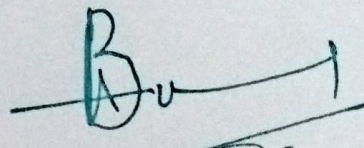
BSC LS	PO1	PO 2	PO 3	PO 4	PO 5	PO 6
FA	89.0362	89.0502	91.2029	89.3086	89.6085	91.2657
DA	99.5637	99.5241	99.6723	99.5362	99.5719	99.607
IA	99.5637	99.5241	99.6723	99.6723	99.5362	99.607

BA(HEP)	PO1	PO 2	PO 3	PO 4	PO 5	PO 6
FA	96.2276	96.4524	96.2524	96.2524	96.316	95.9224
DA	99.122	99.1895	99.4482	99.2976	99.3862	99.3256
IA	99.122	99.1895	99.1895	99.2976	99.3862	99.3256

B.COM(CA)	PO1	PO 2	PO 3	PO 4	PO 5	PO 6
FA	95.2962	95.6601	95.5745	95.6288	95.9939	95.7877
DA	91.2444	91.7103	96.8306	92.2327	93.1311	93.5786
IA	97.5798	97.8664	97.872	98.1266	98.3047	98.471

BBA	PO1	PO 2	PO 3	PO 4	PO 5	PO 6
FA	98.4615	98.6151	98.3568	98.3824	98.5164	98.354
DA	99.877	99.8313	99.7394	99.8795	99.7872	99.7638
IA	99.6093	99.6625	99.6737	98.3824	99.6413	99.6117


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