



Geethanjali College of Engineering and Technology (Autonomous)

Accredited by NAAC with A⁺ Grade; B.Tech. CSE, EEE, ECE accredited by NBA

Sy. No: 33 & 34, Cheeryal (V), Keesara (M), Medchal District, Telangana – 501301

Department of Computer Science and Engineering

PROCEDURE FOR MEASURING THE PO ATTAINMENT (Batches-2016-20, 2017-21, 2018-22, 2019-23,2020-24,2021-25)

PO Attainment Process

Calculation of POs attainment

1. In measuring the attainment level of each PO,
 - 75% of weightage shall be given for the Direct attainment of that PO obtained in terms of Levels 1,2 and 3 which is the weighted average of all the COs related to that PO and
 - 25% of weightage for Indirect measurement that includes
 - Graduate Survey(Exit feedback) on POs (15% weightage)
 - Co-Curricular and Extra-Curricular Activities(10% weightage)

Old Procedure (R13/R15 JNTUH Batches)	New Procedure (AR16 Autonomous Batches)
In measuring the attainment level of each PO, <ul style="list-style-type: none">□ 75% of weightage shall be given for the Direct attainment of that PO obtained in terms of Levels 1,2 and 3 which is the weighted average of all the COs related to that PO and□ 25% of weightage for Indirect measurement that includes<ul style="list-style-type: none">● Exit feedback on POs (15% weightage) and● Alumni Survey on POs (10% weightage).	In measuring the attainment level of each PO, <ul style="list-style-type: none">□ 75% of weightage shall be given for the Direct attainment of that PO obtained in terms of Levels 1,2 and 3 which is the weighted average of all the COs related to that PO and□ 25% of weightage for Indirect measurement that includes<ul style="list-style-type: none">● Exit feedback on POs (15% weightage) and● Co-curricular and Extra-curricular activities (10% weightage).

Indirect Parameters Mapping with POs:

Indirect Parameters	P O1	P O2	P O3	P O4	P O5	P O6	P O7	P O8	P O9	PO 10	PO 11	PO 12	PS O1	PS O2
Co-Curricular activities	3	3	2	2	2	2	2	2	3	3	1	3	2	1
Extra-curricular activities	-	-	-	-	1	2	2	2	3	3	-	1	-	-
GRADUATE SURVEY	3	3	3	3	3	3	3	3	3	3	3	3	3	3

2. For calculating the indirect attainment levels of POs, graduate survey (exit feedback) on POs (15% weightage), the following criteria is adopted:

PO Indirect attainment – Exit Feedback Level indicator for PO attainment	
Level 1	$\geq 70\%$ and $<80\%$ of feedback score
Level 2	$\geq 80\%$ and $<90\%$ of feedback score
Level 3	$\geq 90\%$ of feedback score

3. **Procedure for adding Co-curricular and Extra-curricular activities in measuring the indirect attainment of POs**

- List all the co-curricular and extra-curricular activities done by students of a particular batch along with other details is taken
- Details of the activities are indicated as C: Co-curricular activities; E: Extra-curricular activities.
- Formula for calculation of Attainment level through Co-Curricular and Extra-Curricular Activities:

$$\text{Average No. of students of a particular batch participated per event under an activity} = \frac{\text{No. of students participated}}{\text{No. of events}}$$

$$\text{Percentage of Students of a particular batch participated in Co-Curricular/Extra-Curricular activities} = \frac{\text{Average No. of students of a particular batch participated per event under an activity}}{\text{No. of students as per intake of that particular batch}}$$

PO Indirect attainment – Co-Curricular and Extra-Curricular Level indicator for PO attainment	
Level 1	$\geq 50\%$ and $<60\%$ students participated
Level 2	$\geq 60\%$ and $<70\%$ students participated
Level 3	$\geq 70\%$ students participated

PO Indirect attainment – Extra-Curricular Level indicator for PO attainment	
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Level 1	$\geq 20\%$ and $<30\%$ students participated
Level 2	$\geq 30\%$ and $<40\%$ students participated
Level 3	$\geq 40\%$ students participated

PO_i Attainment through Co-Curricular/ Extra-Curricular Activity	=	Level of Attainment of the Activity* Activity Mapping with PO_i 3
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- a. Indirect Attainment of the each PO through Co-Curricular and Extra-Curricular is 15% of average attainment of Co-Curricular and Extra-Curricular activities attainment.