

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506015, TELANGANA, INDIA काकतीय प्रोद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६०१५, तेलंगाना, भारत కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగఠ్ - గం౬ ဝဂ౫ తెలంగాణ, ఖారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

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Process of calculating CO attainment

- Course Outcome Attainment is carried out using the following two components.
 - (i). End Semester Examination (ESE)
 - (ii). Continuous Internal Evaluation (CIE)
- There are 4 course outcomes framed for every course.
- Each course outcome is mapped to program outcomes with relevant correlation levels (3-High, 2-Medium, 1-Low, for no correlation).
- Course Outcome Attainment Level (COAL) of Mid Semester & End Semester examination
 is set by considering number of students scored more than the threshold mark of that
 course as shown below.
 - Course Outcome Attainment Level = 1: 60% students scoring more than threshold
 - Course Outcome Attainment Level = 2: 70% students scoring more than threshold
 - Course Outcome Attainment Level = 3: 80% students scoring more than threshold
 - Where threshold = 50% of maximum marks for that Course Outcome

Example:-

Total Number of Students	120			
Course outcome	CO1	CO2	CO 3	CO 4
Maximum Marks	15	15	15	15
Threshold (Th) (Th=50% of Maximum Marks)	7.5	7.5	7.5	7.5

No. of Students Count >= Th	110	90	108	82		
% of Students Count >= Th	91.6%	75%	90%	68.3%		
Course Outcome Attainment Level	3	2	3	1		
(COAL)		_		1		
Course Outcome Attainment Level=1			If 60% of Students score >= Th			
Course Outcome Attainment Level=2		If 70% of Students score >= Th				
Course Outcome Attainment Level=3			If 80% of Students score >= Th			

• CO attainment of a course is calculated by using the following formula:

Course outcome attainment=60% of ESE attainment level + 40% of CIE attainment level. (w.e.f AY 2018-19)

CO Attainment Calculation-PARAMETERS

Parameters for Assessment	<u>Units Covered</u>	COs Covered		
MINOR EXAM-1	Unit-1	CO1		
MSE-1	Unit-1&2	CO1& CO2		
ASSIGNMENT-1	Unit-1&2	CO1& CO2		
MINOR EXAM-2	Unit-3	CO3		
MSE-2	Unit-3&4	CO3 & CO4		
ASSIGNMENT-2	Unit-3&4	CO3 & CO4		
ESE	All units	CO1,CO2,CO3&CO4		

Rubrics for calculating CO ATTAINMENT level (COAL)

<u>MSE-1</u>

Total Number of Students	6	0	
Course outcome	CO 1	CO 2	
Maximum Marks	15	15	
Threshold (Th)	7.5	7.5	
No. of Students Count >= Th	47	43	
% of Students Count >= Th	78%	72%	
COAL	2	2	
If 60% of Students score >= Th, CO LEVEL =1		36	
If 70% of Students score >= Th, CO LEVEL =1	4	2	
If 80% of Students score >= Th, CO LEVEL =3	4	:8	

<u>MSE-2</u>

Total Number of Students		60		
Course outcome	CO 3	CO 4		
Maximum Marks	15	15		
Threshold (Th)	7.5	7.5		
No. of Students Count >= Th	46	32		
% of Students Count >= Th	76.6%	53.3%		
COAL	2	0		
If 60% of Students score >= Th, CO LEVEL =1		36		
If 70% of Students score >= Th, CO LEVEL =1		42		
If 80% of Students score >= Th, CO LEVEL =3		48		

<u>ESE</u>

Total Number of Students	60			
Course outcome	CO1	CO2	CO 3	CO 4
Maximum Marks	15	15	15	15
Threshold (Th)	8	7.5	7.5	7.5
No. of Students Count >= Th	55	45	54	41
% of Students Count >= Th	91.6%	75%	90%	68.3%
COAL	3	2	3	1
If 60% of Students score >= Th, CO LEVEL =1	36			
If 70% of Students score >= Th, CO LEVEL =1	42			
If 80% of Students score >= Th, CO LEVEL =3	48			

Sample Course Attainment

B.TECH I SEMES							_	
U18EE105 / BEE	Minor 1	A1	MSE-	Minor-2	A2	MSE-2	Total Internal	ESE
			1				Avg	
CO1	0	3	2				1.67	3
CO2		1	2				1.5	2
CO3				0	3	2	1.67	3
CO4				0	3	0	1	1
AVG INT/EXT							1.46	2.25
Weightage							40%	60%
							0.58	1.35
Final Course Atta	inment for	 U18E	<u> </u> E 105 / BE	L EE			1.93*	

^{*60%} ESE attainment level + 40% of CIE attainment level.