



SANSKRITHI SCHOOL OF ENGINEERING

Behind SSSS Hospital, Beedupalli knowledge park, Prasanthigram, Puttaparthi - 515134
Affiliated by JNTUA & Approved by All India Council for Technical Education (AICTE), www.sseptp.org

2.6.2 ATTAINMENT OF PO'S AND CO'S ARE EVALUATED

Under the clear vision and mission established by the leadership and management team, the Program Educational Objectives (PEOs), Program Outcomes (POs), and Course Outcomes (COs) are carefully defined and set by the respective coordinators. These outcomes are closely monitored by the Program Assessment Committee to ensure their effective implementation.

Each course within the program has well-defined course outcomes, along with corresponding evaluation criteria. These course outcomes are then mapped to the program outcomes, which provides a quantitative measurement of how well the program outcomes are achieved. The students' performance in examinations during the semester in each course plays a vital role in computing the level of attainment of the POs and Program Specific Outcomes (PSOs) through the mapping of questions to course outcomes and further to program outcomes and PSOs.

The mapping of Course Outcomes (COs) to Program Outcomes (POs) and Program Specific Outcomes (PSOs) for all the courses in the program is prepared by the program coordinator in consultation with other faculty members, ensuring a comprehensive and aligned assessment of the students' learning outcomes across the programme


Course Outcome attainment: Course Outcome (CO) attainment is assessed using a combination of direct and indirect methods. Direct assessment involves mid examinations, semester end examinations, and quizzes, where each question is aligned with a specific CO. The overall attainment of a CO is determined based on the average mark set as the target for final attainment.

1. Mid examinations are conducted twice a semester and comprehensively cover the evaluation of relevant COs.
2. Semester End Examination is descriptive and serves as a metric for assessing the attainment of all COs.

Indirect assessment is carried out through the course end survey to gather student feedback on their learning experience.

For laboratory, mini project, major project, seminar, and internship courses, rubrics are formulated to assess the attainment of Course Outcomes. In practical courses, the attainment of a course outcome should satisfy at least one or more of the defined program outcomes. The percentage of students scoring more than 80% marks in each measured criterion is used to calculate CO attainment.

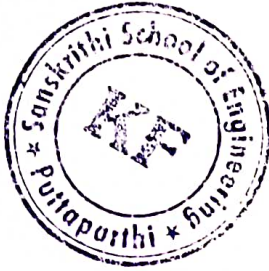




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To assess Program Outcomes (POs) and Program Specific Outcomes (PSOs), all courses contributing to the respective POs are identified. These courses are evaluated through direct (internal - 20% weightage, external exam - 80% weightage) and indirect (course end survey) assessments. The overall results from these assessments are compared with the expected attainment to determine if the POs have been satisfied.

For each course, the level of attainment of each CO is compared with predefined targets. If any target is not attained, the course coordinator takes necessary steps for improvement. In case the target criterion level is not reached, faculty members propose improvement measures to achieve the desired attainment.

More comprehensive information on this process is available in the OBE handbook.




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EXAMINATION	QI	SEQ
Benchmark for CO (50% Average in CO Tests)	19	30
No. of Students	54	49
CO Attainment	98	89
CO Attainment	9	5
Final CO Attainment	3	

Target	Attainment Level
>=70%	3
>=60%	2
>=50%	1

Question	All Questions	All Questions	CO1	CO2	FINAL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Course Outcome	CO 1, 2, 3, 4	CO 1, 2, 3, 4																		
Max Marks	30	70	CO1	3	3	3	2	3												
1	1BKCF1A050 1	26	29	CO2	3	3	3	1												
2	1BKCF1A050 2	28	17	CO3	3	3	3	1	1											
3	1BKCF1A050 3	22	30	CO4	3	3	3	3	1											
4	1BKCF1A050 4	29	36	CO5	3	3	3	2	1											
5	1BKCF1A050 5	27	36	CO-PO Mapping			2	1												
6	1BKCF1A050 6	26	34	PO Attainment			3	3												
7	1BKCF1A050 7	24	35																	
8	1BKCF1A050 8	26	33																	
9	1BKCF1A051 0	24	35																	
10	1BKCF1A051 1	25	29																	
11	1BKCF1A051 2	25	46																	
12	1BKCF1A051 3	26	46																	
13	1BKCF1A051 4	24	38																	
14	1BKCF1A061 5	26	47																	
15	1BKCF1A051 6	28	57																	
16	1BKCF1A051 7	24	45																	
17	1BKCF1A051 8	23	55																	
18	1BKCF1A052 9	25	36																	
19	1BKCF1A052 0	26	48																	
20	1BKCF1A052 1	26	45																	
21	1BKCF1A052 2	29	50																	
22	1BKCF1A052 3	25	39																	
23	1BKCF1A052 4	27	50																	
24	1BKCF1A052 5	24	47																	
25	1BKCF1A052 6	29	45																	
26	1BKCF1A052 7	28	53																	
27	1BKCF1A052 8	18	40																	
28	1BKCF1A053	28	39																	



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29	18KF1A053 1	25	52
30	18KF1A053 2	24	39
31	18KF1A053 3	25	42
32	18KF1A053 4	27	51
33	18KF1A053 5	27	38
34	18KF1A053 6	24	28
35	18KF1A053 7	27	46
36	18KF1A053 8	28	37
37	18KF1A053 9	24	38
38	18KF1A054 0	29	60
39	18KF1A054 1	23	30
40	18KF1A054 2	21	30
41	18KF1A054 3	23	29
42	18KF1A054 4	23	31
43	18KF1A054 5	22	25
44	18KF1A054 6	27	34
45	18KF1A054 8	25	35
46	18KF1A054 9	27	33
47	18KF1A055 0	27	30
48	18KF1A055 1	29	45
49	18KF1A055 2	25	32
50	18KF1A055 3	27	35
51	18KF1A055 4	25	30
52	18KF1A055 5	25	32
53	18KF1A055 7	27	32
54	18KF1A055 8	21	30
55	18KF1A055 9	23	29

W. Jeyanthi

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Sanskriti School of Engineering		COs are given equal weightage in all the two Internal Tests (OI) /Semester End Examinations (SEE)																				
EXAMINATION		Benchmark for CO (0-75/Average CO Mark)		OI	SEE																	
Question Paper OBE ANALYSIS				11	20																	
Course Name : RADAR SYSTEM	Department : ECE	No. of Students Above Benchmark		51	51																	
Course Code : 15A04705	Max Marks :100	CO Attainment %		100	89																	
		OIE	SEE	Attainment Level																		
Question	All Questions	All Questions	Final CO Attainment Level		3																	
Blooms Level	L3		L3,L4,L5																			
Course Outcome	CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5	CO	SEE	FINAL	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02	PS03		
Max Marks	30	70	CO1	3	3	3	2	3														
1	18KF1AD401	28	50	CO2	1	3	3	1	2													
2	18KF1AD402	27	47	CO3	1	3	3	1	1													
3	18KF1AD403	21	17	CO4	1	1	3	3	1													
4	18KF1AD404	23	11	CO5	1	1	3	2	1													
5	18KF1AD405	23	29	CO-PO Mapping			2	1														
6	18KF1AD406	20	17	PO Attainment			3	3														
7	18KF1AD407	21	40																			
8	18KF1AD408	22	35																			
9	18KF1AD409	27	36																			
10	18KF1AD410	20	39																			
11	18KF1AD412	21	17																			
12	18KF1AD413	27	28																			
13	18KF1AD414	23	28																			
14	18KF1AD415	15	26																			
15	18KF1AD416	30	34																			
16	18KF1AD417	28	38																			
17	18KF1AD418	22	28																			
18	18KF1AD419	25	38																			
19	18KF1AD421	21	29																			
20	18KF1AD422	23	42																			
21	18KF1AD423	23	38																			
22	18KF1AD424	20	35																			
23	18KF1AD425	21	34																			
24	18KF1AD426	23	46																			
25	18KF1AD427	22	32																			
26	18KF1AD428	24	40																			
27	18KF1AD429	23	39																			
28	18KF1AD430	25	33																			
29	18KF1AD431	23	26																			
30	18KF1AD432	20	38																			
31	18KF1AD433	23	44																			
32	18KF1AD434	21	30																			
33	18KF1AD435	22	33																			
34	18KF1AD436	20	43																			
35	18KF1AD437	22	30																			

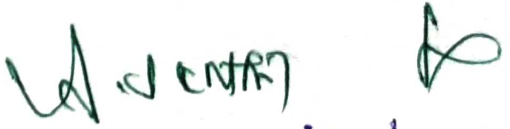
Target	Attainment Level
>=75%	3
>=60%	2
>=50%	1



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36	18KF1A0439	25	35
37	18KF1A0440	27	37
38	18KF1A0441	23	28
39	18KF1A0442	28	38
40	18KF1A0443	23	43
41	18KF1A0444	21	33
42	18KF1A0445	20	33
43	18KF1A0446	20	28
44	18KF1A0447	22	48
45	18KF1A0448	29	40
46	18KF1A0449	29	44
47	18KF1A0450	22	29
48	18KF1A0451	26	25
49	18KF1A0453	23	36
50	18KF1A0454	21	28
51	18KF1A0455	21	29
52	18KF1A0456	23	36
53	19KFS A0401	20	30
54	19KFS A0403	27	44
55	19KFS A0404	20	30
56	19KFS A0405	25	40
57	19KFS A0406	23	37




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EXAMINATION	
Question Paper OBE ANALYSIS	
Course Name : AUTOMOBILE ENGINEERING MECH	Department : _____
Course Code : 15AO1701	Max Marks :100

COs are given equal weightage in all the two Internal Tests (CIIE) /Semester End Examinations (SEE)

Benchmark for CO (0.75*Average CO Mark)	CIIE	SEE
	17	20
No. of Students Above Benchmark	25	23

CO Attainment %	89	79
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Target	Attainment Level
>=70%	3
>=60%	2
>=50%	1

Question	CIIE		SEE		Final CO Attainment Level
	All Questions	All Questions			
Blooms Level	L3	L3,4,4,5			3

Course Outcome	CO 1, 2, 1, 4, 5	CO 1, 2, 3, 4, 5
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Max Marks	30	70
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				CIIE	SEE	FINAL	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
1	18KF1A0301	23	32	3	3	3	2	3														
2	18KF1A0302	18	11	3	3	3	3	1														
3	18KF1A0303	20	2	3	3	3	1	1														
4	18KF1A0304	16	1	3	3	3	1	1														
5	18KF1A0305	25	28	3	3	3	2	1														
6	18KF1A0306	26	30	CO-PO Mapping			2	1														
7	18KF1A0307	27	30	PO Attainment			3	3														
8	18KF1A0308	20	6																			
9	18KF1A0309	16	28																			
10	18KF1A0310	18	25																			
11	18KF1A0312		31																			
12	18KF1A0313	21	4																			
13	18KF1A0314	19	28																			
14	18KF1A0315	15	28																			
15	18KF1A0316	24	28																			
16	18KF1A0317	17	25																			
17	18KF1A0318	30	42																			
18	18KF1A0319	27	38																			
19	18KF1A0322	30	31																			
20	18KF1A0323	18	25																			
21	18KF1A0324	24	27																			
22	19KFS A0301	27	38																			
23	19KFS A0302	27	26																			
24	19KFS A0303	19	14																			
25	19KFS A0304	26	40																			
26	19KFS A0305	27	44																			
27	19KFS A0306	24	38																			
28	19KFS A0307	26	47																			
29	19KFS A0308	20	29																			



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EXAMINATION			BENCHMARK for CO (0.75*Average CO Mark)		CIE	SEE																		
Question Paper OBE ANALYSIS			BENCHMARK for CO (0.75*Average CO Mark)		17	23	Target	Attainment Level																
Course Name : POWER SYSTEM OPERATION AND CONTROL Department : EEE			No. of Students Above Benchmark		24	20	>=70%	3																
Course Code : SSAQ2702 Max Marks :100			CO Attainment %		100	83	>=60%	2																
			Attainment Level		3	3	>=50%	1																
Question	All Questions	All Questions	Final CO Attainment Level																					
Bincms Level	L7	L3,L4,L5																						
Course Outcome	CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5	CIE	SEE	FINAL	PO1	PO2	PO3	PO4	PO5	P16	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02	PS03				
Max Marks	30	20																						
1	18KF1A0201	21	26		CO1	1	3	3	2	3														
2	18KF1A0202	20	38		CO2	1	3	3	3	1														
3	18KF1A0203	20	40		CO3	1	3	3	3	1														
4	18KF1A0204	20	17		CO4	1	3	3	3	1														
5	18KF1A0205	20	30		CO5	1	3	3	2	1														
6	18KF1A0206	25	6		CO-PO Mapping			2	1															
7	18KF1A0207	27	48		PO Attainment			3	3															
8	18KF1A0208	26	36																					
9	18KF1A0209	23	30																					
10	18KF1A0210	25	27																					
11	18KF1A0211	23	43																					
12	18KF1A0213	22	46																					
13	18KF1A0214	21	31																					
14	18KF1A0215	20	6																					
15	19KFSa0201	24	14																					
16	19KFSa0202	20	25																					
17	19KFSa0203	21	39																					
18	19KFSa0204	23	32																					
19	19KFSa0205	20	33																					
20	19KFSa0206	23	40																					
21	19KFSa0207	20	25																					
22	19KFSa0208	20	30																					
23	19KFSa0209	25	25																					
24	19KFSa0210	23	37																					



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EXAMINATION			Benchmark for CO (0.75*Average CO Mark)		IE	SEE																															
Question Paper OBE ANALYSIS					17	23																															
Course Name : FINITE ELEMENT METHODS	Department : CIVIL		No. of Students Above Benchmark		23	23																															
Course Code : ISA01901	Max Marks :100		CO Attainment %		100	95																															
			IE	SEE	Attainment Level																																
Question	All Questions	All Questions	Final CO Attainment Level		3																																
Bloome Level	L3		L3,L4,L5																																		
Course Outcome	CO 1, 2, 3, 4, 5	CO 1, 2, 3, 4, 5			IE	SEE	RNAL	PG1	PG2	PG3	PG4	PG5	PG6	PG7	PG8	PG9	PG10	PG11	PG12	PG13	PG14	PG15	PG16	PG17	PG18	PG19	PG20	PG21	PG22	PG23	PG24	PG25	PG26	PG27	PG28	PG29	PG30
Max Marks	30	70			CO1	1	3	3	2	3																											
1	16KF1A3101	20	29			CO2	1	3	3	1	1																										
2	16KF1A3102	21	32			CO3	1	3	3	1	1																										
3	16KF1A3107	20	27			CO4	1	3	3	2	1																										
4	16KF1A3108	20	29			CO5	1	3	3	2	1																										
5	16KF1A3109	24	36			CO-PO Mapping			1	1																											
6	16KF1A3110	20	42			PO Attainment			1	1																											
7	16KF1A3113	20	30																																		
8	16KF1A3114	21	35																																		
9	16KF1A3116	23	35																																		
10	16KF1A3117	20	37																																		
11	16KF1A3118	20	37																																		
12	16KF1A3120	21	29																																		
13	16KF1A3121	25	42																																		
14	16KF1A3122	23	35																																		
15	16KF1A3123	28	29																																		
16	16KF1A3124	29	40																																		
17	16KF1A3125	23	14																																		
18	16KF1A3126	20	25																																		
19	16KF1A3129	25	29																																		
20	16KFSAD102	20	25																																		
21	16KFSAD104	20	30																																		
22	16KFSAD106	24	25																																		
23	16KFSAD108	20	3																																		

Target	Attainment Level
>=70%	3
>=60%	2
>=50%	1



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