



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

TAMARAM(T) MAKAVARIPALEM(M) ANAKAPALLI-531113

DEPARTMENT OF MECHANICAL ENGINEERING

AY	2023-24
Sem	II nd YEAR I SEM (R20)
Course	KINEMATICS OF MACHINERY
Faculty	V.MOUNIKA

Absent	0
Not attempted	0

COURSE OUTCOMES

CO-1	Contrive a mechanism for a given plane motion with single degree of freedom
CO2	Suggest and analyze a mechanism for a given straight line motion and automobile steering motion
CO3	Analyze the motion (velocity and acceleration) of a plane mechanism.
CO4	Suggest and analyze mechanisms for a prescribed intermittent motion like opening and closing of IC engine valves etc
CO-5	Select a power transmission system for a given application and analyze motion of different transmission systems

CO – PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
CO1	3	2	3	3		2			2		2	3	3
CO2	3	3	3	2		2	2				2	3	3
CO3	3	3	3	2			2				2	3	3
CO4	3	3	2	2		3	2				2	3	3
CO5	3	3	2	2		3	2				2	3	3
Mapping average	3	2.8	2.6	2.2	0	2	1.6		0.4		2	3	3

CO Attainment Table-1

PO Attainment Table-1

S.NO.		MID-1				MID-2				Assignment – 5M			Online – 10M			Descriptive – 30M			End Exam 70M
		Q1	Q2	Q3	Total (15M)	Q1	Q2	Q3	Total (15M)	A1	A2	A	B1	B2	B	C1	C2	C	
		1	22811A0301	0	10	10	10	6	10	0	8	5	5	5	19	16	18	34	
2	22811A0302	10	10	10	15	10	8	10	14	5	5	5	20	20	20	40	39	40	A
3	22811A0303	10	10	10	15	0	0	0	0	4	0	2	19	0	10	38	0	31	C
4	22811A0304	10	9	10	15	7	10	10	14	5	5	5	19	20	20	39	39	39	D
5	22811A0305	0	0	0	0	5	10	10	13	5	5	5	18	20	19	23	38	35	B
6	22811A0306	0	0	0	0	0	0	0	0	5	5	5	18	0	9	23	5	20	F

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7	22811A0307	10	10	8	14	0	10	10	10	5	5	5	18	20	19	37	35	37	F
8	22811A0308	10	8	10	14	6	9	10	13	5	5	5	17	20	19	36	38	38	D
9	22811A0309	5	7	9	11	7	9	5	11	5	5	5	18	20	19	34	36	36	D
10	22811A0310	0	7	9	8	7	5	10	11	5	5	5	18	18	18	31	34	34	B
11	22811A0311	10	5	0	8	6	10	0	8	5	5	5	19	0	10	32	13	29	B
12	22811A0312	10	0	0	5	0	10	10	10	5	5	5	20	19	20	30	34	34	B
13	22811A0313	6	9	0	8	0	5	9	7	4	3	4	18	20	19	30	30	30	F
14	22811A0314	0	0	0	0	5	0	10	8	4	5	5	0	18	7	4	31	26	C
15	22811A0315	0	0	0	0	0	10	10	10	4	1	3	0	17	9	4	28	24	C
16	23815A0301	0	0	0	0	10	10	0	10	5	5	5	20	20	20	25	35	33	B
17	23815A0302	8	10	10	14	10	10	5	13	5	5	5	20	20	20	39	38	39	D
18	23815A0303	7	5	10	11	2	10	10	11	5	5	5	20	13	17	36	29	35	C
19	23815A0304	7	9	0	8	10	10	5	13	5	5	5	18	16	17	31	34	34	B
20	23815A0305	0	5	0	3	1	10	10	11	5	5	5	19	19	19	27	35	34	C
21	23815A0306	7	7	7	11	5	10	9	12	5	5	5	19	19	19	35	36	36	A
22	23815A0307	7	0	10	9	0	10	10	10	5	5	5	20	20	20	34	35	35	B
23	23815A0308	10	10	9	15	10	6	10	13	5	5	5	18	18	18	38	36	38	A
24	23815A0309	10	10	9	15	10	10	0	10	5	5	5	18	10	14	38	25	36	B
25	23815A0310	7	4	5	8	4	10	9	12	5	5	5	13	11	12	26	28	28	D
26	23815A0311	0	0	0	0	0	10	5	8	5	5	5	14	19	17	19	32	30	F
27	23815A0312	9	10	0	10	7	10	10	14	5	5	5	20	10	15	35	29	34	D
28	23815A0313	0	8	0	4	0	10	3	7	5	5	5	18	19	19	27	31	31	F
29	23815A0314	10	10	10	15	10	10	8	14	5	5	5	19	20	20	39	39	39	B
30	23815A0315	0	10	10	10	7	10	10	14	5	5	5	12	15	14	27	34	33	C
31	23815A0316	0	10	8	9	0	9	5	7	5	5	5	18	20	19	32	32	32	D
32	23815A0317	10	10	10	15	10	7	10	14	5	5	5	18	20	19	38	39	39	D
33	23815A0318	10	10	10	15	10	9	9	14	5	5	5	19	19	19	39	38	39	C
34	23815A0319	0	5	0	3	0	10	9	10	5	5	5	16	20	18	24	35	33	D
35	23815A0320	10	10	0	10	10	9	9	14	5	5	5	19	16	18	34	35	35	D
36	23815A0321	9	10	0	10	3	10	10	12	5	5	5	17	20	19	32	37	36	C
37	23815A0322	7	10	7	12	10	10	10	15	5	5	5	18	20	19	35	40	39	C
38	23815A0323	10	10	10	15	10	10	10	15	5	5	5	19	16	18	39	36	39	B
39	23815A0324	10	10	10	15	5	10	10	13	5	5	5	19	20	20	39	38	39	B
40	23815A0325	7	10	9	13	0	4	0	2	5	0	3	19	6	13	37	8	32	C
41	23815A0326	0	0	0	0	5	9	8	11	0	5	3	0	19	10	0	35	28	D
42	23815A0327	0	0	0	0	6	10	10	13	0	5	3	0	10	5	0	28	23	D
43	23815A0328	0	0	0	0	10	10	5	13	0	5	3	0	9	5	0	27	22	D
44	23815A0329	0	0	0	0	5	10	10	13	0	5	3	0	20	10	0	38	31	E
45	23815A0330	0	0	0	0	0	10	10	10	0	5	3	0	20	10	0	35	28	D
46	23815A0331	0	0	0	0	10	9	10	15	0	5	3	0	20	10	0	40	32	E

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47	23815A0332	0	0	0	0	10	0	10	10	0	5	3	0	19	10	0	34	28	F
48	23815A0333	0	0	0	0	10	7	0	9	0	5	3	0	18	9	0	32	26	F
49	23815A0334	0	0	0	0	10	0	10	10	0	5	3	0	20	10	0	35	28	F
50	23815A0335	0	0	0	0	10	10	10	15	0	5	3	0	16	8	0	36	29	E
51	23815A0336	0	0	0	0	0	10	4	7	0	5	3	0	20	10	0	32	26	F
52	23815A0337	0	0	0	0	0	10	5	8	0	5	3	0	19	10	0	32	26	F
53	23815A0338	0	0	0	0	0	9	10	10	0	5	3	0	19	10	0	34	28	C
54	23815A0339	0	0	0	0	10	10	0	10	0	5	3	0	20	10	0	35	28	F
55	23815A0340	0	0	0	0	8	10	0	9	0	5	3	0	20	10	0	34	28	B
56	23815A0341	0	0	0	0	10	10	0	10	0	5	3	0	20	10	0	35	28	E

Maximum Marks Allocated	10	10	10	10	10	10	10	10	15			5			10			30	100
Threshold Mark	7	7	7	10.5	7	7	7	7	10.5			3.5			7			21	>F
Total students appeared	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
Students above Threshold	44	43	45	41	41	45	42	45				37			54			55	45
Percentage attained	78.57143	76.7857	80.357	73.2143	73.214	80.357	75	80.357				66.071			96.42857			98.214	80.35714
CO MAPPING	CO1	CO2	CO3	CO1-CO3	CO5	CO4	CO5	CO4-CO5	CO1-CO3	CO4-CO5	CO1-CO5	CO1-CO3	CO4-CO5	CO1-CO5	CO1-CO3	CO4-CO5	CO1-CO5	CO1-CO5	CO1-CO5
Level	2	2	2	2	2	2	2	2	2			3			3			3	3

Rubrics - Co Attainment:	LEVEL	L.L	-	U.L
Level -1 - <= 70%	LOW - 1(%)	0	-	70
Level -2 - 71-80%	MODERATE -2(%)	71	-	80
Level -3 > 80%	HIGH - 3(%)	81	-	100

Rubrics for PO Attai	LEVEL	L.L	-	U.L
Level -1 - <40%	LOW - 1(%)	0	-	39
Level -2 - 40-60%	MODERATE -2(%)	40	-	60
Level -3 > 60%	HIGH - 3(%)	61	-	100

PO-Attainment Factor = ((0.3C)+(0.7D)) = 3

Overall CO- Attainment Factor:

	CO Level(X1)	PO Attainm ent Factor(X2)	Avarage [X3 = (X1+X2)/2]
CO1	2	3	2.5
CO2	2	3	2.5
CO3	2	3	2.5
CO4	2	3	2.5
CO5	2	3	2.5

END EXAM GRADE	L.L	-	U.L
A+	90	-	100
A	80	-	89
B	70	-	79
C	60	-	69
D	50	-	59

*C: Descriptive =
=IF((Q30>R30),ROUNDUP((0.8*Q30+0.2*R30),0),ROUNDUP((0.8*R30+0.2*Q30),0))

*D:End Exam Marks

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Average	10	15	2.50

Overall Attainment Factor = (Sum of X3)/5 = 2.50

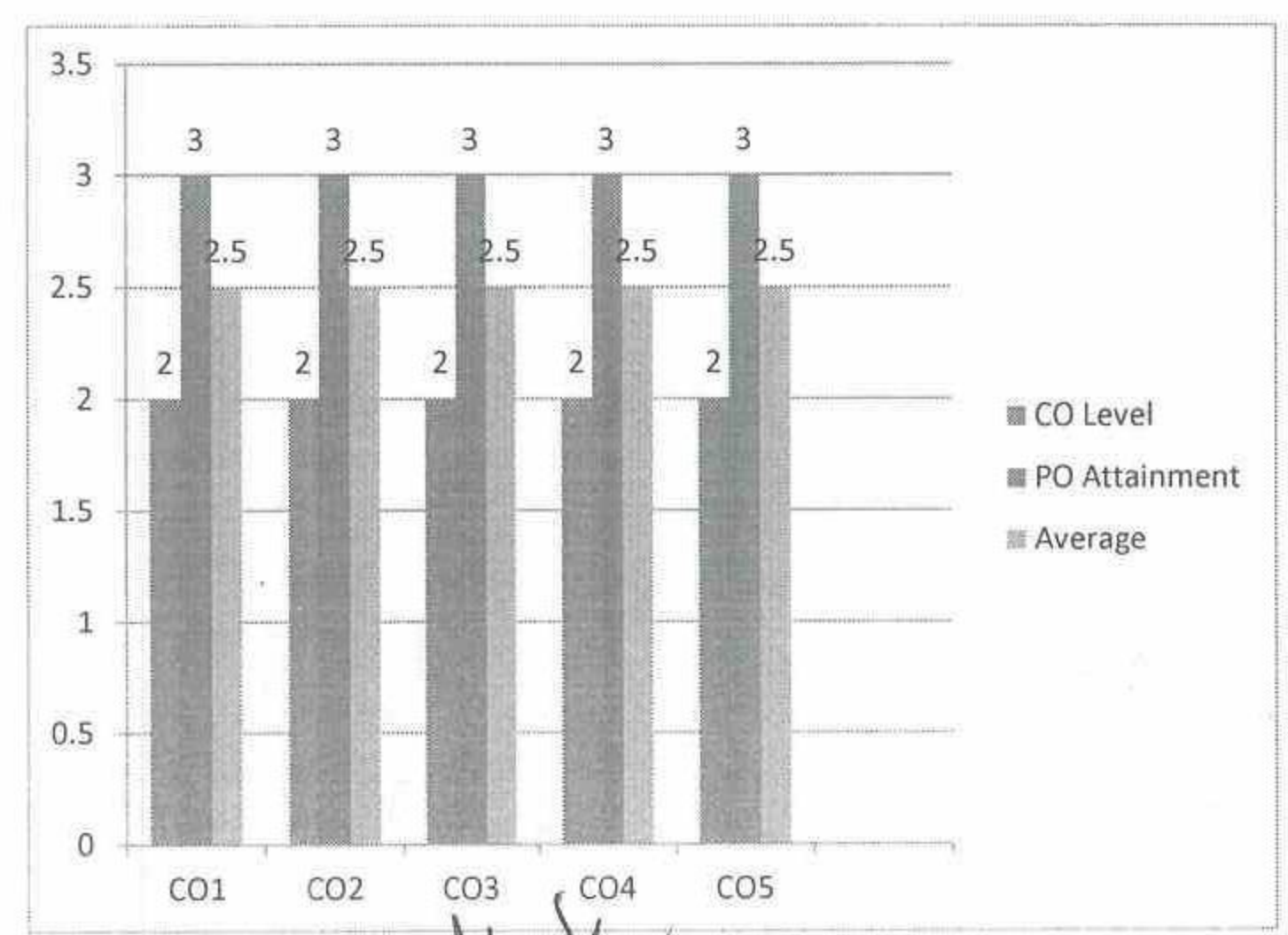
E	40	-	49
F	0	-	39

*** Threshold Value: 40%
 *** CO-Threshold Value: 70%

Average PO Attainment Level

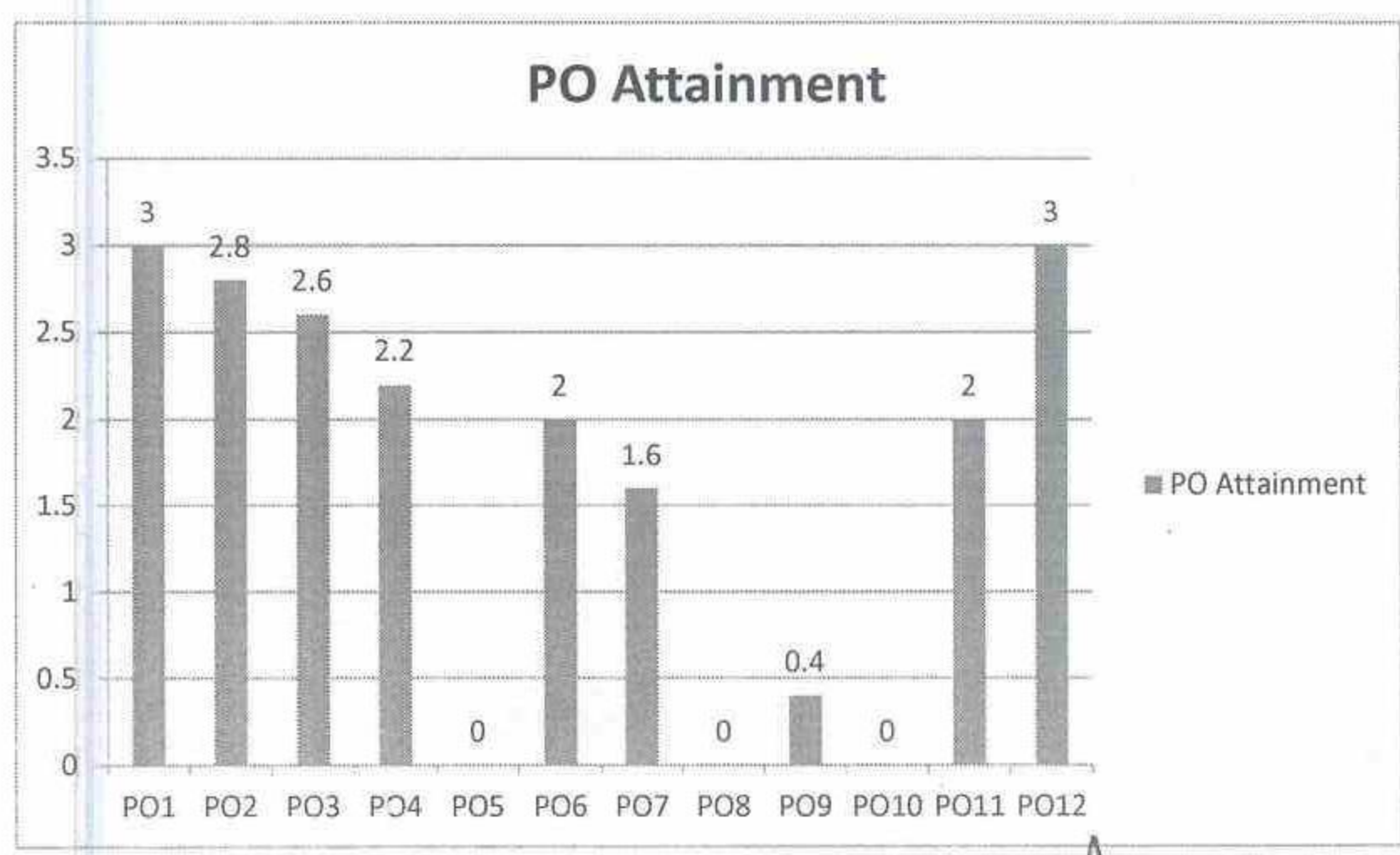
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Mapping Average(R1)	3	2.8	2.6	2.2	0	2	1.6		0.4		2	3
PO attainment Factor(R2)	3	3	3	3	3	3	3	3	3	3	3	3
R3=(R1*R2)/3	3	2.8	2.6	2.2	0	2	1.6	0	0.4	0	2	3

CO-Attainment



Prepared by
 V.MOUNIKA

PO-Attainment



HOD

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TAMARAM(T) MAKAVARIPALEM(M) ANAKAPALLI-531113
DEPARTMENT OF ECE

Branch : ECE
Academic Year : 2023-24
Semester : II Year-I Sem(R-20)
Name of the Course : RVSP
Name of the Faculty : Dr. R. Prasad Rao

COURSE OUTCOMES

CO-1	Identify random variables and Define distribution and density functions. (L1)
CO-2	Determine the properties of a random variable from its probability density and distribution functions. (L3)
CO-3	Illustrate the changes in the properties of random variables upon combining them with other random variables. (L4)
CO-4	Differentiate stochastic and ergodic processes. (L2)
CO-5	Measure the covariance and spectral density of stationary random processes. (L5)
CO-6	Formulate the response of the LTI system with random excitation based on the concepts of Signals and systems. (L6)

CO – PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
CO1	2	2											
CO2		3											
CO3				2									
CO4			2										
CO5		2											
CO6				3	1								
Mapping average	2	2.33333333	2	2.5	1								

S.NO.		CO Attainment Table-1								PO Attainment Table-1									End Exam 75M
		MID-1				MID-2				Assignment – 5M			Online – 10M			Descriptive – 15M			
		Q1	Q2	Q3	Total (15M)	Q1	Q2	Q3	Total (15M)	A1	A2	A	B1	B2	B	C1	C2	C	
1	22811A0402	2.5	4	2.5	9	3.5	2.5	1.5	8	5	5	5	3	1	2	17	14	17	C
2	22811A0403	5	5	5	15	5	5	5	15	5	5	5	5	10	8	25	30	29	C
3	22811A0404	5	5	1.5	12	5	5	1.5	12	5	5	5	3	1	2	20	18	20	F
4	22811A0405	0	0	0	0	5	4	1.5	11	5	5	5	0	0	0	5	16	14	AB
5	22811A0406	5	5	5	15	5	5	5	15	5	5	5	2	4	3	22	24	24	F
6	22811A0407	5	5	5	15	5	2.5	3.5	11	5	5	5	6	10	8	26	26	26	C
7	22811A0408	5	5	0.5	11	5	5	1.5	12	5	5	5	5	10	8	21	27	26	E
8	22811A0409	5	5	2.5	13	5	5	5	15	5	5	5	3	10	7	21	30	29	E
9	22811A0410	5	5	5	15	5	5	5	15	5	5	5	4	10	7	24	30	29	A+
10	22811A0412	5	5	5	15	4	5	4.5	14	5	5	5	3	10	7	23	29	28	A
11	22811A0413	5	5	5	15	5	5	2	12	5	5	5	4	9	7	24	26	26	C
12	22811A0414	5	3.5	5	14	5	5	5	15	5	5	5	3	10	7	22	30	29	D
13	22811A0415	5	5	5	15	5	5	3.5	14	5	5	5	4	3	4	24	22	24	B
14	22811A0416	3.5	5	5	14	5	5	2.5	13	5	5	5	4	5	5	23	23	23	D
15	22811A0417	5	5	5	15	5	4.5	1.5	11	5	5	5	3	8	6	23	24	24	D
16	22811A0418	4	4.5	2.5	11	5	5	5	15	5	5	5	4	2	3	20	22	22	E
17	22811A0419	5	5	5	15	5	5	5	15	5	5	5	7	10	9	27	30	30	E
18	22811A0420	5	5	5	15	5	5	5	15	5	5	5	4	5	5	24	25	25	E
19	22811A0421	5	5	2.5	13	5	5	5	15	5	5	5	4	10	7	22	30	29	E
20	22811A0422	5	5	5	15	5	5	4	14	5	5	5	4	10	7	24	28	28	E
21	22811A0423	5	5	5	15	5	5	2.5	13	5	5	5	2	10	6	22	28	27	E

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22	22811A0424	5	3	4.5	13	5	5	5	15	5	5	5	4	9	7	22	29	28	D
23	22811A0425	5	5	5	15	0.5	0	0	1	5	5	5	3	9	6	23	15	22	D
24	22811A0426	0.5	0	5	6	5	4	1.5	11	5	5	5	2	4	3	13	20	19	F
25	22811A0427	5	3	3.5	12	5	3.5	1.5	10	5	5	5	5	8	7	22	23	23	F
26	22811A0428	5	3	5	13	5	5	4.5	15	5	5	5	3	10	7	21	30	29	D
27	22811A0429	5	5	5	15	5	0	4	9	5	5	5	1	9	5	21	23	23	D
28	22811A0430	3.5	2.5	2.5	9	5	2.5	1.5	9	5	5	5	5	7	6	19	21	21	E
29	22811A0431	2.5	2.5	3	8	5	1.5	3	10	5	5	5	3	10	7	16	25	24	F
30	22811A0432	1.5	5	4.5	11	5	5	1	11	5	5	5	3	8	6	19	24	23	C
31	22811A0433	5	5	5	15	5	4.5	3.5	13	5	5	5	3	3	3	23	21	23	C
32	22811A0434	3.5	2.5	5	11	5	2.5	2	10	5	5	5	3	9	6	19	24	23	F
33	22811A0435	2.5	0.5	2.5	6	5	5	4	14	5	5	5	4	10	7	15	29	27	C
34	22811A0436	5	5	5	15	5	4	0	9	5	5	5	3	10	7	23	24	24	C
35	22811A0437	4.5	2.5	2.5	10	5	4.5	4.5	14	5	5	5	3	9	6	18	28	26	F
36	22811A0438	3	5	5	13	5	2.5	5	13	5	5	5	3	9	6	21	27	26	D
37	22811A0439	1.5	0	2.5	4	5	2	5	12	5	5	5	4	1	3	13	18	17	F
38	22811A0440	3.5	3.5	3.5	11	5	2.5	4	12	5	5	5	5	9	7	21	26	25	F
39	22811A0441	3	5	3.5	12	2.5	2.5	3	8	5	5	5	2	2	2	19	15	19	E
40	22811A0442	3.5	3.5	2.5	10	5	5	1.5	12	5	5	5	3	6	5	18	23	22	B
41	22811A0443	5	5	4.5	15	5	5	3	13	5	5	5	4	10	7	24	28	28	B
42	22811A0444	4	4	4	12	4.5	2.5	1.5	9	5	5	5	2	7	5	19	21	21	C
43	22811A0445	4.5	5	1.5	11	3.5	2	4	10	5	5	5	4	10	7	20	25	24	D
44	22811A0446	0	5	0.5	6	5	3.5	1.5	10	5	5	5	5	10	8	16	25	24	E
45	22811A0447	3.5	2.5	2.5	9	3	2.5	1.5	7	5	5	5	4	10	7	18	22	22	D
46	22811A0448	3	2.5	0	6	4	5	5	14	5	5	5	3	9	6	14	28	26	A
47	22811A0449	5	5	5	15	5	2.5	5	13	5	5	5	3	10	7	23	28	27	B
48	22811A0450	4.5	0	1	6	5	5	4	14	5	5	5	4	9	7	15	28	26	A
49	22811A0451	5	5	4.5	15	5	5	1.5	12	5	5	5	4	10	7	24	27	27	C
50	22811A0452	5	4.5	4.5	14	5	5	4	14	5	5	5	5	6	6	24	25	25	D
51	22811A0453	4.5	3.5	4.5	13	5	5	3.5	14	5	5	5	5	6	6	23	25	25	D
52	22811A0454	5	5	5	15	5	5	5	15	5	5	5	2	10	6	22	30	29	D
53	22811A0455	4.5	5	4.5	14	5	5	5	15	5	5	5	4	10	7	23	30	29	F
54	22811A0456	5	4.5	4	14	5	5	5	15	5	5	5	5	8	7	24	28	28	C
55	22811A0457	5	5	2.5	13	5	5	5	15	5	5	5	4	9	7	22	29	28	D
56	22811A0459	4.5	4	2	11	5	5	1.5	12	5	5	5	2	10	6	18	27	26	F
57	22811A0460	3.5	1.5	2	7	5	5	5	15	5	5	5	5	10	8	17	30	28	C
58	22811A0462	5	4.5	4.5	14	5	5	2.5	13	5	5	5	3	10	7	22	28	27	C
59	22811A0463	3	1.5	0	5	5	5	5	15	5	5	5	3	9	6	13	29	26	C
60	22811A0465	5	4.5	4.5	14	5	4	2.5	12	5	5	5	3	10	7	22	27	26	C
61	22811A0466	3	3.5	0	7	5	5	3	13	5	5	5	3	10	7	15	28	26	F
62	22811A0467	4	5	1	10	5	5	3.5	14	5	5	5	3	10	7	18	29	27	C
63	22811A0468	5	5	5	15	5	5	3.5	14	5	5	5	6	10	8	26	29	29	B
64	22811A0469	5	3.5	4.5	13	5	5	5	15	5	5	5	7	2	5	25	22	25	F
65	22811A0470	5	4	0	9	5	5	5	15	5	5	5	3	9	6	17	29	27	C
66	22811A0471	4	2.5	1.5	8	5	2.5	5	13	5	5	5	4	10	7	17	28	26	F
67	22811A0472	5	2.5	2.5	10	5	5	5	15	5	5	5	4	8	6	19	28	27	C
68	22811A0473	4.5	5	0	10	5	5	5	15	0	0	0	4	10	7	14	25	23	F
69	22811A0474	2.5	1.5	1.5	6	1.5	2.5	2.5	8	5	5	5	4	10	7	15	23	22	C
70	22811A0475	2.5	5	2	10	5	0	1.5	7	5	5	5	3	7	5	18	19	19	C
71	22811A0476	4.5	1	1	7	3.5	0	1	4	5	5	5	5	9	7	17	18	18	F
72	22811A0477	4.5	5	2.5	12	4	2.5	4	11	5	5	5	5	10	8	22	26	26	C
73	22811A0478	5	2	4	11	2.5	2.5	1.5	8	5	5	5	4	10	7	20	23	23	C
74	22811A0479	3.5	4.5	4.5	13	5	5	5	15	5	5	5	5	10	8	23	30	29	D

75	22811A0480	4.5	4.5	4.5	14	2.5	0	4.5	7	5	5	5	3	10	7	22	22	22	E						
76	23815A0401	4	3	4.5	12	5	5	4	14	5	5	5	3	10	7	20	29	28	C						
77	23815A0402	4	2	2	8	5	5	5	15	5	5	5	3	10	7	16	30	28	D						
78	23815A0403	4.5	0.5	4.5	10	5	5	5	15	5	5	5	5	10	8	20	30	28	C						
79	23815A0404	4	0	4.5	9	5	5	4	14	5	5	5	3	7	5	17	26	25	E						
80	23815A0405	3.5	0	4.5	8	0	3.5	4	8	5	5	5	3	4	4	16	17	17	C						
81	23815A0406	5	2	4	11	3	1.5	4	9	5	5	5	3	9	6	19	23	23	D						
82	23815A0407	5	5	5	15	5	5	5	15	5	5	5	6	10	8	26	30	30	C						
83	23815A0408	4	5	5	14	5	5	5	15	5	5	5	5	9	7	24	29	28	C						
84	23815A0409	0	1	0	1	0.5	0	0	1	5	5	5	5	8	7	11	14	14	AB						
85	23815A0410	3.5	3	4.5	11	5	5	5	15	5	5	5	4	10	7	20	30	28	D						
86	23815A0411	5	5	4.5	15	5	5	4.5	15	5	5	5	6	10	8	26	30	30	C						
87	23815A0412	5	5	5	15	5	5	5	15	5	5	5	3	10	7	23	30	29	D						
88	23815A0413	5	4.5	3	13	5	5	5	12	5	5	5	4	10	7	22	27	26	F						
89	23815A0414	5	2.5	5	13	5	2.5	5	13	5	5	5	4	10	7	22	27	26	F						
90	23815A0415	5	2.5	3.5	11	5	5	5	12	5	5	5	2	10	6	20	28	27	F						
91	23815A0416	4.5	2.5	4	11	5	5	2	12	5	5	5	4	9	7	20	26	25	D						
92	23815A0417	4	5	4.5	14	5	5	1.5	12	5	5	5	4	10	7	20	27	26	D						
93	23815A0418	5	4.5	4	14	5	1.5	5.5	10	5	5	5	6	10	8	25	27	27	F						
94	23815A0419	4.5	4.5	0	9	5	5	1.5	12	5	5	5	3	10	7	22	25	25	D						
95	23815A0420	5	4.5	2.5	12	5	4.5	0	10	5	5	5	4	9	7	18	26	25	F						
96	23815A0421	4.5	2.5	3.5	11	4.5	5	1	11	5	5	5	2	9	6	19	24	23	D						
97	23815A0422	4	1.5	4.5	10	0	3	5	8	5	5	5	4	10	7	20	26	25	D						
98	23815A0423	4	4	5	13	3.5	4.5	5	13	5	5	5	2	0	1	17	13	17	E						
99	23815A0424	2.5	5	4	12	5	5	2	12	5	5	5	3	9	6	21	27	26	D						
100	23815A0425	2.5	2.5	4	9	3	2.5	1.5	7	5	5	5	4	7	6	18	19	19	E						
101	23815A0426	3	4.5	4.5	12	5	5	5	15	5	5	5	3	10	7	20	30	28	D						
102	23815A0427	5	5	4.5	15	5	5	5	15	5	5	5	2	10	6	22	30	29	D						
103	23815A0428	5	4	5	14	5	5	5	15	5	5	5	5	10	8	24	30	29	B						
104	23815A0429	3.5	2.5	2	8	4.5	5	4.5	14	5	5	5	3	10	7	16	29	27	A						
105	23815A0430	5	3.5	4.5	13	5	2.5	4.5	12	5	5	5	4	10	7	22	27	26	F						
Maximum Marks Allocated		5	5	5	15	10	10	10	15			5			10	15	15	15	100						
Threshold Mark		2	2	2	6	4	4	4	6			2			4	6	6	6	>F						
Total students appeared		105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105						
Students above Threshold		99	91	88	101	90	73	57	102			104			95			67	84						
Percentage attained		94.28571429	86.66666667	83.8095	96.1905	85.71429	69.5238	54.28571	97.14286			99.047619			90.47619048			63.809524	80						
CO MAPPING		CO1	CO2	CO3	CO1-CO3	CO4	CO5	CO6	CO4-CO6	CO1-CO3	CO4-CO6	CO1-CO6	CO1-CO3	CO4-CO6	CO1-CO6	CO1-CO3	CO4-CO6	CO1-CO6	CO1-CO6						
Level		3	3	3	3	3	2	1	3			3			3			3	3						
Rubrics - Co Attainment:		LEVEL		L.L	-	U.L													Rubrics for PO Attainment:		LEVEL		L.L	-	U.L
Level -1 - < 65%		LOW - 1(%)		0	-	65													Level -1 - <40%		LOW - 1(%)		0	-	39
Level -2 - 66-75%		MODERATE -2(%)		66	-	75													Level -2 - 40-60%		MODERATE -2(%)		40	-	60
Level -3 > 75%		HIGH - 3(%)		76	-	100													Level -3 > 60%		HIGH - 3(%)		61	-	100


Principal
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Tamaram, Makavarapalem Md.,
Anakapalli District., Pin: 531 113

PO-Attainment Factor = ((0.3C)+(0.7D)) =

3

Overall CO- Attainment Factor:

	CO Level(C1)	PO Attainment Factor(C2)	Average (C3) = (C1+C2)/2
CO1	3	3	3
CO2	3	3	3
CO3	3	3	3
CO4	3	3	3
CO5	2	3	2.5
CO6	1	3	2
Average	15	18	2.75

Overall Attainment Factor = (Sum of C3)/6 = 2.75

END EXAM GRADE	L.L		U.L
A+	90	-	100
A	80	-	89
B	70	-	79
C	60	-	69
D	50	-	59
E	40	-	49
F	0	-	39

*C: Descriptive =
=IF((Q30>R30),ROUNDUP((0.8*Q30+0.2*R30),0),ROUNDUP((0.8*R30+0.2*Q30),0))

*D:End Exam Marks

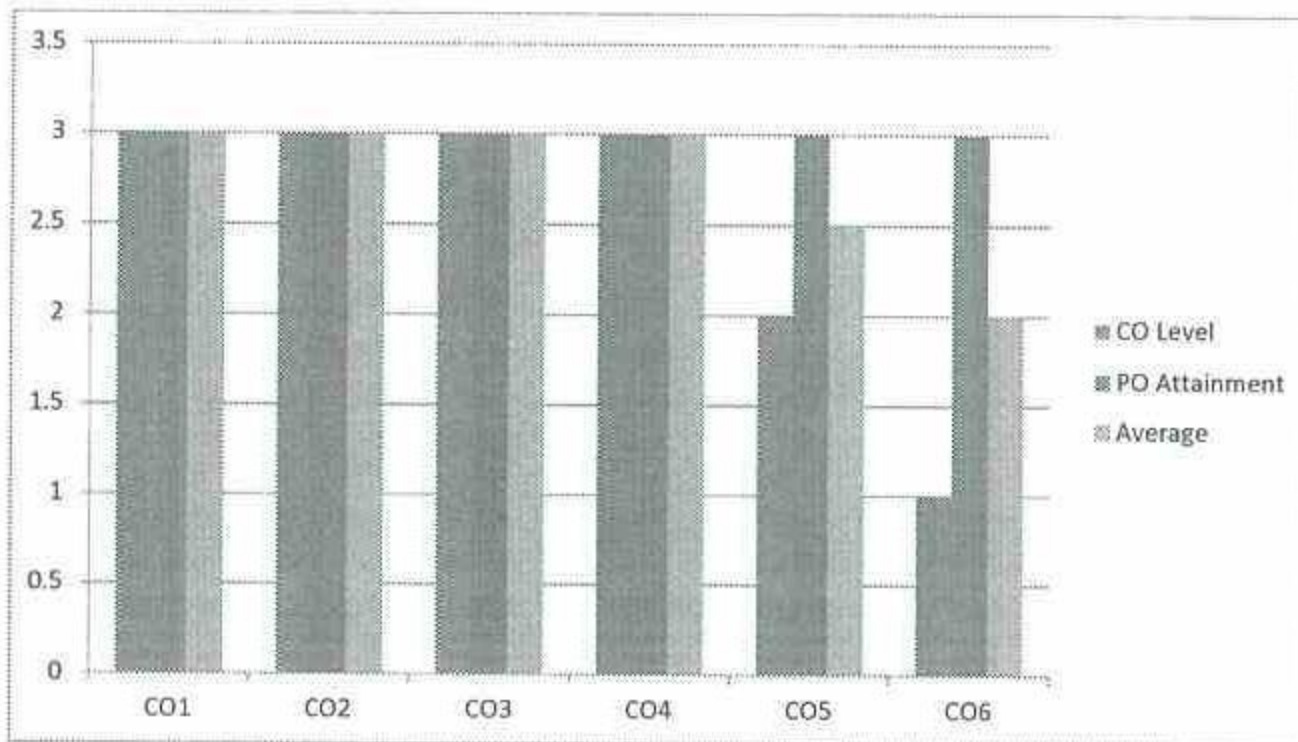
*** Threshold Value: 40%

*** CO-Threshold Value: 80%

Average PO Attainment Level

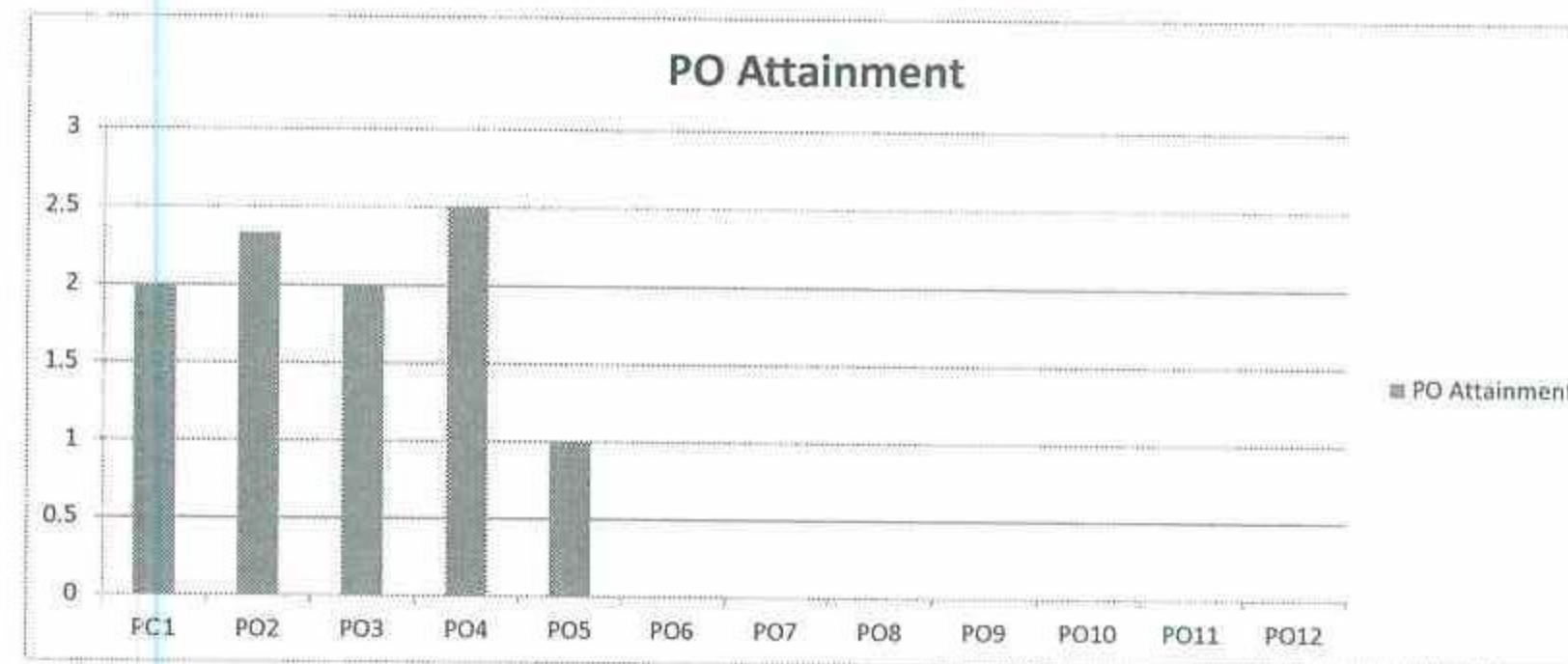
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Mapping Average(R1)	2	2.33333333	2	2.5	1	0	0		0		0	0
PO attainment	3	3	3	3	3	3	3	3	3	3	3	3
R3=(R1XR2)/3	2	2.33333333	2	2.5	1	0	0	0	0	0	0	0

CO-Attainment



Prepared by
Dr. R. Prasad Rao

PO-Attainment



HOD

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