



Dr.T.Thimmaiah Institute of Technology

Oorgaam, K.G.F-563120

SEM	VII
Subject	CE
Batch	2018

Name of the faculty	SAGAR S
Subject code:	17ME73
Total Students	52

CO'S	Description
CO1	Recognize the control system and its types, control actions and different types of controllers.
CO2	Analyze and Examine the system governing equations of a physical models and to determine the gain of a system using block diagrams and signal flow graphs.
CO3	Illustrate the response of 1st order and 2nd order system and to analyze the transfer function stability using Root Locus Plots.
CO4	Determine the stability of TF using Bode Plot, Polar Plots and Nyquist Plots.
CO5	Employ state equations to study the compensators, Controllability and Observability.
CO6	

Grading Scale	Level
Score < 40	0
Score 40 to 45	1
Score 45 to 50	2
Score > 50	3

Target Percentage	50
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CO's	T1	T2	T3	A	T	Q	Total Marks	External Marks
CO1	10						10	60
CO2	20					10	30	
CO3		20		10			30	
CO4			20		10		30	
CO5		10	10				20	
CO6							0	

Sl No	USN	Students Name
1	1GV15ME047	Archana
2	1GV16ME009	Gajendra
3	1GV16ME023	Pavan
4	1GV16ME034	Sanjay S
5	1GV16ME054	Shashi Kiran. P
6	1GV17ME002	Abhishek Kumar
7	1GV17ME004	S. Akshay Korre
8	1GV17ME006	Akshay S
9	1GV17ME007	Bhargav
10	1GV17ME008	Nikhil
11	1GV17ME011	Girish. J. K
12	1GV17ME012	Gowamma. N
13	1GV17ME013	Pradyumna
14	1GV17ME014	Haris
15	1GV17ME015	Hemanth Kumar. R
16	1GV17ME016	Hemanth L.G
17	1GV17ME017	Jagannatha. S
18	1GV17ME020	Kishore
19	1GV17ME021	Mahesh.S
20	1GV17ME022	Prem Kumar. J
21	1GV17ME027	Sridhar S
22	1GV17ME028	Surekha.P
23	1GV17ME029	Syed Raiyan
24	1GV17ME030	Tejas
25	1GV17ME031	Thejeswini. M
26	1GV17ME032	Vignesh
27	1GV17ME035	Vishnu
28	1GV17ME036	Wasi Ulla Khan Junaid
29	1GV17ME038	Chethan
30	1GV17ME039	Preetha. K
31	1GV17ME040	Syed Shahzama S
32	1GV17ME041	Sabahat
33	1GV17ME042	Abirami.V
34	1GV18ME400	Abirami R
35	1GV18ME401	Altamesh
36	1GV18ME402	Aravindhan. M. R

CO Marks in Tests												
Test 1			Q	Test 2			A	Test 3			T	
CO1	CO2	CO2	CO2	CO3	CO3	CO5	CO3	CO4	CO4	CO5	CO4	
9	7	8	8	7	7	7	10	10	10	10	9	
5	9	7	8	7	7	9	10	0	0	9	9	
10	7	3	7	8	7	10	10	0	0	9	10	
10	8	8	9	9	10	10	10	8	4	10	7	
8	8	8	9	7	7	8	10	1	0	9	1	
10	10	8	9	9	8	10	10	10	6	9	9	
9	7	8	9	8	8	8	10	7	5	8	7	
6	10	8	9	9	9	10	10	10	7	10	10	
10	10	7	9	8	8	10	10	9	6	10	9	
9	9	7	9	8	8	10	10	10	7	10	9	
9	0	6	9	6	7	0	10	6	5	10	8	
10	8	9	9	8	8	9	10	10	7	10	10	
10	10	9	9	10	9	9	10	10	10	10	10	
9	9	9	9	6	0	9	10	10	10	0	8	
9	9	9	9	7	5	9	10	8	7	10	5	
9	9	0	9	7	0	4	10	10	6	10	8	
9	10	8	9	10	8	9	10	9	7	10	9	
9	8	7	9	7	8	9	10	7	5	10	8	
8	8	8	9	8	8	9	10	9	8	8	8	
10	10	8	9	8	7	10	10	10	7	10	10	
9	8	2	9	0	9	4	10	7	1	10	8	
10	10	8	9	8	8	9	10	9	8	10	8	
10	10	9	9	8	8	10	10	10	9	10	10	
9	10	9	5	4	8	10	10	10	10	5	9	
9	6	9	8	8	10	10	10	10	7	10	9	
9	9	5	9	6	6	9	10	9	8	9	9	
10	9	9	9	8	8	10	10	8	7	10	8	
10	9	10	9	8	7	9	10	6	6	10	9	
10	9	9	9	8	10	10	10	10	6	10	8	
10	10	6	8	7	7	9	10	7	3	8	9	
9	8	8	9	7	47	8	10	9	8	9	9	
10	9	6	8	9	8	10	10	9	7	10	5	
10	10	10	8	10	10	10	10	10	10	10	9	
9	8	8	8	7	9	10	10	9	7	8	8	
5	8	8	9	8	8	8	10	10	7	10	9	
10	7	8	9	8	8	9	10	9	8	7	8	

Attainment of CO's											
CO1		CO2		CO3		CO4		CO5		CO6	
M	%	M	%	M	%	M	%	M	%	M	%
9	90	23	77	24	80	28	93	17	85	0	###
5	50	24	80	24	80	9	30	18	90	0	###
10	100	17	57	25	83	10	33	19	95	0	###
10	100	25	83	29	97	19	63	20	100	0	###
8	80	25	83	24	80	2	7	17	85	0	###
10	100	27	90	27	90	25	82	19	95	0	###
9	90	24	80	26	87	19	63	16	80	0	###
6	60	27	90	28	93	27	88	20	100	0	###
10	100	26	87	26	87	24	80	20	100	0	###
9	90	25	83	26	87	26	87	20	100	0	###
9	90	15	50	23	77	19	63	10	50	0	###
10	100	26	87	26	87	27	88	19	95	0	###
10	100	28	93	29	97	30	100	19	95	0	###
9	90	27	90	16	53	28	93	9	45	0	###
9	90	27	90	22	73	20	67	19	95	0	###
9	90	18	60	17	57	24	80	14	70	0	###
9	90	27	90	28	93	25	82	19	95	0	###
9	90	24	80	25	83	20	65	19	95	0	###
8	80	25	83	26	87	25	83	17	85	0	###
10	100	27	90	25	83	27	90	20	100	0	###
9	90	19	63	19	63	16	53	14	70	0	###
10	100	27	90	26	87	25	83	19	93	0	###
10	100	28	93	26	87	29	97	20	100	0	###
9	90	24	80	22	73	29	97	15	75	0	###
9	90	23	77	28	92	26	85	20	100	0	###
9	90	23	77	22	73	26	87	18	88	0	###
10	100	27	90	26	87	23	77	20	100	0	###
10	100	28	93	25	83	21	70	19	95	0	###
10	100	27	90	28	93	24	80	20	100	0	###
10	100	24	80	24	80	19	63	17	85	0	###
9	90	25	83	64	213	25	83	17	85	0	###
10	100	23	77	27	90	21	70	20	100	0	###
10	100	28	93	30	100	29	97	20	100	0	###
9	90	24	80	26	87	24	78	18	90	0	###
5	50	25	83	26	87	26	85	18	90	0	###
10	100	24	80	26	87	25	83	16	80	0	###

VTU	
All CO	
M	%
29	48
9	15
21	35
33	55
15	25
30	50
21	35
12	20
23	38
35	58
15	25
26	43
30	50
21	35
21	35
11	18
36	60
26	43
21	35
25	42
21	35
29	48
21	35
30	50
9	15
21	35
27	45
22	37
30	50
23	38
31	52
33	55
30	50
27	45
21	35
21	35

37	1GV18ME403	Chandra Kumar. J
38	1GV18ME404	Divakar. R
39	1GV18ME405	Gowtham. R
40	1GV18ME406	Jaya Kumar. C
41	1GV18ME407	Manoj. G. J
42	1GV18ME408	Mathew Susil W
43	1GV18ME409	Menaga M
44	1GV18ME413	Raviraj. R. N
45	1GV18ME414	Shreyas
46	1GV18ME415	Sowmya. S
47	1GV18ME416	Stalin . B
48	1GV18ME417	Subash Karan. S
49	1GV18ME419	Sunil Kumar. D
50	1GV18ME420	Sarathy. V
51	1GV18ME421	Vinodh Kumar M
52	1GV18ME422	Yuvuraj. S

8	7	7	5	8	7	8	10	0	0	10	7
10	8	8	7	4	0	8	10	0	0	7	5
9	8	2	9	5	8	8	10	8	8	10	6
10	9	7	9	8	8	8	10	6	2	10	7
9	9	7	9	8	7	8	10	10	8	10	7
10	10	8	9	10	8	10	10	10	9	10	10
8	10	9	8	10	10	10	10	8	7	10	10
9	9	8	7	9	0	9	10	0	0	9	6
9	9	8	9	8	9	9	10	0	0	9	3
9	9	8	7	8	9	10	10	10	7	10	9
10	8	8	9	9	9	10	10	0	0	0	2
10	9	8	9	8	8	9	10	7	7	8	8
9	8	9	9	8	8	10	10	10	10	9	10
9	9	9	9	9	8	10	10	10	8	10	10
9	9	8	7	4	9	10	10	3	2	9	6
9	9	9	9	7	8	9	10	3	3	9	9

8	80	19	63	25	83	7	23	18	90	0	###
10	100	23	77	14	47	5	17	15	75	0	###
9	90	19	63	23	77	22	73	18	90	0	###
10	100	25	83	26	87	15	50	18	90	0	###
9	90	25	83	25	83	25	83	18	90	0	###
10	100	27	90	28	93	29	95	20	100	0	###
8	80	27	90	30	100	25	83	20	100	0	###
9	90	24	80	19	63	6	20	18	90	0	###
9	90	26	87	27	90	3	10	18	90	0	###
9	90	24	80	27	90	26	87	20	100	0	###
10	100	25	83	28	93	2	7	10	50	0	###
10	100	26	87	26	87	22	72	17	85	0	###
9	90	26	87	26	87	29	97	19	95	0	###
9	90	27	90	27	90	28	93	20	100	0	###
9	90	24	80	23	77	11	37	19	95	0	###
9	90	27	90	25	83	15	50	18	88	0	###
CO1	52	CO2	52	CO3	51	CO4	43	CO5	51	CO6	0

15	25
12	20
23	38
32	53
27	45
40	67
27	45
24	40
23	38
45	75
15	25
27	45
37	62
24	40
21	35
36	60
VTU	15

TARGET is 50% marks
Attainment level 1: 40% students scoring more than 50% marks
Attainment level 2: 45% students scoring more than 50% marks
Attainment level 3: 50% students scoring more than 50% marks

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For Internal Assessment)						
CO'S	CO1	CO2	CO3	CO4	CO5	CO6
Number of Students Scored above 50% of Marks	52	52	51	43	51	0
Number of Students attempted the test	52	52	52	52	52	52
% OF STUDENTS	100.00	100.00	98.08	82.69	98.08	
Attainment Level	3	3	3	3	3	

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For University Examination)	
Number of Students Scored above 50% of Marks	15
Number of Students attempted the Examination	52
% OF STUDENTS	28.84615385
Attainment Level	0

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	0.57
CO2	0.57
CO3	0.57
CO4	0.50
CO5	0.57
CO6	

CO attainment using Course survey	
CO1	0.8
CO2	0.87
CO3	0.6
CO4	0.7
CO5	0.76
CO6	

Overall CO attainment	
CO1	0.618
CO2	0.632
CO3	0.572
CO4	0.543
CO5	0.604
CO6	

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	1	1									
CO2	2	2	2									
CO3	2	2	2									
CO4	2	2	2									
CO5	3	2	2									
CO6												
Total	12	9	9	0	0	0	0	0	0	0	0	0
PO AVERAGE	2.40	1.80	1.80									

PSO MAPPING

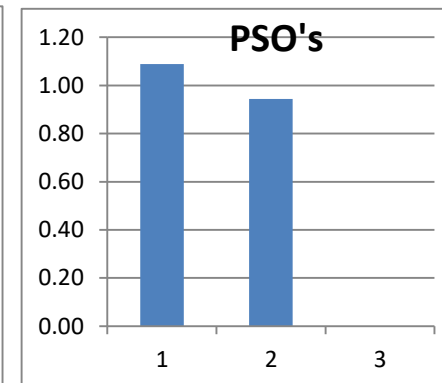
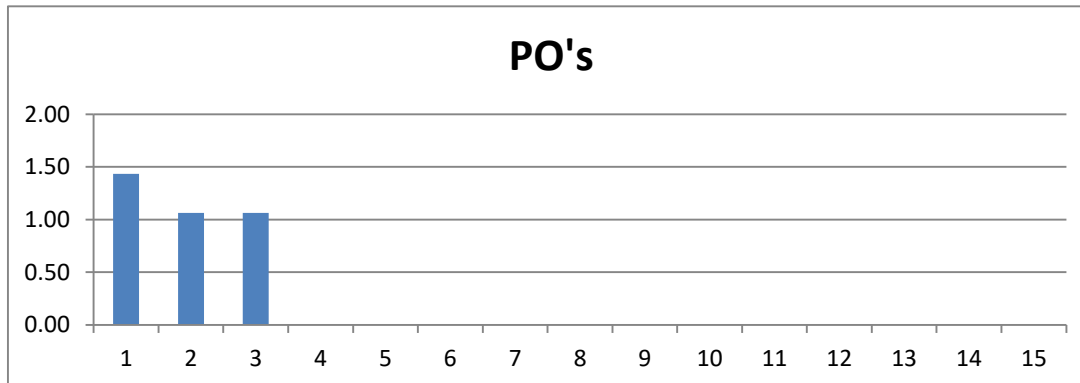
CO'S	1	2	3
CO1	3	1	
CO2	2	2	
CO3	1	2	
CO4	1	2	
CO5	2	1	
CO6			
Total	9	8	0
PSO AVERAGE	1.80	1.60	

ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1.86	0.62	0.62									
CO2	1.26	1.26	1.26									
CO3	1.14	1.14	1.14									
CO4	1.09	1.09	1.09									
CO5	1.81	1.21	1.21									
CO6												
PO AVERAGE	1.43	1.06	1.06									

ATTAINMENT

CO'S	1	2	3
CO1	1.86	0.62	
CO2	1.26	1.26	
CO3	0.57	1.14	
CO4	0.54	1.09	
CO5	1.21	0.60	
CO6			
PSO AVERAGE	1.09	0.94	



Prepared by
Dr. P D Sudersanan, Dr.TTIT, K.G.F.



Dr.T.Thimmaiah Institute of Technology

Oorgaam, K.G.F-563120

SEM	3
Subject	Mechanics of Materials
Batch	2018-22

Name of the faculty	Dr.P.D.Sudersanan
Subject code:	18ME32
Total Students	51

CO'S	Description
CO1	Describe simple, compound, thermal stresses and strains, their relations and strain energy
CO2	Interpret and compute the stresses, strains and deformations in structural members
CO3	Sketch the shear force and bending moment variation for statically determinate beams
CO4	Analyze the solid and hollow circular shafts subjected to torque
CO5	Analyze short and long columns for stability
CO6	

Grading Scale	Level
Score < 40	0
Score 40 to 45	1
Score 45 to 50	2
Score > 50	3

Target Percentage	50
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CO's	T1	T2	T3	A	T	Q	Total Marks	External Marks
CO1	20						12	60
CO2	30			30			28	
CO3		40				30	34	
CO4		10					6	
CO5			50		30		40	
CO6							0	

Sl No	USN	Students Name
2	1GV17ME025	SANTHOSH. S
3	1GV17ME026	SREEJITH
4	1GV17ME033	VIGNESH VAREN
5	1GV17ME043	KIRAN
6	1GV18ME001	ABINESH J
7	1GV18ME002	AJAY P
8	1GV18ME005	ASHWIN M RAJU
9	1GV18ME006	DANIEL MERVYN F
10	1GV18ME007	GAUTAM SUSHANTH J
11	1GV18ME008	HARSHAJITH I
12	1GV18ME010	LOHITH V
13	1GV18ME012	MATHEW JONAS G
14	1GV18ME016	ROSHAN U
15	1GV18ME017	SACHIN L RATHOD
16	1GV18ME018	SAI KIRAN S
17	1GV18ME022	YASHASWINI M N
18	1GV19ME400	ABILASH L
19	1GV19ME401	ABINASH S
20	1GV19ME402	AJAY KUMAR K
21	1GV19ME403	ALLWYN PAUL
22	1GV19ME404	AVINASH S
23	1GV19ME405	DILIP KUMAR S
24	1GV19ME406	DINESH KUMAR S
25	1GV19ME407	GRITTO A
26	1GV19ME408	HEMANTH KUMAR T
27	1GV19ME409	HEMAVATHY V
28	1GV19ME410	INDRA KUMAR S
29	1GV19ME411	ISRAEL
30	1GV19ME412	JENIVARAYA FRANCIS
31	1GV19ME413	KALYAN PRASAD K
32	1GV19ME414	KARTHICK K
33	1GV19ME415	KARTHIKEYAN V
34	1GV19ME416	KISHORE KUMAR R
35	1GV19ME417	LAKSHMANA K
36	1GV19ME418	MOHAMED MAAZ K

CO Marks in Tests												
Test 1			A	Test 2			Q	Test 3			T	
CO1	CO2	CO4	CO2	CO3	CO4	CO2	CO3	CO5	CO6	CO4	CO5	
20	5		29	24	8		15	33			30	
17	1			0	0			0			29	
11	0		29	13	5		12	20			30	
			30	13	10		18	21			30	
18	10		29	16	4		15	47			30	
				33	10		15	43			30	
13	13		29	5	10		21	21			29	
20	8		30	20	10		15	48			29	
10	5		29	18	2		15	40			29	
9	22		30	33	10		18	43			29	
9	6			20			9	31			29	
8	2		26	23	8		21	47			29	
4	1		29	2	8		15	20			29	
17	3		30	30	10		21	40			30	
20	4		30	31	10		18	45			30	
14	19		30	25	10		12	50			30	
14	9		29	25	5		21	30			29	
20	22		29	30	10		24	42			30	
			28	0	0		12	13			29	
	2		29	0	0		9	21			29	
	7			1	2		9	28			29	
10	16		30	3			9	28			30	
	23		29	5			21	33			30	
	30		29	22			24	17			29	
	29		29	15			21	30			29	
8	20		30	3	10		21	26			30	
	10		28	11			9	15			29	
	30		28	37	10		9	50			30	
	25		29	3			12	23			29	
	10		29	11	5		18	23			29	
	28		30	15	10		15	41			29	
20	30		30	40	10		27	50			30	
10	27		29	34	8		15	50			30	
15	30		30	40	10		15	50			30	
2	21		29	20	10		12	27			30	

Attainment of CO's											
CO1		CO2		CO3		CO4		CO5		CO6	
M	%	M	%	M	%	M	%	M	%	M	%
0	0	0	0	2	6	0	0	0	0	0	###
12	100	13	45	19	57	5	80	30	74	0	###
10	85	1	2	0	0	0	0	10	24	0	###
7	55	10	35	12	35	3	50	22	55	0	###
0	0	10	36	14	41	6	100	23	56	0	###
11	90	16	56	15	43	2	40	38	95	0	###
0	0	0	0	25	73	6	100	36	89	0	###
8	65	17	62	10	29	6	100	22	56	0	###
12	100	15	53	17	50	6	100	38	96	0	###
6	50	13	45	16	46	1	20	34	84	0	###
5	45	23	83	26	76	6	100	35	89	0	###
5	45	4	13	15	44	0	0	28	71	0	###
5	40	10	35	21	61	5	80	38	95	0	###
2	20	10	37	6	18	5	80	22	54	0	###
10	85	12	42	25	74	6	100	34	85	0	###
12	100	12	44	25	72	6	100	37	92	0	###
8	70	21	76	19	56	6	100	40	100	0	###
8	70	15	54	22	65	3	50	28	69	0	###
12	100	23	82	26	76	6	100	35	88	0	###
0	0	9	33	4	12	0	0	17	44	0	###
0	0	11	39	3	9	0	0	22	56	0	###
0	0	4	15	4	11	1	20	26	66	0	###
6	50	20	70	5	14	0	0	27	67	0	###
0	0	23	84	10	29	0	0	30	74	0	###
0	0	28	99	21	62	0	0	20	50	0	###
0	0	27	97	16	47	0	0	28	69	0	###
5	40	22	79	9	26	6	100	26	64	0	###
0	0	15	55	10	28	0	0	19	47	0	###
0	0	27	98	25	74	6	100	40	100	0	###
0	0	25	88	6	17	0	0	23	59	0	###
0	0	16	56	13	37	3	50	23	59	0	###
0	0	27	96	14	41	6	100	34	86	0	###
12	100	28	100	33	97	6	100	40	100	0	###
6	50	26	92	25	75	5	80	40	100	0	###
9	75	28	100	29	85	6	100	40	100	0	###
1	10	22	80	16	47	6	100	26	65	0	###

VTU	
All CO	
M	%
	0
12	20
4	7
13	22
21	35
23	38
22	37
15	25
23	38
17	28
23	38
12	20
30	50
16	27
26	43
32	53
32	53
27	45
35	58
14	23
2	3
16	27
18	30
18	30
21	35
21	35
10	17
12	20
36	60
15	25
17	28
21	35
48	80
32	53
45	75
35	58

37	1GV19ME419	PRAKASH R
38	1GV19ME420	PREM M
39	1GV19ME421	PROMOTH KUMAR P
40	1GV19ME422	RAHIL BABU D
41	1GV19ME423	RAKESH D
42	1GV19ME424	RAMA K
43	1GV19ME425	RENALD VISHWA A
44	1GV19ME426	SANJAY KUMAR K
45	1GV19ME427	SHAKTHISHWARAN C
46	1GV19ME428	SUDHARSHAN S
47	1GV19ME429	SUJITH V
48	1GV19ME430	THOUSIF PASHA F
49	1GV19ME431	VINAY V
50	1GV19ME432	VINOD KUMAR K V
51	1GV19ME433	YESHWANTH KUMAR

10	30		30	38	10		21	50			30
10	21		29	31	10		15	31			30
	5		28	5			12	15			
10	28		29	31	10		15	37			30
10	30		29	36	10		21	48			30
20	30		30	40	10		15	50			30
4	26		23	25	10		9	48			30
19	30		30	38	10		27	50			30
				0	0		9	2			30
8	12		29	2	8		15	37			29
8	16		29	35	10		6	50			30
5	20		29	32	10		12	46			30
8	23		28	33	10		12	42			26
	17		29	15	5		15	16			29
10	23		29	28	10		12	21			

6	50	28	100	30	88	6	100	40	100	0	###	33	55
6	50	22	80	24	69	6	100	29	71	0	###	33	55
0	0	12	44	7	21	0	0	9	23	0	###	4	7
6	50	26	95	24	69	6	100	32	80	0	###	28	47
6	50	28	99	29	84	6	100	39	97	0	###	33	55
12	100	28	100	29	85	6	100	40	100	0	###	50	83
2	20	23	83	18	53	6	100	39	97	0	###	43	72
11	95	28	100	32	94	6	100	40	100	0	###	36	60
0	0	0	0	3	9	0	0	11	28	0	###	2	3
5	40	17	60	6	18	5	80	32	80	0	###	17	28
5	40	19	69	23	68	6	100	40	100	0	###	36	60
3	25	22	77	23	68	6	100	38	94	0	###	17	28
5	40	23	83	24	70	6	100	34	85	0	###	27	45
0	0	20	71	14	41	3	50	19	48	0	###	5	8
6	50	23	84	21	61	6	100	13	32	0	###	26	43
CO1	23	CO2	34	CO3	26	CO4	35	CO5	42	CO6	0	VTU	16

TARGET is 50% marks
Attainment level 1: 40% students scoring more than 50% marks
Attainment level 2: 45% students scoring more than 50% marks
Attainment level 3: 50% students scoring more than 50% marks

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For Internal Assessment)						
CO'S	CO1	CO2	CO3	CO4	CO5	CO6
Number of Students Scored above 50% of Marks	23	34	26	35	42	0
Number of Students attempted the test	51	51	51	51	51	51
% OF STUDENTS	45.10	66.67	50.98	68.63	82.35	
Attainment Level	2	3	3	3	3	

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For University Examination)	
Number of Students Scored above 50% of Marks	16
Number of Students attempted the Examination	51
% OF STUDENTS	31.37254902
Attainment Level	0

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	0.37
CO2	0.45
CO3	0.39
CO4	0.46
CO5	0.52
CO6	

CO attainment using Course survey	
CO1	0.894
CO2	0.848
CO3	0.939
CO4	0.924
CO5	0.939
CO6	

Overall CO attainment	
CO1	0.474
CO2	0.534
CO3	0.502
CO4	0.555
CO5	0.602
CO6	

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1	1										
CO2	3	2	1									
CO3	3	3	1									
CO4	3	3	1									
CO5	3	3	1									
CO6												
Total	13	12	4	0	0	0	0	0	0	0	0	0
PO AVERAGE	2.60	2.40	1.00									

PSO MAPPING

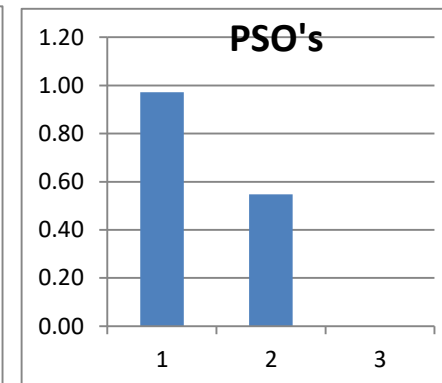
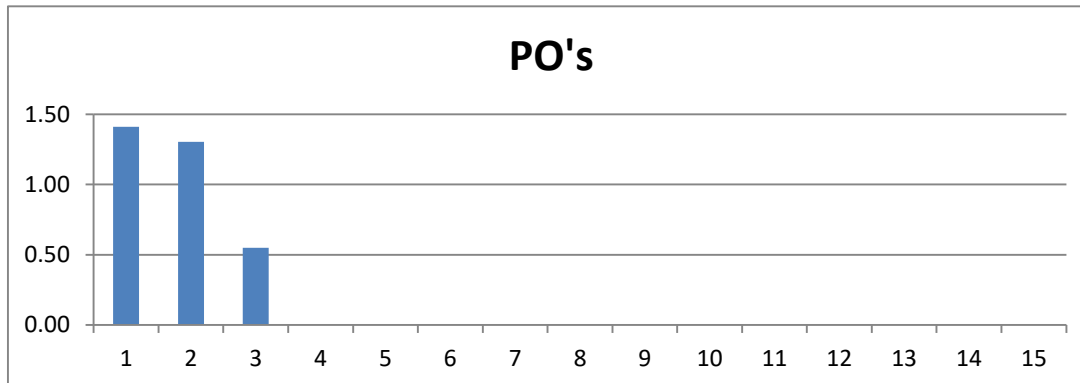
CO'S	1	2	3
CO1	1		
CO2	2	1	
CO3	2	1	
CO4	2	1	
CO5	2	1	
CO6			
Total	9	4	0
PSO AVERAGE	1.80	1.00	

ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	0.47	0.47										
CO2	1.60	1.07	0.53									
CO3	1.50	1.50	0.50									
CO4	1.66	1.66	0.55									
CO5	1.81	1.81	0.60									
CO6												
PO AVERAGE	1.41	1.30	0.55									

ATTAINMENT

CO'S	1	2	3
CO1	0.47		
CO2	1.07	0.53	
CO3	1.00	0.50	
CO4	1.11	0.55	
CO5	1.20	0.60	
CO6			
PSO AVERAGE	0.97	0.55	



Prepared by
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Dr.T.Thimmaiah Institute of Technology

Oorgaum, K.G.F-563120

SEM	5TH
Department	Mechanical
Course	MANAGEMENT & ENGG. ECO
Academic Year	2020-21

Course Instructor	PRUTHVI H M
Designation	Assistant Professor
Course code	18ME51
Total Students	50

CO'S	Description
CO1	Explain the development of management, role it plays, effective planning for the development of the organization.
CO2	Explain the necessity for organizing, staffing, good leadership, communication and coordination for establishing effective control in an organization.
CO3	Explain engineering economics, demand supply and its importance in economic decision making and problem solving.
CO4	Calculate present worth, annual worth and IRR for different alternatives in economic decision making.
CO5	Explain the procedure involved in estimation of cost for a simple component, product costing and depreciation, its methods.
CO6	

Grading Scale	Level
Score < 40	0
Score 40 to < 45	1
Score 45 to < 50	2
Score > 50	3

Target Percentage	50
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CO's	T1	T2	T3	A	T	Q	Total Marks	External Marks
CO1	20						12	60
CO2	30					10	28	
CO3		50		10			40	
CO4			40				24	
CO5			10		10		16	
CO6							0	

Sl No	USN	Students Name
1	1GV17ME02	Santhosh .s
2	1GV17ME02	Shreejith Gowda
3	1GV17ME03	V. Vigneshwaran
4	1GV17ME04	Kiran Y K
5	1GV18ME00	Abinesh J
6	1GV18ME00	Ajay P
7	1GV18ME00	Ashwin M Raju
8	1GV18ME00	Daniel Mervyn F
9	1GV18ME00	Gautam Sushanth J
10	1GV18ME00	Harshajith I
11	1GV18ME01	Lohith V
12	1GV18ME01	Mathew Jonas G
13	1GV18ME01	Roshan U
14	1GV18ME01	Sachin L Rathode
15	1GV18ME01	Sai Kiran S
16	1GV18ME02	Yashaswini M N
17	1GV19ME40	Abilash L
18	1GV19ME40	Abinash S
19	1GV19ME40	Ajay Kumar K
20	1GV19ME40	Allwyn Paul
21	1GV19ME40	Avinash S
22	1GV19ME40	Dilip Kumar S
23	1GV19ME40	Dinesh Kumar S
24	1GV19ME40	Gritto A
25	1GV19ME40	Hemanth Kumar T
26	1GV19ME40	Hemavathy V
27	1GV19ME41	Indra Kumar S
28	1GV19ME41	Israel
29	1GV19ME41	Jenivaraya Francis H
30	1GV19ME41	Kalyan Prasad K
31	1GV19ME41	Karthick K
32	1GV19ME41	Karthikeyan V
33	1GV19ME41	Kishore Kumar R
34	1GV19ME41	Lakshmana K
35	1GV19ME41	Mohamed Maaz K

CO Marks in Tests												
Test 1			Q	Test 2			A	Test 3			T	
CO1	CO2	CO2	CO2	CO3	CO3	CO3	CO3	CO4	CO4	CO5	CO5	
20	20	10	10	18	20	10	10	10	10	7	10	
20	20	9	10	20	16	10	10	20	20	0	10	
20	20	10	10	14	20	10	10	5	5	5	10	
20	20	10	10	18	20	10	10	13	20	10	10	
20	20	10	10	18	18	10	10	10	8	15	10	
20	20	10	10	20	18	10	10	15		5	10	
20	20	10	10	20	20	10	10	10	20	5	10	
20	18	8	9	20	20	10	10	8	4	8	10	
20	20	10	10	20	20	10	10	20	5	10	10	
20	20	10	10	20	20	10	10	10	0	10	10	
20	16	5	10	20	20	10	10	10	0	10	10	
20	20	10	10	20	20	10	10	10	0	10	10	
20	20	10	10	20	20	10	10	0	5	6	10	
20	20	10	10	20	20	10	10	20	10	10	10	
20	19	8	10	20	20	10	10	10	10	10	10	
20	20	10	10	20	20	10	10	20	19	10	10	
20	20	10	10	20	15	10	10	20	20	10	10	
20	20	10	10	20	20	10	10	20	20	10	10	
10	10	8	10	15	15	10	10	20	20	10	10	
10	10	9	10	20	15	10	10	20	20	10	10	
20	20	10	10	20	16	10	10	20	10	10	10	
20	20	10	10	10	16	10	10	20	10	10	10	
20	20	5	10	18	15	10	10	13	14	10	10	
20	20	5	10	20	15	10	10	1	5	2	10	
20	20	10	10	20	15	10	10	13	20	10	10	
20	20	10	10	20	20	10	10	20	4	10	10	
20	20	10	10	20	18	10	10	4	2	1	10	
20	20	9	6	20	20	10	10	20		10	10	
20	20	10	10	19	20	0	10	20	20	10	10	
0	0	0	10	18	20	10	10	20	10	10	10	
20	20	10	10	20	15	10	10	20	18	10	10	
20	20	10	10	20	20	10	10	20	20	10	10	
20	20	10	10	20	15	10	10	13	10	10	10	
20	20	10	10	20	18	10	10	12	10	10	10	
20	20	10	10	20	8	10	10	10	20	10	10	

Attainment of CO's											
CO1		CO2		CO3		CO4		CO5		CO6	
M	%	M	%	M	%	M	%	M	%	M	%
12	100	28	100	39	97	12	50	14	89	0	###
12	100	27	98	38	94	24	100	10	63	0	###
12	100	28	100	36	91	6	25	13	81	0	###
12	100	28	100	39	97	20	83	16	100	0	###
12	100	28	100	38	94	11	45	19	119	0	###
12	100	28	100	39	97	9	38	13	81	0	###
12	100	28	100	40	100	18	75	13	81	0	###
12	100	25	88	40	100	7	30	15	93	0	###
12	100	28	100	40	100	15	63	16	100	0	###
12	100	28	100	40	100	6	25	16	100	0	###
12	100	23	81	40	100	6	25	16	100	0	###
12	100	28	100	40	100	6	25	16	100	0	###
12	100	28	100	40	100	3	13	14	85	0	###
12	100	28	100	40	100	18	75	16	100	0	###
12	100	26	94	40	100	12	50	16	100	0	###
12	100	28	100	40	100	23	98	16	100	0	###
12	100	28	100	37	93	24	100	16	100	0	###
12	100	28	100	40	100	24	100	16	100	0	###
6	50	21	74	34	85	24	100	16	100	0	###
6	50	21	76	37	93	24	100	16	100	0	###
12	100	28	100	38	94	18	75	16	100	0	###
12	100	28	100	32	79	18	75	16	100	0	###
12	100	25	89	36	90	16	68	16	100	0	###
12	100	25	89	37	93	4	15	11	70	0	###
12	100	28	100	37	93	20	83	16	100	0	###
12	100	28	100	40	100	14	60	16	100	0	###
12	100	28	100	39	97	4	15	11	66	0	###
12	100	23	84	40	100	12	50	16	100	0	###
12	100	28	100	33	84	24	100	16	100	0	###
0	0	10	36	39	97	18	75	16	100	0	###
12	100	28	100	37	93	23	95	16	100	0	###
12	100	28	100	40	100	24	100	16	100	0	###
12	100	28	100	37	93	14	58	16	100	0	###
12	100	28	100	39	97	13	55	16	100	0	###
12	100	28	100	33	82	18	75	16	100	0	###

VTU	
All CO	
M	%
39	65
6	10
AB	40
24	###
27	45
32	53
23	38
21	35
30	50
28	47
22	37
28	47
21	35
27	45
29	48
26	43
36	60
45	75
15	25
7	12
17	28
33	55
12	20
21	35
12	20
31	52
21	35
23	38
17	28
39	65
24	40
42	70
36	60

36	1GV19ME41	Prakash R	20	20	10	10	20	15	10	10	20	18	10	10
37	1GV19ME42	Prem M	20	20	5	10	20	20	10	10	10	12	10	10
38	1GV19ME42	Promoth Kumar P	0	0	0	0	19	19	10	10	2	0	10	10
39	1GV19ME42	Rahil Babu D	20	20	10	10	20	20	10	10	14	10	10	10
40	1GV19ME42	Rakesh D	20	20	10	10	16	15	10	10	16	20	10	10
41	1GV19ME42	Rama K	20	20	10	10	20	20	10	10	20	10	5	10
42	1GV19ME42	Renald Vishwa A	20	20	10	10	20	18	10	10	14	20	10	10
43	1GV19ME42	Sanjay Kumar K	20	20	10	10	20	18	10	10	13	10	10	10
44	1GV19ME42	Shakthishwaran C	20	20	10	10	15	15	10	10	13	16	10	10
45	1GV19ME42	Sudharshan S	20	20	10	10	20	14	10	10	12	20	10	10
46	1GV19ME42	Sujith V	20	20	10	10	18	18	10	10	20	0	10	10
47	1GV19ME43	Thousif Pasha F	20	20	10	10	20	20	10	10	5	0	10	10
48	1GV19ME43	Vinay V	20	18	8	7	20	18	10	10	12	4	10	10
49	1GV19ME43	Vinod Kumar K V	20	20	10	10	18	13	10	10	10	20	2	10
50	1GV19ME43	Yeshwanth Kumar V M	20	18	8	10	20	20	10	10	0	0	3	10

12	100	28	100	37	93	23	95	16	100	0	###	36	60
12	100	25	89	40	100	13	55	16	100	0	###	34	57
0	0	0	0	39	97	1	5	16	100	0	###	21	35
12	100	28	100	40	100	14	60	16	100	0	###	42	70
12	100	28	100	35	87	22	90	16	100	0	###	37	62
12	100	28	100	40	100	18	75	13	81	0	###	36	60
12	100	28	100	39	97	20	85	16	100	0	###	39	65
12	100	28	100	39	97	14	58	16	100	0	###	21	35
12	100	28	100	34	85	17	73	16	100	0	###	12	20
12	100	28	100	36	91	19	80	16	100	0	###	28	47
12	100	28	100	38	94	12	50	16	100	0	###	29	48
12	100	28	100	40	100	3	13	16	100	0	###	27	45
12	100	23	81	39	97	10	40	16	100	0	###	27	45
12	100	28	100	35	87	18	75	11	70	0	###	23	38
12	100	26	91	40	100	0	0	12	74	0	###	35	58
CO1	48	CO2	48	CO3	50	CO4	36	CO5	50	CO6	0	VTU	17

Target is 50% marks
Attainment level 1: 40% students scoring more than 50% marks
Attainment level 2: 45% students scoring more than 50% marks
Attainment level 3: 50% students scoring more than 50% marks

PERCENTAGE OF STUDENTS SCORING > 50% of Marks (For Internal Assessment)						
CO'S	CO1	CO2	CO3	CO4	CO5	CO6
Number of Students Scored above 50% marks	48	48	50	36	50	0
Number of Students attempted the test	50	50	50	50	50	50
% OF STUDENTS	96.00	96.00	100.00	72.00	100.00	
Attainment Level	3	3	3	3	3	

PERCENTAGE OF STUDENTS SCORING > 50% of marks (For University Examination)	
Number of Students Scored above 50 % of Marks	17
Number of Students attempted the Examination	50
% OF STUDENTS	34.00
Attainment Level	0

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	0.59
CO2	0.59
CO3	0.60
CO4	0.49
CO5	0.60
CO6	

CO attainment using Course survey	
CO1	0.92
CO2	0.74
CO3	1
CO4	1
CO5	0.96
CO6	

Overall CO attainment	
CO1	0.654
CO2	0.618
CO3	0.683
CO4	0.594
CO5	0.675
CO6	

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1								1	2	2	3	
CO2								2	3	3	3	
CO3	2	2			2							
CO4	2	2			2							
CO5	2	2			2							
CO6												
Total	6	6	0	0	6	0	0	3	5	5	6	0
PO AVERAGE	2.00	2.00			2.00			1.50	2.50	2.50	3.00	

PSO MAPPING

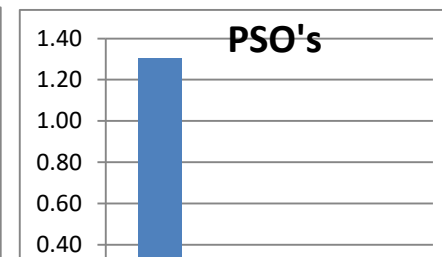
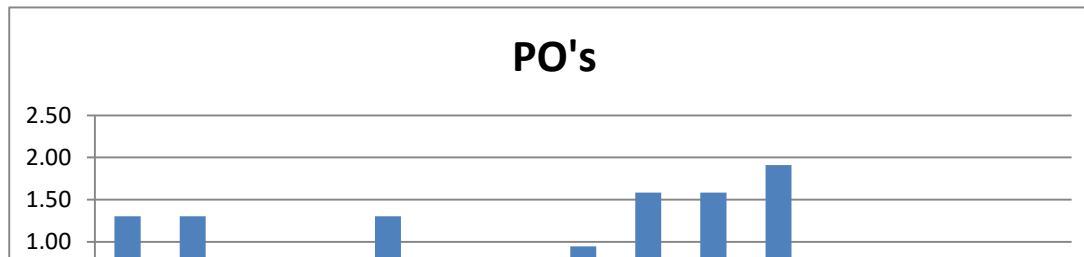
CO'S	1	2	3
CO1			
CO2			
CO3	2		
CO4	2		
CO5	2		
CO6			
Total	6	0	0
PSO AVERAGE	2.00		

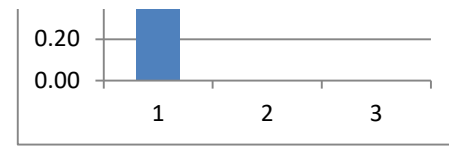
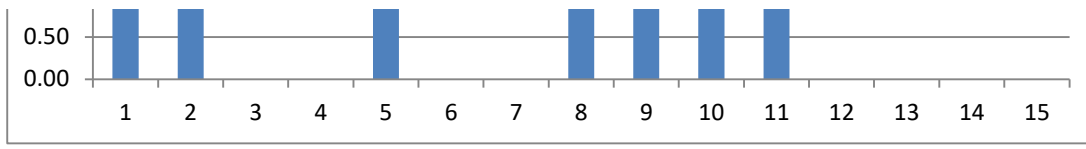
ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1								0.65	1.31	1.31	1.96	
CO2								1.24	1.86	1.86	1.86	
CO3	1.37	1.37			1.37							
CO4	1.19	1.19			1.19							
CO5	1.35	1.35			1.35							
CO6												
PO AVERAGE	1.30	1.30			1.30			0.95	1.58	1.58	1.91	

ATTAINMENT

CO'S	1	2	3
CO1			
CO2			
CO3	1.37		
CO4	1.19		
CO5	1.35		
CO6			
PSO AVERAGE	1.30		





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