



Dr.T.Thimmaiah Institute of Technology

Oorgaam, K.G.F-563120

SEM	1
Department	Mechanical
Course	Basic Electronics
Academic Year	2020-21

Course Instructor	Inbalatha .K
Designation	Associate Professor
Course code	18ELN14
Total Students	13

CO'S	Description
CO1	Describe the operation of some basic semiconductor devices and its applications
CO2	Evaluate some analog circuits and linear IC's applications
CO3	Describe and evaluate Non-Sequential and Sequential Circuits
CO4	Illustrate basic working principle of communication system and GSM
CO5	Demonstrate lab experiments
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			10		22	60
CO2		10					6	
CO3		20					12	
CO4	50					10	40	
CO5			50	10			40	
CO6							0	

Sl No	USN	Students Name
1	1GV20ME001	CLINTON GERARD H
2	1GV20ME002	DEEPAK M
3	1GV20ME003	E YOGARAJ
4	1GV20ME004	JAYASOORYA M
5	1GV20ME005	KARTHIGEYAN R
6	1GV20ME006	MADHAN P
7	1GV20ME007	MARIO LUKE THOMAS G
8	1GV20ME008	NOORARFA
9	1GV20ME009	RAGHUNANDAN M T
10	1GV20ME010	S D VITAL
11	1GV20ME011	SRIKANTH K N
12	1GV20ME012	SUJAY S
13	1GV20ME013	VARUN KUMAR A V

CO Marks in Tests										
Test 1	Q	Test 2			T	Test 3			A	
CO4		CO4	CO1	CO3	CO2	CO1	CO5			CO5
5		10	4	6	4	3	5			10
8		10	5	5	5	6	6			10
18		10	4	4	2	9	3			9
23		9	10	4	3	7	5			9
23		10	5	5	3	5	2			10
28		10	6	5	6	9	14			10
12		10	4	6	4	7				9
11		10	5	4		7	19			10
21		7	0			5				7
10		10	9	6	3	7	7			10
27		10	10	5	5	10	18			10
27		10	7	4	3	7	10			9
22		10	9	6	3	8	14			10

Attainment of CO's												VTU	
CO1		CO2		CO3		CO4		CO5		CO6		All CO	
M	%	M	%	M	%	M	%	M	%	M	%	M	%
5	25	2	40	4	30	13	33	13	33	0	###	10	17
9	41	3	50	3	25	15	37	14	34	0	###	15	25
11	52	1	20	2	20	21	52	11	27	0	###	7	12
13	59	2	30	2	20	23	57	12	30	0	###	21	35
8	36	2	30	3	25	24	60	11	28	0	###	1	2
13	57	4	60	3	25	27	67	18	46	0	###	12	20
9	43	2	40	4	30	17	43	9	23	0	###	11	18
10	45	0	0	2	20	17	42	21	54	0	###	33	55
5	23	0	0	0	0	20	49	7	18	0	###	11	18
12	56	2	30	4	30	16	40	14	36	0	###	21	35
16	73	3	50	3	25	26	66	21	52	0	###	21	35
11	51	2	30	2	20	26	66	15	38	0	###	21	35
13	61	2	30	4	30	23	58	18	46	0	###	15	25
CO1	7	CO2	3	CO3	0	CO4	7	CO5	2	CO6	0	VTU	1

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	7	3	0	7	2	0
Number of Students attempted the test	13	13	13	13	13	13
% OF STUDENTS	53.85	23.08	0.00	53.85	15.38	
Attainment Level	3	0	0	3	0	

PERCENTAGE OF STUDENTS SCORING > 50% of marks (For University Examination)	
Number of Students Scored above 50 % of Marks	1
Number of Students attempted the Examination	13
% OF STUDENTS	7.69
Attainment Level	0

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	0.26
CO2	0.14
CO3	0.05
CO4	0.26
CO5	0.11
CO6	

CO attainment using Course survey	
CO1	0.96
CO2	0.94
CO3	0.89
CO4	0.91
CO5	0.91
CO6	

Overall CO attainment	
CO1	0.401
CO2	0.299
CO3	0.215
CO4	0.391
CO5	0.268
CO6	

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2	2									
CO2	3	2	2									
CO3	3	2	2									
CO4	3	2	2									
CO5	3	2	2									
CO6												
Total	15	10	10	0	0	0	0	0	0	0	0	0
PO AVERAGE	3.00	2.00	2.00									

PSO MAPPING

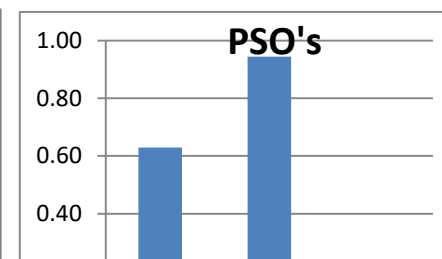
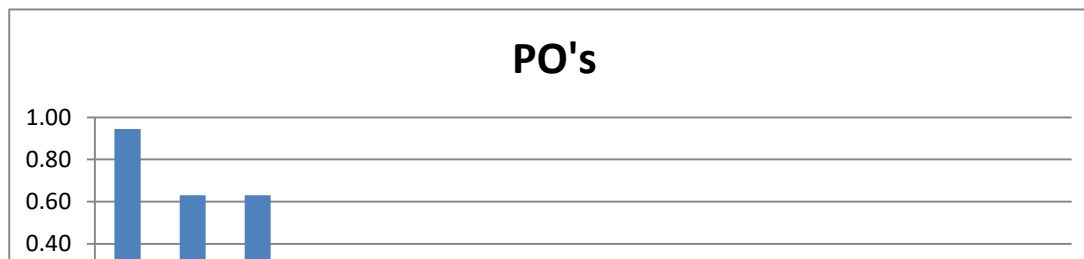
CO'S	1	2	3
CO1	2	3	
CO2	2	3	
CO3	2	3	
CO4	2	3	
CO5	2	3	
CO6			
Total	10	15	0
PSO AVERAGE	2.00	3.00	

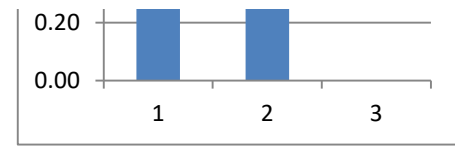
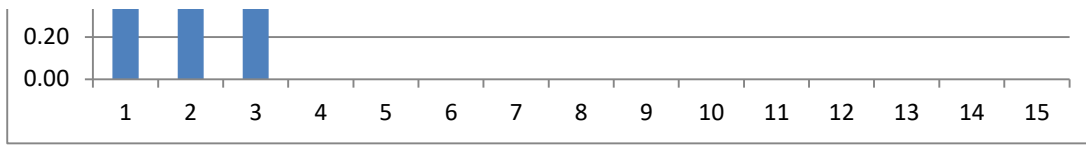
ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1.20	0.80	0.80									
CO2	0.90	0.60	0.60									
CO3	0.64	0.43	0.43									
CO4	1.17	0.78	0.78									
CO5	0.80	0.54	0.54									
CO6												
PO AVERAGE	0.94	0.63	0.63									

ATTAINMENT

CO'S	1	2	3
CO1	0.80	1.20	
CO2	0.60	0.90	
CO3	0.43	0.64	
CO4	0.78	1.17	
CO5	0.54	0.80	
CO6			
PSO AVERAGE	0.63	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	2
Department	Electrical & Electronics
Course	Basic Electrical Engg
Academic Year	2020-21

Course Instructor	VEENA.B
Designation	Associate Professor
Course code	18ELE23
Total Students	13

CO'S	Description
CO1	Analysed DC and AC circuits
CO2	Explained the Operation, Principle and construction of S.P transform
CO3	Analysed & discussed the principle of operation & construction of 3 induction, DC machine
CO4	Discussed the Concepts of using, Circuits protecting device & earthing
CO5	
CO6	

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

CO's	T1	T2	T3	A	T	Q	Total Marks	External Marks
CO1	20	20	10		10		50	50
CO2	20			10		10	36	
CO3		30	40				56	
CO4	10					10	18	
CO5							0	
CO6							0	

Target Percentage	50
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Reduction factors to be used	
Internals	T/A/Q
0.8	1

Sl No	USN	Students Name
1	1GVZ0M1E00	CLYTON GERARD J
2	1GVZ0M1E00	DEEPAK M
3	1GVZ0M1E00	E YOGARAJ
4	1GVZ0M1E00	JAYASOORYA M
5	1GVZ0M1E00	KARTHIGEYAN R
6	1GVZ0M1E00	MADHAN P
7	1GVZ0M1E00	MIRANO LOKL
8	1GVZ0M1E00	THOMAS C
9	1GVZ0M1E00	NOORARFA
9	1GVZ0M1E00	RAGHUNANDAN M.T
10	1GVZ0M1E01	S D VITAL
11	1GVZ0M1E01	SRIKANTH K N
12	1GVZ0M1E01	SUJAYS

CO Marks in Tests												
Test 1				Q	Test 2			T	Test 3			A
CO1	CO2	CO4	CO2	CO1	CO3	CO2	CO1	CO3	CO1	CO2	CO2	
20	20	10	5	8	18		7	33	9		10	
20	20		5	8	21		10	40	10		10	
20	18	8	5	2	23		9	40	2		10	
20	20	10	5	15	25		7	33	10		10	
20	20	10	5	8	20		9	40	1		10	
13	20		5	7	15		10	40	1		10	
20	20	10	6	20	30		10	40	10		10	
19	20	8	6	20	23		10	40	10		10	
18	17	8	7	20	18		9	20			10	
20	20	10	5	5	13		10	33	10		10	
19	20	10	7	16	26		10	40	10		10	
12	20	10	5	12	20		9	40	10		10	

Attainment of CO's											
CO1		CO2		CO3		CO4		CO5		CO6	
M	%	M	%	M	%	M	%	M	%	M	%
37	73	31	86	41	73	8	44	0	##	0	##
40	81	31	86	49	87	0	0	0	##	0	##
28	56	29	82	50	90	6	36	0	##	0	##
43	86	31	86	46	83	8	44	0	##	0	##
32	64	31	86	48	86	8	44	0	##	0	##
27	54	31	86	44	79	0	0	0	##	0	##
50	100	32	89	56	##	8	44	0	##	0	##
49	98	32	89	50	90	6	36	0	##	0	##
39	79	31	85	30	54	6	36	0	##	0	##
38	76	31	86	37	66	8	44	0	##	0	##
46	92	33	92	53	94	8	44	0	##	0	##
36	72	31	86	48	86	8	44	0	##	0	##

VTU	
All CO	
M	%
19	38
22	44
15	30
28	56
19	38
22	44
23	46
25	50
15	30
23	46
31	62
29	58

13	CGVZ01M101	VARUN KUMAR
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20	20	8	6	16	22	9	40	10	10
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46	92	32	89	50	89	6	36	0	##	0	##	27	54
CO1	13	CO2	13	CO3	13	CO4	0	CO5	0	CO6	0		

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	13	13	13	0	0	0
Number of Students attempted the test	13	13	13	13	13	13
% OF STUDENTS	100.00	100.00	100.00	0.00		
Attainment Level	3	3	3	0		

PERCENTAGE OF STUDENTS SCORING > 50% of marks (For University Examination)	
Number of Students Scored above 50 % of Marks	0
Number of Students attempted the Examination	13
% OF STUDENTS	0.00
Attainment Level	0

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	0.40
CO2	0.40
CO3	0.40
CO4	0.00
CO5	
CO6	

CO attainment using Course survey	
CO1	0.56
CO2	0.75
CO3	0.6
CO4	0.75
CO5	
CO6	

Overall CO attainment	
CO1	0.432
CO2	0.470
CO3	0.440
CO4	0.150
CO5	
CO6	

Wegtage for Indirect assessment	
Direct	Indirect
0.8	0.2

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	3										
CO2	3	2										
CO3	3	2										
CO4	3	2										
CO5												

PSO MAPPING

CO'S	1	2	3
CO1	1		
CO2			
CO3			2
CO4	1		
CO5			

CO6												
Total	12	9	0	0	0	0	0	0	0	0	0	0
PO AVERAGE	3.00	2.25										

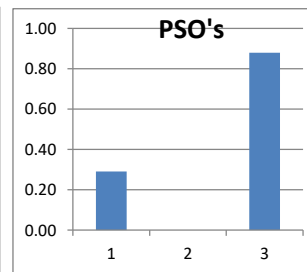
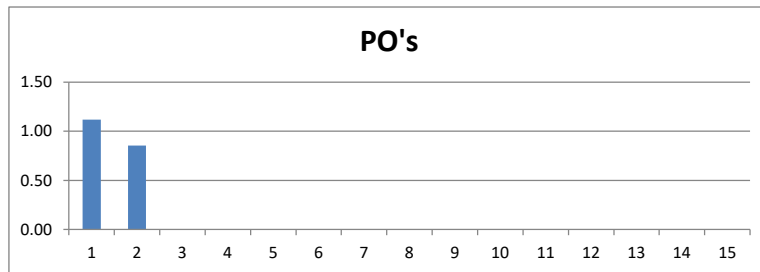
CO6			
Total	2	0	2
PSO AVERAGE	1.00		2.00

ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	1.30	1.30										
CO2	1.41	0.94										
CO3	1.32	0.88										
CO4	0.45	0.30										
CO5												
CO6												
PO AVERAGE	1.12	0.85										

ATTAINMENT

CO'S	1	2	3
CO1	0.43		
CO2			
CO3			0.88
CO4	0.15		
CO5			
CO6			
PSO AVERAGE	0.29		0.88



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



Dr.T.Thimmaiah Institute of Technology

Oorgaam, K.G.F-563120

SEM	II
Department	Mining
Course	ADVANCED CALCULUS AND N
Academic Year	2020-21

Course Instructor	K.G.SANDHYA
Designation	Assistant Professor
Course code	18MAT21
Total Students	39

CO'S	Description
CO1	Illustrate the applications of multivariate calculus to understand the solenoidal and irrotational vectors and also exhibit the interdependence of line surface and volume integrals.
CO2	Demonstrate various physical models through higher order differential equations and solve such linear ordinary differential equations.
CO3	Construct a variety of partial differential equations and solution by exact methods/method of seperation of variables.
CO4	Explain the applications of infinite series and obtain series solution of ordinary differential equations.
CO5	Apply the knowledge of numerical methods in the modelling of various physical and engineering phenomena.
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	50
CO1	20			30			26	
CO2	30						24	
CO3		40				30	42	
CO4			10				8	
CO5		10	40		30		50	
CO6							0	

Sl No	USN	Students Name
1	1GV20MI001	AJITHRAJ S
2	1GV20MI002	AKASH VANAN P
3	1GV20MI003	AKHILESH G
4	1GV20MI004	AMBRISH KE
5	1GV20MI005	ANIL RAO
6	1GV20MI006	ARUN KUMAR R
7	1GV20MI007	B N RAJU
8	1GV20MI008	DODDA BASAPPA G
9	1GV20MI009	G SRINIVAS
10	1GV20MI010	HARISHANKAR C
11	1GV20MI011	HASSAN HATHIM C M
12	1GV20MI012	JOLLU KIRAN KUMAR
13	1GV20MI013	KIRAN H
14	1GV20MI014	M PRAVEEN KUMAR
15	1GV20MI015	MALATHESH N
16	1GV20MI016	MARAKA VISHNU WARDHAN REDDY
17	1GV20MI017	MD AYYUB HUSSAIN
18	1GV20MI018	N SANTOSHA
19	1GV20MI019	N SRIDHARAN
20	1GV20MI020	NAVEEN D SOUZA A
21	1GV20MI021	PAVAN KUMAR M A
22	1GV20MI022	PRANESH S
23	1GV20MI023	PRATHEEK
24	1GV20MI024	R PARASHURAM
25	1GV20MI025	RAGHAVENDRA B
26	1GV20MI026	RAHUL U
27	1GV20MI027	RAJESH M
28	1GV20MI028	RAJESH RAJ K
29	1GV20MI029	SANJAY M
30	1GV20MI030	SHASHANK H S
31	1GV20MI031	SUDEEP M
32	1GV20MI032	THARUN KUMAR S
33	1GV20MI033	TIRTHARAJA E
34	1GV20MI034	V KATHIRAVAN
35	1GV20MI035	VIDYA. G

CO Marks in Tests										
Test 1		A	Test 2			Q	Test 3			T
CO1	CO2	CO1	CO3	CO5	CO3	CO4	CO5	CO5	CO5	
20	24	30	11	10	15	2	21	15		
20	26	30	12	5	18	14	6			
20	28	30	21	15	5	8				
20	27	30	33	10	12	10	39	18		
20	27	30	32	9	12	10	35	15		
20	30	30	34	2	18	10	33	30		
20	22	30	33	8	9	10	18			
20	19	30	6	5	15	10	5	24		
20	27	30	36	10	24	10	13			
20	25	30	3	10	21	5	11	27		
20	25	15	15	10	11	21				
14	24	30	26	10	15	10	31	12		
18	23	30	31	10	12	10	36	15		
20	27	30	11	10	27	17	6			
20	22	30	39	10	15	10	37	30		
20	28	30	23	10	21	5	28	15		
13	16	30	16	6	15	5	7	24		
20	18	30	31	10	9	9	25	6		
20	30	30	32	9	18	8	33	27		
20	28	30	13	10	18	10	36	30		
20	27	30	2	6	15	5	24			
18	26	30	6	10	21	15				
13	19	30	33	10	21	10	37	12		
20	24	30	15	10	12	10	12	12		
20	27	30	33	10	15	10	39	18		
20	19	30	7	18	13	24				
20	28	30	2	15	13	24				
20	20	30	2	15	9	30				
20	27	30	23	10	27	10	38	30		
20	23	30	13	10	15	24				
20	21	30	33	10	15	10	40	24		
20	23	30	25	10	15	10	35	12		
20	24	30	24	6	15	12				
20	24	30	8	2	15	9	24			
20	27	30	40	9	18	10	38	30		

Attainment of CO's													VTU	
CO1		CO2		CO3		CO4		CO5		CO6		All CO		
M	%	M	%	M	%	M	%	M	%	M	%	M	%	
26	100	19	80	14	33	2	20	30	60	0	###	26	52	
26	100	21	87	16	37	0	0	17	34	0	###	29	58	
26	100	22	93	22	52	4	50	6	13	0	###	17	34	
26	100	22	90	30	72	8	100	45	90	0	###	31	62	
26	100	22	90	30	70	8	100	40	80	0	###	28	56	
26	100	24	100	33	79	8	100	38	76	0	###	35	70	
26	100	18	73	29	70	8	100	21	42	0	###	27	54	
26	100	15	63	10	23	8	100	16	32	0	###	14	28	
26	100	22	90	37	88	8	100	18	37	0	###	32	64	
26	100	20	83	9	22	4	50	26	52	0	###	24	48	
21	81	20	83	5	12	8	100	16	32	0	###	27	54	
21	82	19	80	26	61	8	100	37	74	0	###	27	54	
24	94	18	77	29	69	8	100	42	84	0	###	27	54	
26	100	22	90	18	42	0	0	24	47	0	###	27	54	
26	100	18	73	36	86	8	100	48	95	0	###	37	74	
26	100	22	93	25	60	4	50	35	71	0	###	28	56	
20	78	13	53	18	42	4	50	18	37	0	###	17	34	
26	100	14	60	28	66	7	90	30	60	0	###	25	50	
26	100	24	100	32	75	6	80	43	85	0	###	36	72	
26	100	22	93	16	39	8	100	47	94	0	###	28	56	
26	100	22	90	7	16	4	50	13	26	0	###	21	42	
24	94	21	87	12	28	0	0	20	40	0	###	28	56	
20	78	15	63	33	80	8	100	42	83	0	###	28	56	
26	100	19	80	16	38	8	100	22	43	0	###	26	52	
26	100	22	90	31	75	8	100	45	90	0	###	32	64	
26	100	15	63	6	14	0	0	24	48	0	###	18	36	
26	100	22	93	5	12	0	0	20	40	0	###	23	46	
26	100	16	67	5	12	0	0	19	38	0	###	27	54	
26	100	22	90	27	65	8	100	48	97	0	###	34	68	
26	100	18	77	15	37	0	0	16	32	0	###	26	52	
26	100	17	70	31	75	8	100	48	96	0	###	30	60	
26	100	18	77	25	60	8	100	40	80	0	###	30	60	
26	100	19	80	24	58	0	0	14	29	0	###	21	42	
26	100	19	80	11	27	0	0	17	34	0	###	21	42	
26	100	22	90	38	90	8	100	48	95	0	###	31	62	

36	1GV20MI036	VIDYADHARA HIPMATH	14	24	30	24	9	18	7	24	
37	1GV20MI037	VIKRAM TENDULKAR D	20	22	30	19	18	8			
38	1GV20MI038	VINAYA KUMARA H S	19	14	30	24	10	15	5	12	27
39	1GV19MI022	KIRAN KUMAR. M (Re-Adm	20	23	30	7	10	18	13		

21	82	19	80	25	60	0	0	21	42	0	###	28	56
26	100	18	73	21	50	0	0	6	13	0	###	17	34
25	97	11	47	24	58	4	50	27	53	0	###	20	40
26	100	18	77	12	28	0	0	18	37	0	###	29	58
CO1	39	CO2	38	CO3	22	CO4	26	CO5	19	CO6	0	VTU	28

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	39	38	22	26	19	0
Number of Students attempted the test	39	39	39	39	39	39
% OF STUDENTS	100.00	97.44	56.41	66.67	48.72	
Attainment Level	3	3	3	3	2	

PERCENTAGE OF STUDENTS SCORING > 50% of marks (For University Examination)	
Number of Students Scored above 50 % of Marks	28
Number of Students attempted the Examination	39
% OF STUDENTS	71.79
Attainment Level	3

Calculation for CO attainment by direct assessment (40% weightage for IA & 60% SEE marks)	Attainment
CO1	0.83
CO2	0.82
CO3	0.66
CO4	0.70
CO5	0.63
CO6	

CO attainment using Course survey	
CO1	0.8
CO2	0.7
CO3	0.77
CO4	0.8
CO5	0.73
CO6	

Overall CO attainment	
CO1	0.825
CO2	0.796
CO3	0.679
CO4	0.718
CO5	0.647
CO6	

PO MAPPING

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2										
CO2	3	2										
CO3	3	3										
CO4	3	3										
CO5	3	3										
CO6												
Total	15	13	0	0	0	0	0	0	0	0	0	0
PO AVERAGE	3.00	2.60										

PSO MAPPING

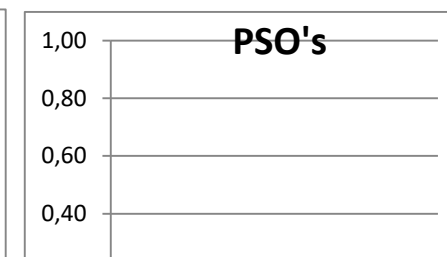
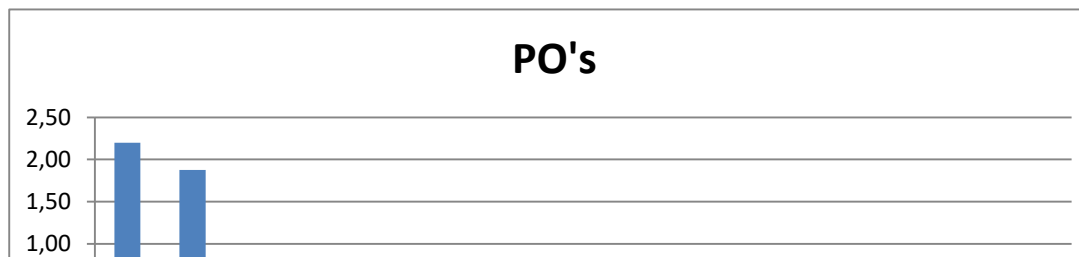
CO'S	1	2	3
CO1			
CO2			
CO3			
CO4			
CO5			
CO6			
Total	0	0	0
PSO AVERAGE			

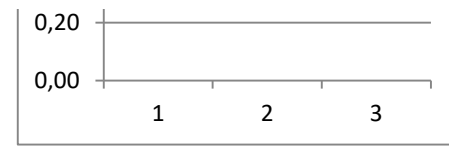
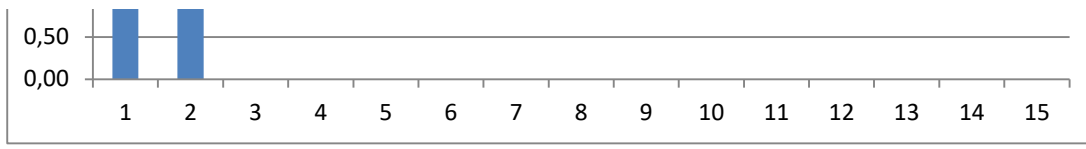
ATTAINMENT

CO'S	1	2	3	4	5	6	7	8	9	10	11	12
CO1	2.47	1.65										
CO2	2.39	1.59										
CO3	2.04	2.04										
CO4	2.15	2.15										
CO5	1.94	1.94										
CO6												
PO AVERAGE	2.20	1.87										

ATTAINMENT

CO'S	1	2	3
CO1			
CO2			
CO3			
CO4			
CO5			
CO6			
PSO AVERAGE			





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