

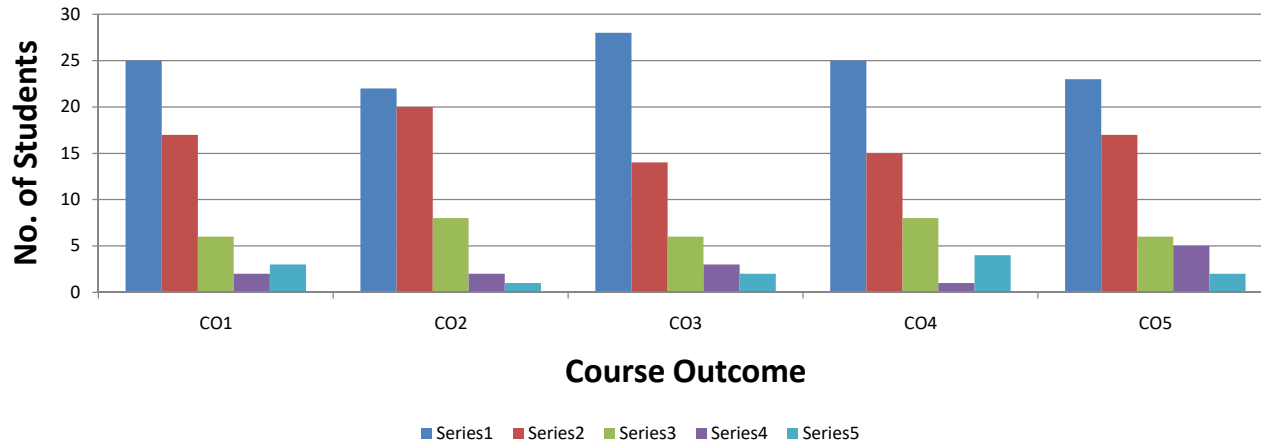


### Summary of Course Exit Survey

CO No.	Course Outcome Question	No. of Students Rated and Rating Percentage										Average %	CO Attainment
		5	%	4	%	3	%	2	%	1	%		
		Total number of students participated in Course Exit Survey											
CO1	Rate yourself based on your ability to apply Differential and Integral Calculus and evaluate improper integrals.	25	47.17	17	32.08	6	11.32	2	3.77	3	5.66	58.13	2.62
CO2	Rate yourself based on your ability to apply knowledge of vector differential calculus in engineering subjects	22	41.51	20	37.74	8	15.09	2	3.77	1	1.89	58.40	2.53
CO3	Rate yourself based on your ability to apply knowledge of vector integral calculus in engineering subjects	28	52.83	14	26.42	6	49.84	3	5.66	2	3.77	59.20	2.32
CO4	Rate yourself based on your ability to apply linear Independence and linear dependence of vectors and concepts of rank, basis and dimension of vector Space to solve system of liner equations.	25	0.00	15	28.30	8	15.09	1	1.89	4	7.55	57.33	2.55
CO5	Rate yourself based on your ability to apply essential tool to solve numerical problems based on Eigen values, Eigen vectors.	23	43.40	17	32.08	6	11.32	5	9.43	2	3.77	56.80	2.51

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	25	17	6	2	3	53
CO2	22	20	8	2	1	53
CO3	28	14	6	3	2	53
CO4	25	15	8	1	4	53
CO5	23	17	6	5	2	53

**Course Exit Survey**  
**No. of Students Participated=53**



SI No	Roll No.	Regd No	CO1	CO2	CO3	CO4	CO5
1	2301001	2301287001	3	2	3	3	1
2	2301002	2301287002	3	3	2	3	3
3	2301003	2301287003	2	3	3	2	3
4	2301004	2301287004	3	3	3	3	3
5	2301005	2301287005	3	1	3	2	1
6	2301006	2301287006	2	3	3	3	2
7	2301007	2301287007	2	2	2	2	3
8	2301008	2301287008	3	3	3	0	3
9	2301009	2301287009	3	3	2	3	2
10	2301010	2301287010	3	3	1	3	3
11	2302146	2301287475	3	3	3	2	1
12	2302147	2301287476	3	2	0	3	3
13	2302148	2301287478	3	3	2	2	3
14	2302149	2301287480	2	0	3	3	2
15	2302150	2301287482	3	2	2	3	3
16	2302151	2301287484	2	3	3	3	3
17	2302152	2301287486	3	2	1	3	2
18	2302153	2301287488	3	3	3	0	2
19	2302154	2301287490	3	3	2	2	3
20	2302155	2301287492	3	3	2	1	3
21	2302156	2301287494	3	3	1	2	1
22	2302157	2301287496	1	3	2	3	3
23	2302158	2301287498	2	2	3	3	3
24	2302159	2301287500	3	2	3	3	3

Rubrics	
Rate-5	3.00
Rate-4	3.00
Rate-3	2.00
Rate-2	1.00
Rate-1	0.00

25	2302160	2301287502	2	3	0	3	3
26	2302161	2301287504	3	3	2	3	0
27	2302162	2301287506	3	3	3	3	3
28	2302163	2301287508	3	1	2	3	1
29	2302164	2301287510	2	3	3	1	3
30	2302165	2301287512	3	2	3	3	3
31	2302166	2301287514	3	3	2	3	2
32	2302167	2301287516	1	3	2	3	3
33	2302168	2301287518	3	3	3	2	3
34	2302169	2301287520	3	3	2	2	2
35	2302170	2301287522	2	1	3	3	3
36	2302171	2301287524	3	3	1	3	2
37	2302172	2301287526	1	2	3	3	3
38	2302173	2301287528	3	3	2	2	2
39	2302174	2301287530	2	1	3	2	3
40	2302175	2301287532	1	3	3	3	3
41	2302176	2301287534	3	2	3	3	3
42	2302177	2301287536	2	3	2	3	2
43	2302178	2301287538	3	3	3	2	2
44	2302179	2301287540	3	3	3	3	3
45	2302180	2301287542	3	0	2	3	3
46	2302181	2301287544	3	3	1	3	3
47	2302182	2301287546	3	3	3	3	2
48	2302183	2301287548	3	3	3	2	3
49	2302184	2301287550	3	3	0	3	3
50	2302185	2301287552	3	3	3	3	3
51	2302186	2301287554	3	2	3	2	3
52	2302187	2301287556	2	3	2	3	3
53	2302188	2301287558	3	3	3	3	2
<b>Average</b>			<b>2.62</b>	<b>2.53</b>	<b>2.32</b>	<b>2.55</b>	<b>2.51</b>

<b>CO Attainment</b>				
<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
<b>1</b>	<b>CO1</b>	<b>2.29</b>	<b>2.62</b>	<b>2.36</b>
<b>2</b>	<b>CO2</b>	<b>2.40</b>	<b>2.53</b>	<b>2.43</b>
<b>3</b>	<b>CO3</b>	<b>2.49</b>	<b>2.32</b>	<b>2.46</b>
<b>4</b>	<b>CO4</b>	<b>2.37</b>	<b>2.55</b>	<b>2.41</b>
<b>5</b>	<b>CO5</b>	<b>2.05</b>	<b>2.51</b>	<b>2.15</b>
			<b>Average</b>	<b>2.36</b>

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<b>Average PO Mapping (M)</b>	2.60	2.40	2.80	1.80	-	-	-	-	-	-	-	-	2.00	1.40	-
<b>PO Attainment</b>	2.05	1.89	2.20	1.42	-	-	-	-	-	-	-	-	1.57	1.10	-

<b>CO Attainment</b>				
<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
1	CO1	2.29	2.62	2.36
2	CO2	2.40	2.53	2.43
3	CO3	2.49	2.32	2.46
4	CO4	2.37	2.55	2.41
5	CO5	2.05	2.51	2.15
			<b>Average</b>	<b>2.36</b>

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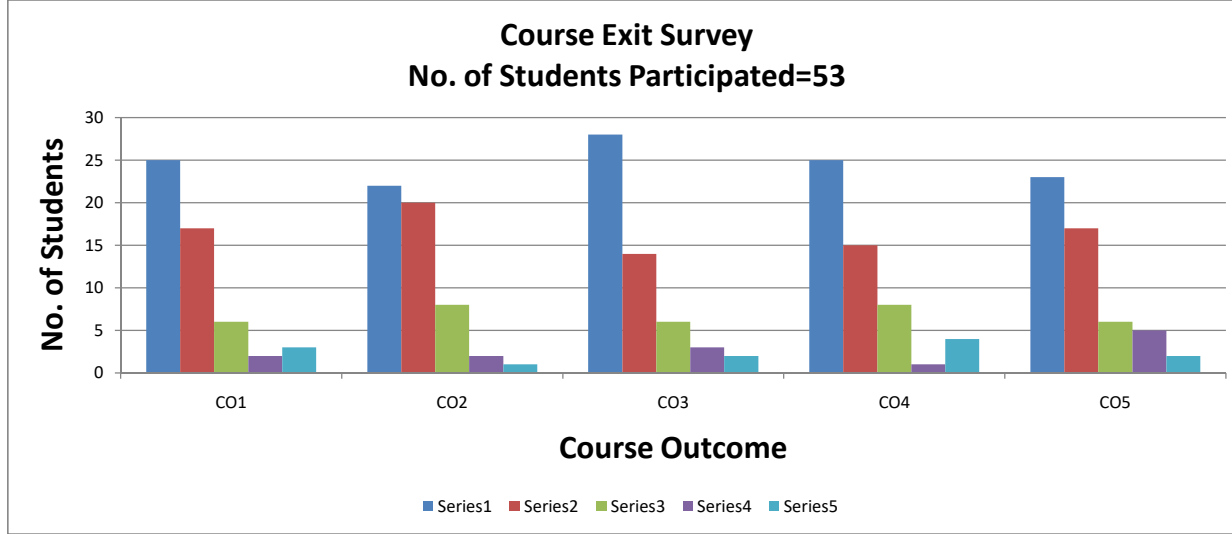
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**Summary of Course Exit Survey**

CO No.	Course Outcome Question	No. of Students Rated and Rating Percentage										Average %	CO Attainment
		5	%	4	%	3	%	2	%	1	%		
		Total number of students participated in Course Exit Survey											
CO1	Rate yourself based on your ability to apply the knowledge of Mathematics in Physical sciences and Engineering.	25	47.17	17	32.08	6	11.32	2	3.77	3	5.66	58.13	2.62
CO2	Rate yourself based on your ability to apply knowledge about Fourier series in engineering subjects	22	41.51	20	37.74	8	15.09	2	3.77	1	1.89	58.40	2.53
CO3	Rate yourself based on your ability to apply knowledge about Laplace Transform in engineering subjects	28	52.83	14	26.42	6	49.84	3	5.66	2	3.77	59.20	2.32
CO4	Rate yourself based on your ability to apply knowledge of complex variables and complex functions, analytic function, conjugate harmonic function and differentiability of complex functions in engineering subjects	25	0.00	15	28.30	8	15.09	1	1.89	4	7.55	57.33	2.55
CO5	Rate yourself based on your ability to apply knowledge of complex integration using different techniques and power series in engineering	23	43.40	17	32.08	6	11.32	5	9.43	2	3.77	56.80	2.51

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	25	17	6	2	3	53
CO2	22	20	8	2	1	53
CO3	28	14	6	3	2	53
CO4	25	15	8	1	4	53
CO5	23	17	6	5	2	53



Sl No	Roll No.	Regd No	CO1	CO2	CO3	CO4	CO5
1	2301001	2301287001	3	2	3	3	1
2	2301002	2301287002	3	3	2	3	3
3	2301003	2301287003	2	3	3	2	3
4	2301004	2301287004	3	3	3	3	3
5	2301005	2301287005	3	1	3	2	1
6	2301006	2301287006	2	3	3	3	2
7	2301007	2301287007	2	2	2	2	3
8	2301008	2301287008	3	3	3	0	3
9	2301009	2301287009	3	3	2	3	2
10	2301010	2301287010	3	3	1	3	3
11	2302146	2301287475	3	3	3	2	1
12	2302147	2301287476	3	2	0	3	3
13	2302148	2301287478	3	3	2	2	3
14	2302149	2301287480	2	0	3	3	2
15	2302150	2301287482	3	2	2	3	3
16	2302151	2301287484	2	3	3	3	3
17	2302152	2301287486	3	2	1	3	2
18	2302153	2301287488	3	3	3	0	2
19	2302154	2301287490	3	3	2	2	3
20	2302155	2301287492	3	3	2	1	3
21	2302156	2301287494	3	3	1	2	1
22	2302157	2301287496	1	3	2	3	3
23	2302158	2301287498	2	2	3	3	3
24	2302159	2301287500	3	2	3	3	3

Rubrics	
Rate-5	3.00
Rate-4	3.00
Rate-3	2.00
Rate-2	1.00
Rate-1	0.00

25	2302160	2301287502	2	3	0	3	3
26	2302161	2301287504	3	3	2	3	0
27	2302162	2301287506	3	3	3	3	3
28	2302163	2301287508	3	1	2	3	1
29	2302164	2301287510	2	3	3	1	3
30	2302165	2301287512	3	2	3	3	3
31	2302166	2301287514	3	3	2	3	2
32	2302167	2301287516	1	3	2	3	3
33	2302168	2301287518	3	3	3	2	3
34	2302169	2301287520	3	3	2	2	2
35	2302170	2301287522	2	1	3	3	3
36	2302171	2301287524	3	3	1	3	2
37	2302172	2301287526	1	2	3	3	3
38	2302173	2301287528	3	3	2	2	2
39	2302174	2301287530	2	1	3	2	3
40	2302175	2301287532	1	3	3	3	3
41	2302176	2301287534	3	2	3	3	3
42	2302177	2301287536	2	3	2	3	2
43	2302178	2301287538	3	3	3	2	2
44	2302179	2301287540	3	3	3	3	3
45	2302180	2301287542	3	0	2	3	3
46	2302181	2301287544	3	3	1	3	3
47	2302182	2301287546	3	3	3	3	2
48	2302183	2301287548	3	3	3	2	3
49	2302184	2301287550	3	3	0	3	3
50	2302185	2301287552	3	3	3	3	3
51	2302186	2301287554	3	2	3	2	3
52	2302187	2301287556	2	3	2	3	3
53	2302188	2301287558	3	3	3	3	2
<b>Average</b>			<b>2.62</b>	<b>2.53</b>	<b>2.32</b>	<b>2.55</b>	<b>2.51</b>

<b>CO Attainment</b>				
<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
<b>1</b>	<b>CO1</b>	<b>2.25</b>	<b>2.62</b>	<b>2.32</b>
<b>2</b>	<b>CO2</b>	<b>2.36</b>	<b>2.53</b>	<b>2.39</b>
<b>3</b>	<b>CO3</b>	<b>2.37</b>	<b>2.32</b>	<b>2.36</b>
<b>4</b>	<b>CO4</b>	<b>2.33</b>	<b>2.55</b>	<b>2.37</b>
<b>5</b>	<b>CO5</b>	<b>2.01</b>	<b>2.51</b>	<b>2.11</b>
			<b>Average</b>	<b>2.31</b>

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<b>CO Attainment</b>				
<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
1	CO1	2.25	2.62	2.32
2	CO2	2.36	2.53	2.39
3	CO3	2.37	2.32	2.36
4	CO4	2.33	2.55	2.37
5	CO5	2.01	2.51	2.11
			<b>Average</b>	<b>2.31</b>

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CO Attainment				
S. No.	CO's Number	Direct Attainment	Indirect Attainment	Overall Attainment
1	CO1	1.63	2.67	1.83
2	CO2	2.25	2.61	2.32
3	CO3	2.38	2.45	2.39
4	CO4	2.25	2.73	2.35
5	CO5	2.00	2.51	2.10
			Average	2.20

Sl No	Roll No.	Regd No	CO1	CO2	CO3	CO4	CO5
1	2202001	2201287001	2	2	3	3	1
2	2202002	2201287002	3	3	2	3	3
3	2202003	2201287003	2	3	2	2	3
4	2202004	2201287004	3	3	3	3	3
5	2202005	2201287005	3	1	2	2	1
6	2202006	2201287007	2	3	3	3	2
7	2202007	2201287009	2	2	2	3	2
8	2202008	2201287010	3	2	3	0	3
9	2202009	2201287011	3	3	3	3	2
10	2202010	2201287012	3	3	1	3	3
11	2202012	2201287014	3	2	3	2	1
12	2202013	2201287015	3	2	0	3	3
13	2202014	2201287016	3	3	3	3	3
14	2202015	2201287017	3	0	2	3	3
15	2202016	2201287019	3	2	2	3	2
16	2202017	2201287020	2	3	2	3	3
17	2202018	2201287021	3	2	3	3	2
18	2202019	2201287023	3	3	3	0	2
19	2202020	2201287022	3	3	2	2	3
20	2202021	2201287024	3	3	2	1	3
21	2202022	2201287025	3	3	1	3	1
22	2202023	2201287026	1	3	3	3	3
23	2202024	2201287027	2	2	3	3	3
24	2202025	2201287029	3	3	3	3	3
25	2202026	2201287030	3	3	0	3	3
26	2202027	2201287031	3	3	2	3	0
27	2202028	2201287032	2	3	3	3	3
28	2202029	2201287033	3	3	3	3	1
29	2202030	2201287034	2	2	2	3	3
30	2202031	2201287035	3	3	3	2	3
31	2202032	2201287036	2	3	2	3	3
32	2202034	2201287037	1	3	3	3	3
33	2202035	2201287039	3	3	3	2	3
34	2202037	2201287041	3	3	3	3	3
35	2202038	2201287042	2	3	3	3	2

36	2202039	2201287043	3	3	1	3	3	
37	2202040	2201287044	3	3	3	3	3	
38	2202041	2201287045	3	3	2	3	2	
39	2202042	2201287046	3	3	3	3	3	
40	2202043	2201287047	3	3	3	3	3	
41	2202044	2201287048	3	2	3	2	3	
42	2202045	2201287049	2	3	2	2	3	
43	2202046	2201287050	3	3	3	3	2	
44	2202047	2201287051	3	3	3	3	3	
45	2202048	2201287052	2	0	3	3	3	
46	2202049	2201287053	3	3	3	3	3	
47	2202050	2201287054	3	3	3	3	2	
48	2202051	2201287055	3	3	3	3	3	
49	2202052	2201287056	3	3	0	3	3	
50	2202053	2201287057	3	3	3	3	3	
51	2202054	2201287058	0	3	2	3	2	
52	2202055	2201287059	3	2	2	3	3	
53	2202056	2201287060	3	3	3	3	3	
54	2202057	2201287061	3	3	3	3	3	
55	2202058	2201287062	2	3	1	2	0	
56	2202059	2201287063	3	3	3	3	3	
57	2202060	2201287064	3	3	2	2	3	
58	2202061	2201287065	3	2	1	3	3	
59	2202062	2201287066	3	3	3	3	2	
60	2202063	2201287067	3	1	3	3	3	
61	2202064	2201287068	3	1	3	3	3	
62	2202065	2201287069	2	3	3	3	3	
63	2202066	2201287070	2	3	3	3	0	
64	2202067	2201287071	3	1	3	3	3	
65	2202068	2201287072	3	3	2	3	3	
66	2202069	2201287073	3	3	3	3	1	
67	2202070	2201287074	3	3	3	3	3	
		<b>Average</b>	<b>2.67</b>	<b>2.61</b>	<b>2.45</b>	<b>2.73</b>	<b>2.51</b>	
		<b>Overall Average</b>	<b>2.62</b>					

<b>Rubrics</b>	<b>Level</b>
<b>Rate-5</b>	<b>3.00</b>
<b>Rate-4</b>	<b>3.00</b>
<b>Rate-3</b>	<b>2.00</b>
<b>Rate-2</b>	<b>1.00</b>
<b>Rate-1</b>	<b>0.00</b>

**Summary of Course Exit Survey**

CO No.	Course Outcome Question	No. of Students Rated and Rating Percentage										Average %
		5	%	4	%	3	%	2	%	1	%	
Total number of students participated in Course Exit Survey											75	

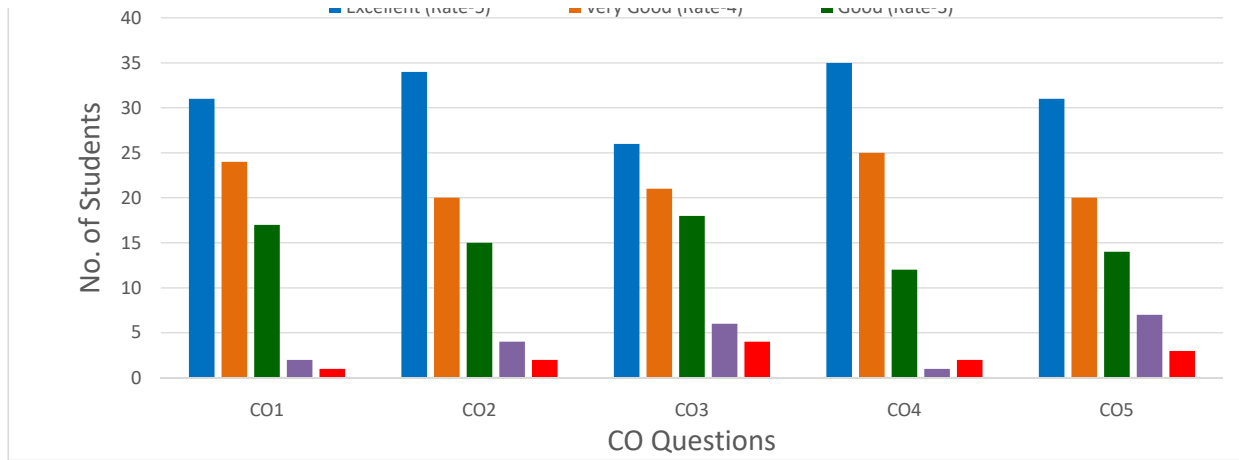
CO1	Rate yourself based on your ability to learn and apply basic techniques used in chemistry laboratory for small/large scale water analyses/purification	31	41.33	24	32.00	17	22.67	2	2.67	1	1.33	81.87
CO2	Rate yourself based on your ability to be able estimate the ions/metal ions present in domestic/industry waste water.	34	45.33	20	26.67	15	20.00	4	5.33	2	2.67	81.33
CO3	Rate yourself based on your ability to utilize the fundamental laboratory techniques for analyses such as titrations, separation / purification and spectroscopy.	26	34.67	21	28.00	18	37.33	6	8.00	4	5.33	75.73
CO4	Rate yourself based on your ability to test the quality of an oil/fat by measuring its iodine or acid value by means of amount of unsaturation for various industrial use	35	46.67	25	33.33	12	16.00	1	1.33	2	2.67	84.00
CO5	Rate yourself based on your ability to verify quality of a lubricant by means of its viscosity or flash point which gives their nature & flammability for various industrial applications	31	41.33	20	26.67	14	18.67	7	9.33	3	4.00	78.40

CO No.	Direct					Indirect					Final				
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
<b>CO Attainment</b>															

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	31	24	17	2	1	75
CO2	34	20	15	4	2	75
CO3	26	21	18	6	4	75
CO4	35	25	12	1	2	75
CO5	31	20	14	7	3	75

Course Exit Survey  
No. of Students Participated = 75

■ Excellent (Rate-5)    
■ Very Good (Rate-4)    
■ Good (Rate-3)



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CO No.	Course Outcome	Highest Cognitive Level	POs	PSOs
CO1	Know the accuracy and precision in measurement	K4	PO1, PO2, PO3, PO6, PO9, PO10, PO12	PSO1, PSO2
CO2	know how to calculate Young's modulus, rigidity modulus of a wire and to understand the concept of vibration mechanism	K5	PO1, PO2, PO3, PO6, PO9, PO10, PO12	PSO1, PSO2
CO3	Determinethe surface tension of liquid and to understand fluid properties	K5	PO1, PO2, PO3, PO6, PO9, PO10, PO12	PSO1, PSO2
CO4	To experiment with wave nature of light in diffraction through a grating and Newton's rings	K4	PO1, PO2, PO3, PO6, PO7, PO9, PO10, PO11, PO12	PSO1, PSO2
CO5	To know the variation of I ~V of PN junction and BJT.	K5	PO1, PO2, PO3, PO6, PO7, PO9, PO10, PO11, PO12	PSO1, PSO2

COs	CO-PO Mapping												CO-PSO Mapping		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	-	-	2	2	-	2	2	2	1	2	3	-
CO2	2	2	2	-	-	1	3	-	2	1	2	1	1	3	-
CO3	1	1	1	-	-	1	2	-	2	1	1	1	2	1	-
CO4	2	2	2	-	-	2	2	-	2	2	2	2	2	1	-
CO5	1	1	1	-	-	1	3	-	2	2	1	2	2	1	-
Average	1.6	1.4	1.4	-	-	1.4	2.4	-	2	1.6	1.6	1.4	1.8	1.8	-

The mapping indicates the level of contribution of each CO to the POs. A common scale is:

3 = High Contribution

2 = Moderate Contribution

1 = Low Contribution

0 = No Contribution

#### Explanation of Mapping

CO1 contributes highly to PO1 (Engineering Knowledge), PO4 (Conduct Investigations), and PO5 (Modern Tool Usage) because it involves setting up experiments and u

CO2 contributes highly to PO1, PO2 (Problem Analysis), and PO4 as it involves data analysis and validation of theoretical concepts.

CO3 aligns with PO1, PO4, and PO5 due to the use of measuring instruments.

CO4 contributes to PO1, PO2, PO3 (Design/Development of Solutions), and PO5 as it involves designing and implementing circuits.

CO5 contributes highly to PO9 (Individual and Teamwork) and PO10 (Communication) as it emphasizes teamwork and report writing.

S. No.	O's Number	Direct Attainment	Indirect Attainment	Total Attainment
1	CO1	1.63	2.67	1.83
2	CO2	2.25	2.61	2.32
3	CO3	2.38	2.45	2.39
4	CO4	2.25	2.73	2.35
5	CO5	2.00	2.51	2.10
			Average	2.20

	PO Attainment												PSO Attainment		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Average PO Mapping	1.6	1.4	1.4	-	-	1.4	2.4	-	2	1.6	1.6	1.4	1.8	1.8	-
PO Attainment	1.18	1.04	1.04	-	-	1.04	1.78	-	1.48	1.18	1.18	1.04	1.33	1.33	-

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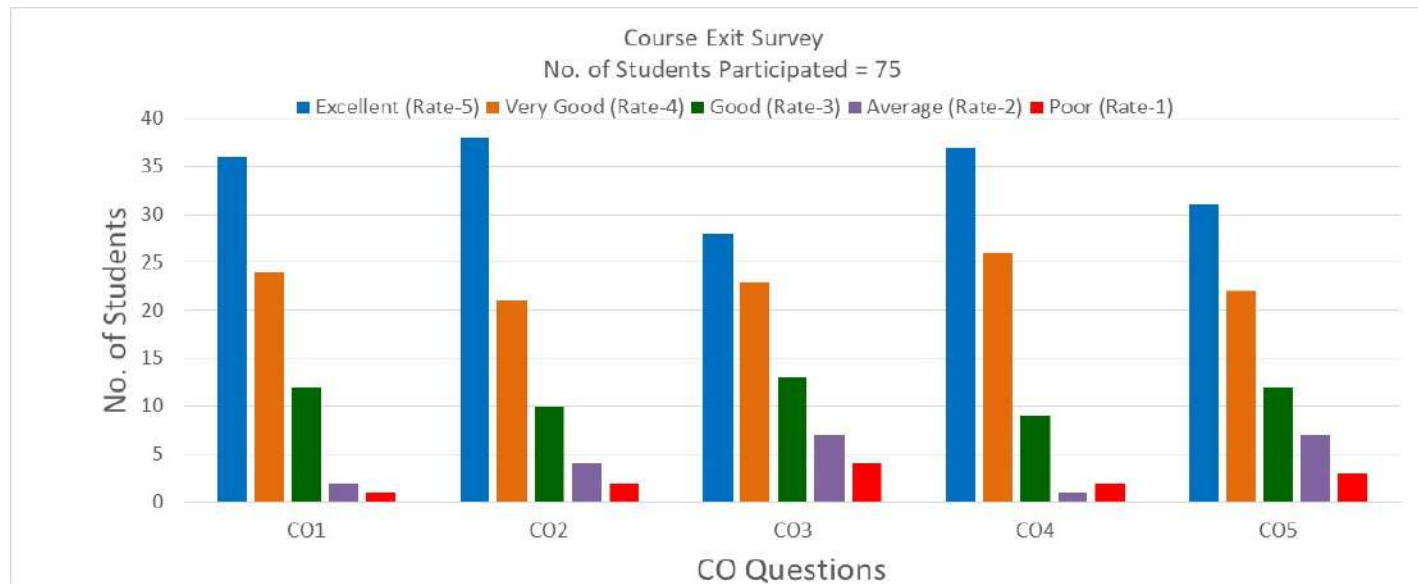




### Summary of Course Exit Survey

CO No.	Course Outcome Question	No. of Students Rated and Rating Percentage										Average %	CO Attainment
		5	%	4	%	3	%	2	%	1	%		
		Total number of students participated in Course Exit Survey											
CO1	Rate yourself based on your ability to classify various fuels based on combustion parameters and understand the working principle of various batteries.	36	51.43	24	34.29	12	17.14	2	2.86	1	1.43	84.53	2.75
CO2	Rate yourself based on your ability to understand the microstructure of a given alloy systems and eutectic systems under a given set of conditions.	38	54.29	21	30.00	10	14.29	4	5.71	2	2.86	83.73	2.68
CO3	Rate yourself based on your ability to Utilize the knowledge of electrochemistry and corrosion science in preventing engineering equipment from corrosion.	28	40.00	23	32.86	13	46.94	7	10.00	4	5.71	77.07	2.48
CO4	Rate yourself based on your ability to apply the concept of molecular spectroscopy to analyze organic compounds using spectrophotometer	37	52.86	26	37.14	9	12.86	1	1.43	2	2.86	85.33	2.77
CO5	Rate yourself based on your ability to Evaluate the benefits and applications of nano materials	31	44.29	22	31.43	12	17.14	7	10.00	3	4.29	78.93	2.53

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	36	24	12	2	1	70
CO2	38	21	10	4	2	70
CO3	28	23	13	7	4	70
CO4	37	26	9	1	2	70
CO5	31	22	12	7	3	70



Sl No	Roll No.	Regd No	CO1	CO2	CO3	CO4	CO5
1	2202071	2201287075	3	2	3	3	1
2	2202072	2201287076	3	3	2	3	3
3	2202073	2201287077	2	3	3	2	3
4	2202076	2201287080	3	3	3	3	3
5	2202077	2201287081	3	1	3	2	1
6	2202078	2201287083	2	3	3	3	2
7	2202079	2201287084	3	3	2	2	3
8	2202080	2201287085	3	3	3	0	3
9	2202081	2201287086	3	3	3	3	2
10	2202082	2201287087	3	3	1	3	3
11	2202083	2201287088	3	3	3	2	1
12	2202084	2201287090	3	2	0	3	3
13	2202085	2201287091	3	3	3	3	3
14	2202086	2201287092	3	0	3	3	2
15	2202087	2201287093	3	2	2	3	3
16	2202088	2201287094	2	3	3	3	3
17	2202089	2201287095	3	2	1	3	2
18	2202090	2201287096	3	3	3	0	2
19	2202091	2201287097	3	3	2	2	3
20	2202092	2201287098	3	3	2	1	3

Rubrics	
Rate-5	3.00
Rate-4	3.00
Rate-3	2.00
Rate-2	1.00
Rate-1	0.00

21	2202093	2201287099	3	3	1	3	1
22	2202094	2201287100	1	3	3	3	3
23	2202095	2201287101	2	2	3	3	3
24	2202096	2201287102	3	3	3	3	3
25	2202097	2201287103	3	3	0	3	3
26	2202098	2201287104	3	3	2	3	0
27	2202099	2201287105	3	3	3	3	3
28	2202100	2201287106	3	3	3	3	1
29	2202101	2201287107	3	3	3	3	3
30	2202102	2201287108	3	3	3	3	3
31	2202103	2201287109	3	3	2	3	3
32	2202104	2201287111	1	3	2	3	3
33	2202105	2201287112	3	3	3	2	3
34	2202106	2201287113	3	3	3	3	3
35	2202107	2201287114	2	3	3	3	3
36	2202108	2201287115	3	3	1	3	2
37	2202109	2201287116	3	3	3	3	3
38	2202110	2201287117	3	3	2	3	2
39	2202111	2201287118	2	3	3	2	3
40	2202112	2201287119	3	3	3	3	3
41	2202113	2201287120	3	2	3	3	3
42	2202114	2201287121	2	3	2	3	3
43	2202115	2201287122	3	3	3	3	2
44	2202116	2201287123	3	3	3	3	3
45	2202117	2201287124	3	0	2	3	3
46	2202118	2201287125	3	3	3	3	3
47	2202119	2201287126	3	3	3	3	2
48	2202120	2201287127	3	3	3	3	3
49	2202074	2201287078	3	3	0	3	3
50	2202121	2201287128	3	3	3	2	3
51	2202122	2201287129	0	3	2	3	3
52	2202123	2201287130	3	2	3	3	3
53	2202124	2201287131	3	3	3	3	3
54	2202125	2201287132	3	2	3	3	3
55	2202126	2201287133	2	3	1	3	0
56	2202127	2201287134	3	3	3	3	3
57	2202128	2201287135	3	3	3	3	3
58	2202129	2201287136	3	3	1	3	2
59	2202130	2201287137	3	3	3	3	2
60	2202131	2201287138	2	1	3	2	3
61	2202132	2201287139	3	1	3	3	3
62	2202133	2201287140	3	3	3	3	3
63	2202134	2201287141	3	3	3	3	0
64	2202135	2201287142	3	1	3	3	3

65	2202136	2201287143	3	3	2	3	3
66	2202137	2201287144	2	3	3	3	1
67	2202138	2201287145	3	3	3	3	3
68	2202139	2201287146	3	2	3	3	3
69	2202140	2201287147	2	3	3	3	2
70	2202141	2201287148	3	3	0	3	3
<b>Average</b>			<b>2.74</b>	<b>2.67</b>	<b>2.47</b>	<b>2.76</b>	<b>2.53</b>

<b>CO Attainment</b>				
<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
<b>1</b>	<b>CO1</b>	<b>2.48</b>	<b>2.74</b>	<b>2.53</b>
<b>2</b>	<b>CO2</b>	<b>2.63</b>	<b>2.67</b>	<b>2.64</b>
<b>3</b>	<b>CO3</b>	<b>2.58</b>	<b>2.47</b>	<b>2.56</b>
<b>4</b>	<b>CO4</b>	<b>2.66</b>	<b>2.76</b>	<b>2.68</b>
<b>5</b>	<b>CO5</b>	<b>2.42</b>	<b>2.53</b>	<b>2.44</b>
			<b>Average</b>	<b>2.57</b>

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	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>Average PO Mapping (M)</b>	2.80	2.60	2.60	2.20	2.25	1.67	1.33	-	-	-	1.50	1.50	2.20	2.40	-
<b>PO Attainment</b>	2.36	2.19	2.19	1.86	1.90	1.41	1.12	-	-	-	1.27	1.27	1.86	2.02	-

<b>CO Attainment</b>				
<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
1	CO1	2.48	2.74	2.53
2	CO2	2.63	2.67	2.64
3	CO3	2.58	2.47	2.56
4	CO4	2.66	2.76	2.68
5	CO5	2.42	2.53	2.44
			<b>Average</b>	<b>2.57</b>

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Plan of Action for improvement:	More number of logical questions to be included in assignment
	Doubt Clearing Classes/Tutorial Classes are required to be conducted

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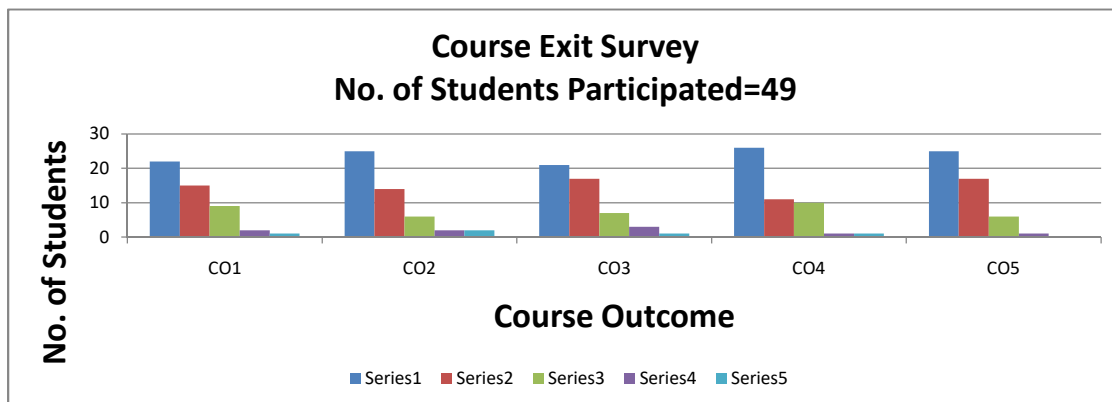
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### Summary of Course Exit Survey

CO No.	Course Outcome Question	No. of Students Rated and Rating Percentage										Average %	CO Attainment
		5	%	4	%	3	%	2	%	1	%		
		Total number of students participated in Course Exit Survey											
CO1	Rate yourself based upon the ability to demonstrate the applicability of the concept of organizational behaviour to understand	22	44.90	15	30.61	9	18.37	2	4.08	1	2.04	53.87	2.47
CO2	Rate yourself based upon the ability to demonstrate the applicability of analysing the complexities associated with management of individual	25	51.02	14	28.57	6	12.24	2	4.08	2	4.08	54.67	2.33
CO3	Rate yourself based upon the ability to analyse the complexities associated with management of the group behaviour in the	21	42.86	17	34.69	7	70.80	3	6.12	1	2.04	53.60	2.27
CO4	Rate yourself based upon the ability to demonstrate how the organizational behaviour can integrate in understanding the motivation behind behaviour	26	53.06	11	22.45	10	20.41	1	2.04	1	2.04	55.20	2.57
CO5	Rate yourself based upon the ability to analyse the various stressors and identifying the various ways to manage it.	25	51.02	17	34.69	6	12.24	1	2.04	0	0.00	56.80	2.47

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	22	15	9	2	1	49
CO2	25	14	6	2	2	49
CO3	21	17	7	3	1	49
CO4	26	11	10	1	1	49
CO5	25	17	6	1	0	49



Sl No	Roll No.	Regd No	CO1	CO2	CO3	CO4	CO5
1	2210001	2201287355	3	2	3	3	1
2	2210002	2201287356	3	3	2	3	3
3	2210003	2201287357	2	3	3	2	3
4	2210004	2201287358	3	3	3	3	3
5	2210005	2201287359	3	1	1	2	1
6	2210006	2201287360	2	3	3	3	2
7	2210007	2201287361	3	1	2	2	3
8	2210008	2201287362	3	3	3	0	1
9	2210009	2201287363	3	3	3	3	2
10	2210010	2201287364	3	3	1	3	3
11	2210011	2201287365	3	3	3	2	1
12	2210012	2201287366	3	2	0	3	3
13	2210013	2201287367	3	3	3	3	3
14	2210014	2201287368	3	0	3	1	2
15	2210015	2231287037	3	2	2	3	3
16	2210016	2231287039	2	3	3	3	3
17	2210017	2231287041	3	2	1	3	2
18	2210018	2231287043	3	3	3	0	2
19	2210019	2231287045	3	3	2	2	3
20	2210020	2231287047	3	3	2	1	3
21	2210021	2231287049	3	3	1	3	1
22	2210022	2231287051	1	3	3	3	3
23	2210023	2231287053	2	2	1	3	3
24	2210024	2231287055	1	1	3	3	3
25	2210025	2231287057	3	3	0	3	3
26	2210026	2231287059	3	3	2	3	0
27	2210027	2231287061	1	1	3	1	3
28	2210028	2231287063	3	3	3	3	1
29	2210029	2231287065	1	3	1	3	3

Rubrics	
Rate-5	3.00
Rate-4	3.00
Rate-3	2.00
Rate-2	1.00
Rate-1	0.00

30	2210030	2231287067	3	1	3	3	3
31	2210031	2231287069	3	3	2	3	3
32	2210032	2231287071	1	1	2	1	3
33	2210033	2231287073	2	3	3	2	3
34	2210034	2231287075	3	3	1	3	3
35	2210035	2231287077	2	1	3	3	3
36	2210036	2231287079	1	3	1	3	2
37	2210037	2231287081	2	3	3	3	3
38	2210038	2231287083	3	3	2	3	2
39	2210039	2231287085	2	1	3	2	3
40	2210040	2231287087	3	3	3	3	1
41	2210041	2231287089	3	2	3	3	3
42	2210042	2231287091	2	2	2	3	3
43	2210043	2231287093	2	3	3	3	2
44	2210044	2231287095	1	1	3	3	3
45	2210045	2231287097	3	0	2	3	3
46	2210046	2231287099	3	3	3	3	3
47	2210047	2231287101	1	3	3	3	2
48	2210048	2231287103	3	3	3	3	3
49	2210049	2231287105	3	1	0	3	3
<b>Average</b>			<b>2.47</b>	<b>2.33</b>	<b>2.27</b>	<b>2.57</b>	<b>2.47</b>

<b>CO Attainment</b>				
<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
<b>1</b>	<b>CO1</b>	<b>2.28</b>	<b>2.47</b>	<b>2.32</b>
<b>2</b>	<b>CO2</b>	<b>2.45</b>	<b>2.33</b>	<b>2.43</b>
<b>3</b>	<b>CO3</b>	<b>2.59</b>	<b>2.27</b>	<b>2.52</b>
<b>4</b>	<b>CO4</b>	<b>2.55</b>	<b>2.57</b>	<b>2.55</b>
<b>5</b>	<b>CO5</b>	<b>2.23</b>	<b>2.47</b>	<b>2.27</b>
			<b>Average</b>	<b>2.42</b>

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**Course Name: ORGANISATIONAL BEHAVIOUR**

**Course Code: 23BTTHS303**

**CO Attainment**

CO No.	Course Outcome	Highest Cognitive Level	POs	PSOs
CO1	Demonstrate the applicability of the concept of organizational behaviour to understand the behaviour of people in the organization.	K3	6,7,8,9,10,11,	3
CO2	Demonstrate the applicability of analysing the complexities associated with management of individual behaviour in the organization.	K2	6,7,8,9,10,11,	3
CO3	Analyse the complexities associated with management of the group behaviour in the organization.	K3	6,7,8,9,10,11,	3
CO4	Demonstrate how the organizational behaviour can integrate in understanding the motivation behind behaviour of people in the organization.	K3	6,7,8,9,10,11,	3
CO5	Analyse the various stressors and identifying the various ways to manage it. A11:M18	K3	6,7,8,9,10,11,	3

CO No.	CO Mapping with PO												CO-PSO Mapping		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1						1	2	1	2	2	2	1			1
CO2						2	2	2	2	1	1	1			1
CO3						2	1	2	1	2	1	2			1
CO4						1	1	2	1	1	1	2			1
CO5						1	2	1	1	1	1	2			1
<b>AVERAGE</b>						1.4	1.6	1.6	1.4	1.4	1.2	1.6			1

**3-High,**

**2-Medium,**

**1-Low**

Here in the table, '3' corresponds to a high correlation, '2' corresponds to a medium correlation, and '1' corresponds to a low correlation between CO and PO/PSO.

	PO Attainment												PSO Attainment		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>Average PO Mapping (M)</b>						1.40	1.60	1.60	1.40	1.40	1.20	1.60			1.00
<b>PO Attainment</b>						1.20	1.40	1.60	1.40	1.60	1.40	1.64			1.00

**CO Attainment**

<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
1	CO1	2.28	2.47	2.32
2	CO2	2.45	2.33	2.43
3	CO3	2.59	2.27	2.52
4	CO4	2.55	2.57	2.55
5	CO5	2.23	2.47	2.27
			<b>Average</b>	<b>2.42</b>

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CO No.	Course Outcome	Highest Cognitive Level	POs	PSOs
CO1	Identify, formulate and solve Engineering problems. Apply the knowledge of Mathematics in Physical sciences and Engineering.	K3	1, 2, 3, 4,5,12	1, 2
CO2	Acquire knowledge about Fourier series.	K3	1, 2, 3, 4,5,12	1, 2
CO3	Acquire knowledge about Laplace Transform.	K3	1, 2, 3, 4,5,12	1, 2
CO4	Acquire knowledge about complex variables and complex functions, analytic function, conjugate harmonic function and differentiability of complex functions.	K4	1, 2, 3, 4,5,12	1, 2
CO5	Acquire knowledge about complex integration using different techniques and acquire knowledge about power series.	K4	1, 2, 3, 4,5,12	1, 2

Rubrics	
>=80% students	3
70 to 79% students	2
60 to 69 % students	1
Less than 60%	0

Reason for low attainment:	Mistakes in analysing and calculation of the problem
Plan of Action for improvement:	More Numericals are required to be provided in assignments. Doubt Clearing Classes/Tutorial Classes are required to be conducted

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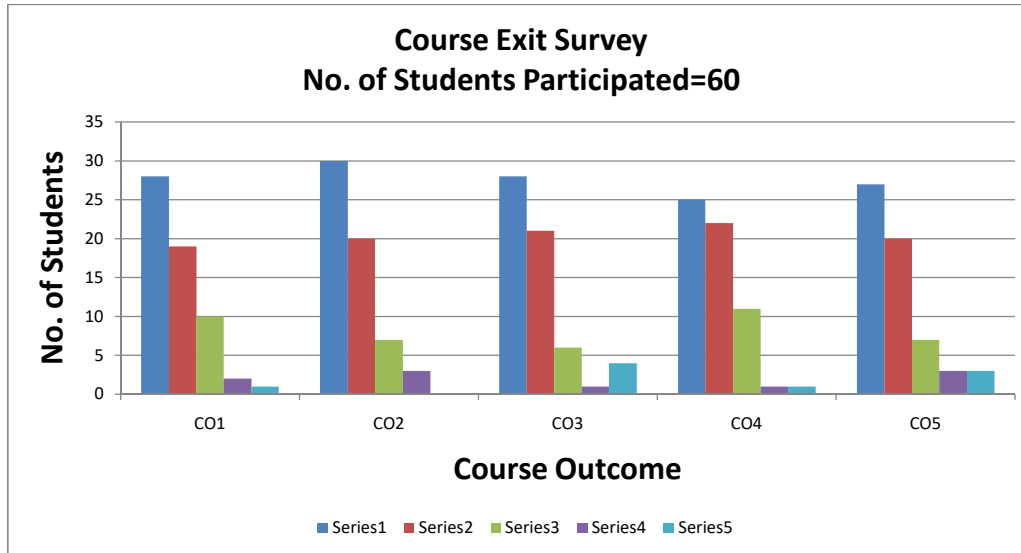
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### Summary of Course Exit Survey

CO No.	Course Outcome Question	No. of Students Rated and Rating Percentage										Average %	CO Attainment
		5	%	4	%	3	%	2	%	1	%		
		Total number of students participated in Course Exit Survey											
CO1	Rate yourself based on your ability to apply the knowledge of Mathematics in Physical sciences and Engineering.	28	46.67	19	31.67	10	16.67	2	3.33	1	1.67	66.93	2.63
CO2	Rate yourself based on your ability to apply knowledge about Fourier series in engineering subjects	30	50.00	20	33.33	7	11.67	3	5.00	0	0.00	68.53	2.47
CO3	Rate yourself based on your ability to apply knowledge about Laplace Transform in engineering subjects	28	46.67	21	35.00	6	58.33	1	1.67	4	6.67	66.13	2.45
CO4	Rate yourself based on your ability to apply knowledge of complex variables and complex functions, analytic function, conjugate harmonic	25	41.67	22	36.67	11	18.33	1	1.67	1	1.67	66.40	2.48
CO5	Rate yourself based on your ability to apply knowledge of complex integration using different techniques and power series in engineering	27	45.00	20	33.33	7	11.67	3	5.00	3	5.00	65.33	2.48

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	28	19	10	2	1	60
CO2	30	20	7	3	0	60
CO3	28	21	6	1	4	60
CO4	25	22	11	1	1	60
CO5	27	20	7	3	3	60



Sl No	Roll No.	Regd No	CO1	CO2	CO3	CO4	CO5
1	2302001	2301287334	3	2	3	3	1
2	2302002	2301287335	3	3	2	3	3
3	2302003	2301287336	2	3	3	2	3
4	2302004	2301287337	3	3	3	3	3
5	2302005	2301287338	3	1	3	2	1
6	2302006	2301287339	2	3	3	3	2
7	2302007	2301287340	2	3	2	2	3
8	2302008	2301287341	3	3	3	0	3
9	2302009	2301287342	3	3	3	3	2
10	2302010	2301287343	3	3	1	3	3
11	2302011	2301287344	2	3	3	2	1
12	2302012	2301287345	2	2	0	3	3
13	2302013	2301287346	3	3	3	3	3
14	2302014	2301287347	3	0	3	3	2
15	2302015	2301287348	3	2	2	3	3
16	2302016	2301287349	2	3	3	3	3
17	2302017	2301287350	3	2	1	3	2
18	2302018	2301287351	3	3	3	0	2
19	2302019	2301287352	3	3	2	2	3
20	2302020	2301287353	3	3	2	1	3

Rubrics	
Rate-5	3.00
Rate-4	3.00
Rate-3	2.00
Rate-2	1.00
Rate-1	0.00

21	2302021	2301287354	3	3	1	3	1
22	2302022	2301287355	1	3	3	3	3
23	2302023	2301287356	2	2	3	3	3
24	2302024	2301287357	3	3	3	3	3
25	2302025	2301287358	3	3	0	3	3
26	2302026	2301287359	3	1	2	3	0
27	2302027	2301287360	3	3	3	3	3
28	2302028	2301287361	3	3	3	1	1
29	2302029	2301287362	3	1	3	3	3
30	2302030	2301287363	3	3	3	1	3
31	2302031	2301287364	3	3	2	3	3
32	2302032	2301287365	1	3	2	3	3
33	2302033	2301287366	3	2	3	2	3
34	2302034	2301287367	3	3	3	3	3
35	2302035	2301287368	2	2	3	3	3
36	2302036	2301287369	2	1	1	3	2
37	2302037	2301287370	3	3	3	2	2
38	2302038	2301287371	3	3	2	1	2
39	2302039	2301287372	2	3	3	2	1
40	2302040	2301287373	3	3	3	3	3
41	2302041	2301287374	2	2	3	3	3
42	2302042	2301287375	2	2	2	3	2
43	2302043	2301287376	3	3	3	2	2
44	2302044	2301287377	3	3	3	3	3
45	2302045	2301287378	3	0	2	3	3
46	2302046	2301287379	3	3	3	3	3
47	2302047	2301287380	3	2	3	1	2
48	2302048	2301287381	3	3	3	3	3
49	2302049	2301287382	3	3	0	2	3
50	2302050	2301287383	3	1	3	2	3
51	2302051	2301287384	0	3	2	3	3
52	2302052	2301287385	2	2	3	3	3
53	2302053	2301287386	3	3	3	1	3
54	2302054	2301287387	3	2	3	3	3
55	2302055	2301287388	2	3	1	3	0
56	2302056	2301287389	3	1	3	3	3
57	2302057	2301287390	3	3	3	2	3
58	2302058	2301287391	3	3	1	3	2
59	2302059	2301287392	3	3	3	3	2
60	2302060	2301287393	2	1	3	2	3
<b>Average</b>			<b>2.63</b>	<b>2.47</b>	<b>2.45</b>	<b>2.48</b>	<b>2.48</b>

<b>CO Attainment</b>				
<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
<b>1</b>	<b>CO1</b>	<b>2.40</b>	<b>2.63</b>	<b>2.45</b>
<b>2</b>	<b>CO2</b>	<b>2.61</b>	<b>2.47</b>	<b>2.58</b>
<b>3</b>	<b>CO3</b>	<b>2.52</b>	<b>2.45</b>	<b>2.51</b>
<b>4</b>	<b>CO4</b>	<b>2.56</b>	<b>2.48</b>	<b>2.54</b>
<b>5</b>	<b>CO5</b>	<b>2.40</b>	<b>2.48</b>	<b>2.42</b>
			<b>Average</b>	<b>2.50</b>

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Course Name: Engineering PHY

Course Code: 23BTBS102

CO No.	Course Outcome	Highest Cognitive Level	POs	PSOs
CO1	Identify, formulate and solve Engineering problems. Apply the knowledge of Mathematics in Physical sciences and Engineering.	K3	1,2,3,4,5,12	1, 2
CO2	Acquire knowledge about Fourier series.	K3	1,2,3,4,5,12	1, 2
CO3	Acquire knowledge about Laplace Transform.	K3	1,2,3,4,5,12	1, 2
CO4	Acquire knowledge about complex variables and complex functions, analytic function, conjugate harmonic function and differentiability of complex functions.	K4	1,2,3,4,5,12	1, 2
CO5	Acquire knowledge about complex integration using different techniques and acquire knowledge about power series.	K4	1,2,3,4,5,12	1, 2

CO No.	CO Mapping with PO												CO-PSO Mapping		
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	1	1	-	-	-	-	-	-	2	1	1	-
CO2	2	2	3	1	1	-	-	-	-	-	-	2	1	1	-
CO3	2	2	3	1	1	-	-	-	-	-	-	2	1	1	-
CO4	2	2	2	2	1	-	-	-	-	-	-	2	1	1	-
CO5	3	3	3	2	1	-	-	-	-	-	-	2	1	1	-
<b>AVERAGE</b>	2.20	2.40	2.80	1.40	1	-	-	-	-	-	-	2	1.00	1.00	-

**3-High,**

**2-Medium,**

**1-Low**

Here in the table, '3' corresponds to a high correlation, '2' corresponds to a medium correlation, and '1' corresponds to a low correlation between CO and PO/PSO.

	PO Attainment												PSO Attainment		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>Average PO Mapping (M)</b>	2.20	2.40	2.80	1.40	1.00	-	-	-	-	-	-	2.00	1.00	1.00	-
<b>PO Attainment</b>	1.83	2.00	2.33	1.17	0.83	-	-	-	-	-	-	1.66	0.83	0.83	-

CO Attainment				
S. No.	CO's Number	Direct Attainment	Indirect Attainment	Overall Attainment
1	CO1	2.40	2.63	2.45
2	CO2	2.61	2.47	2.58
3	CO3	2.52	2.45	2.51
4	CO4	2.56	2.48	2.54
5	CO5	2.40	2.48	2.42
			<b>Average</b>	<b>2.50</b>

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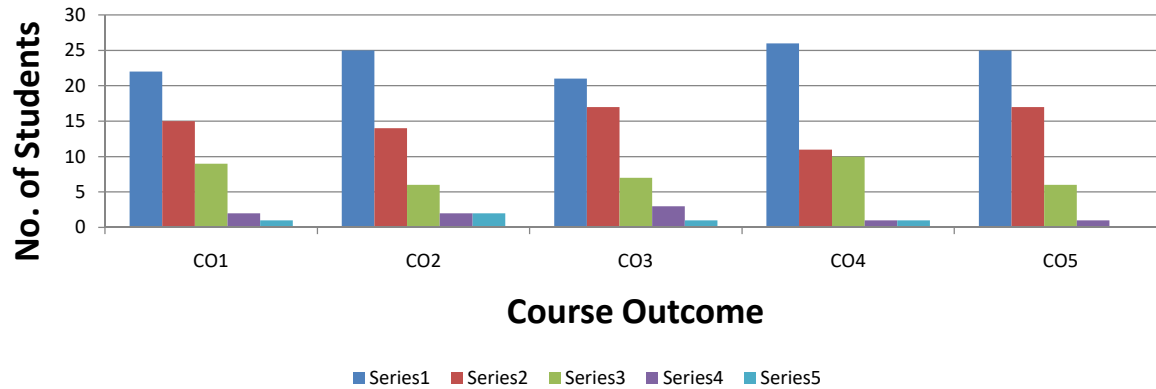


### Summary of Course Exit Survey

CO No.	Course Outcome Question	No. of Students Rated and Rating Percentage										Average %	CO Attainment
		5	%	4	%	3	%	2	%	1	%		
		Total number of students participated in Course Exit Survey											
CO1	Rate yourself based on how to evaluate the economic theories, cost concepts and pricing policies	22	44.90	15	30.61	9	18.37	2	4.08	1	2.04	53.87	2.47
CO2	Rate yourself based on how to understand the measures of national income, the functions of banks and concepts of globalization	25	51.02	14	28.57	6	12.24	2	4.08	2	4.08	54.67	2.33
CO3	Rate yourself based on the ability to apply the concepts of financial management for project appraisal	21	42.86	17	34.69	7	70.80	3	6.12	1	2.04	53.60	2.27
CO4	Rate yourself based on how to understand accounting systems and analyze financial statements using ratio analysis	26	53.06	11	22.45	10	20.41	1	2.04	1	2.04	55.20	2.57
CO5	Rate yourself based on your ability to understand the impact of inflation, taxation, depreciation. Financial planning, economic basis for	25	51.02	17	34.69	6	12.24	1	2.04	0	0.00	56.80	2.47

Course Outcome	Excellent (Rate-5)	Very Good (Rate-4)	Good (Rate-3)	Average (Rate-2)	Poor (Rate-1)	Total
CO1	22	15	9	2	1	49
CO2	25	14	6	2	2	49
CO3	21	17	7	3	1	49
CO4	26	11	10	1	1	49
CO5	25	17	6	1	0	49

**Course Exit Survey**  
**No. of Students Participated=49**



SI No	Roll No.	Regd No	CO1	CO2	CO3	CO4	CO5
1	2210001	2201287355	3	2	3	3	1
2	2210002	2201287356	3	3	2	3	3
3	2210003	2201287357	2	3	3	2	3
4	2210004	2201287358	3	3	3	3	3
5	2210005	2201287359	3	1	1	2	1
6	2210006	2201287360	2	3	3	3	2
7	2210007	2201287361	3	1	2	2	3
8	2210008	2201287362	3	3	3	0	1
9	2210009	2201287363	3	3	3	3	2
10	2210010	2201287364	3	3	1	3	3
11	2210011	2201287365	3	3	3	2	1
12	2210012	2201287366	3	2	0	3	3
13	2210013	2201287367	3	3	3	3	3
14	2210014	2201287368	3	0	3	1	2
15	2210015	2231287037	3	2	2	3	3
16	2210016	2231287039	2	3	3	3	3
17	2210017	2231287041	3	2	1	3	2
18	2210018	2231287043	3	3	3	0	2
19	2210019	2231287045	3	3	2	2	3
20	2210020	2231287047	3	3	2	1	3
21	2210021	2231287049	3	3	1	3	1
22	2210022	2231287051	1	3	3	3	3

Rubrics	
Rate-5	3.00
Rate-4	3.00
Rate-3	2.00
Rate-2	1.00
Rate-1	0.00

23	2210023	2231287053	2	2	1	3	3
24	2210024	2231287055	1	1	3	3	3
25	2210025	2231287057	3	3	0	3	3
26	2210026	2231287059	3	3	2	3	0
27	2210027	2231287061	1	1	3	1	3
28	2210028	2231287063	3	3	3	3	1
29	2210029	2231287065	1	3	1	3	3
30	2210030	2231287067	3	1	3	3	3
31	2210031	2231287069	3	3	2	3	3
32	2210032	2231287071	1	1	2	1	3
33	2210033	2231287073	2	3	3	2	3
34	2210034	2231287075	3	3	1	3	3
35	2210035	2231287077	2	1	3	3	3
36	2210036	2231287079	1	3	1	3	2
37	2210037	2231287081	2	3	3	3	3
38	2210038	2231287083	3	3	2	3	2
39	2210039	2231287085	2	1	3	2	3
40	2210040	2231287087	3	3	3	3	1
41	2210041	2231287089	3	2	3	3	3
42	2210042	2231287091	2	2	2	3	3
43	2210043	2231287093	2	3	3	3	2
44	2210044	2231287095	1	1	3	3	3
45	2210045	2231287097	3	0	2	3	3
46	2210046	2231287099	3	3	3	3	3
47	2210047	2231287101	1	3	3	3	2
48	2210048	2231287103	3	3	3	3	3
49	2210049	2231287105	3	1	0	3	3
<b>Average</b>			<b>2.47</b>	<b>2.33</b>	<b>2.27</b>	<b>2.57</b>	<b>2.47</b>

<b>CO Attainment</b>				
<b>S. No.</b>	<b>CO's Number</b>	<b>Direct Attainment</b>	<b>Indirect Attainment</b>	<b>Overall Attainment</b>
<b>1</b>	<b>CO1</b>	<b>2.10</b>	<b>2.47</b>	<b>2.17</b>
<b>2</b>	<b>CO2</b>	<b>2.14</b>	<b>2.33</b>	<b>2.18</b>
<b>3</b>	<b>CO3</b>	<b>2.11</b>	<b>2.27</b>	<b>2.14</b>
<b>4</b>	<b>CO4</b>	<b>2.13</b>	<b>2.57</b>	<b>2.22</b>
<b>5</b>	<b>CO5</b>	<b>2.12</b>	<b>2.47</b>	<b>2.19</b>
			<b>Average</b>	<b>2.12</b>

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**Course Name: Engineering Economics and Costing**

**Course Code: 23BTTHS305**

CO No.	Course Outcome	Highest Cognitive Level	POs	PSOs
CO1	Evaluate the economic theories, cost concepts and pricing policies	K3	6.7.8.9 .10.11.	3
CO2	Understand the measures of national income, the functions of banks and concepts of globalization	K2	6.7.8.9 .10.11.	3
CO3	Apply the concepts of financial management for project appraisal	K3	6.7.8.9 .10.11.	3
CO4	Understand accounting systems and analyze financial statements using ratio analysis	K3	6.7.8.9 .10.11.	3
CO5	Understand the impact of inflation, taxation, depreciation. Financial planning, economic basis for replacement, project scheduling, and legal and regulatory issues are introduced and applied to economic	K3	6.7.8.9 .10.11.	3

CO No.	CO Mapping with PO												CO-PSO Mapping		
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1						1	2	1	2	2	2	1			3
CO2						2	2	2	2	1	1	1			3
CO3						2	1	2	1	2	1	2			3
CO4						1	1	2	1	1	1	2			3
CO5						1	2	1	1	1	1	2			3
<b>AVERAGE</b>						1.4	1.6	1.6	1.4	1.4	1.2	1.6			3

**3-High,**

**2-Medium,**

**1-Low**

Here in the table, '3' corresponds to a high correlation, '2' corresponds to a medium correlation, and '1' corresponds to a low correlation between CO and PO/PSO.

**PO Attainment**

**PSO Attainment**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
<b>Average PO Mapping (M)</b>						1.40	1.60	1.60	1.40	1.40	1.20	1.60			0.00
<b>PO Attainment</b>						1.40	1.70	1.60	1.80	1.50	1.60	1.61			0.00

<b>CO Attainment</b>				
S. No.	CO's Number	Direct Attainment	Indirect Attainment	Overall Attainment
1	CO1	2.10	2.47	2.17
2	CO2	2.14	2.33	2.18
3	CO3	2.11	2.27	2.14
4	CO4	2.13	2.57	2.22
5	CO5	2.12	2.47	2.19
			<b>Average</b>	<b>2.12</b>

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