

CANARA ENGINEERING COLLEGE

BENJANAPADAVU – 574219, Bantwal Taluk, D K District, Karnataka

www.canaraengineering.in

Feedback on Learning Outcomes - Department of ECE

Sample Feedback Forms - Pg. No.2

Feedback Analysis - Pg.No. 10



Data to Information & Information to Insight

Dashboard

Online Users : 11 Welcome, Prathibha . M (0120140018)

Logout (logout)

Under courses.

Criteria-7 CO PO Report

Admission Year:

Select Branch:

Print Report

CO PO Report-2015-2016 Electronics & Communication Engineering

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	15MAT11	6.5	CO1 CO2 CO3 CO4 CO5 6.5	CO1 CO2 CO3 CO4 CO5 5.63												
2	15CHE12	5.64	CO1 CO2 CO3 CO4 CO5 3.76	CO1 CO3 CO4 CO5 3.76												
3	15PCD13	3.5	CO1 CO2 CO3 CO4 CO5 2.8	CO1 CO3 CO4 CO5 2.63	CO1 CO2 CO3 CO4 CO5 3.27											
4	15CDE14	9.07	CO1 CO2 CO3 CO4 CO5 9.07	CO1 CO2 CO3 CO4 CO5 6.05			CO3 CO4 CO5 9.07							CO1 CO2 CO3 CO4 CO5 3.02		

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
5	15ELN15	5.64	CO1 CO2 CO3 CO4 CO5 4.89	CO1 CO2 CO3 CO4 3.76												
6	15CPL16	10	CO1 CO2 10	CO1 CO2 CO3 CO5 5.83	CO5 6.67	CO3 CO4 8.33	CO4 3.33									
7	15CHEL17	10	CO1 CO2 CO3 CO4 CO5 6.67	CO1 CO2 CO3 CO4 CO5 6.67								CO3 CO4 CO5 6.67				
8	15CIV18	3.5						CO1 CO2 CO3 CO4 CO5 2.33	CO1 CO2 CO3 CO4 CO5 2.33	CO1 CO2 CO3 CO4 CO5 2.33				CO1 CO2 CO3 CO4 CO5 2.33		
9	15MAT21	5.64	CO1 CO2 CO3 CO4 CO5 5.64	CO1 CO2 CO3 CO4 CO5 4.89												
10	15PHY22	7.36	CO1 CO2 CO3 CO4 CO5 7.36	CO1 CO2 CO3 CO4 CO5 4.91												
11	15CIV23	3.5	CO1 CO2 CO3 CO4 CO5 3.03	CO1 CO2 CO3 CO4 CO5 3.03												
12	15EME24	8.21	CO1 CO2 CO3 CO4 CO5 5.47	CO1 CO2 CO3 CO4 CO5 5.47												
13	15ELE25	9.07	CO1 CO2 CO3 CO4 CO5 8.47	CO1 CO2 CO3 CO4 CO5 6.65												

Sl. No.	Course Code	CO Attainment 10 Scale	CO Attainment												PSO			
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2		
14	15WSSL26	10	CO1 CO2 CO3 CO4 CO5 5.33	CO1 CO2 CO3 CO4 CO5 6.67									CO1 CO2 CO3 CO4 CO5 6.67					
15	15PHYL27	10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 6.67									CO1 CO2 CO3 CO4 CO5 6.67					
16	15CPH28	3.5						CO1 CO2 CO3 CO4 CO5 3.5		CO1 CO2 CO3 CO4 CO5 3.5				CO1 CO2 CO3 CO4 CO5 3.5				
17	15MAT31	5.8	CO1 CO2 CO3 CO4 CO5 5.41	CO3 CO4 CO5 5.16												CO2 CO3 CO4 3.87		
18	15EC32	8.8	CO1 CO2 CO3 CO4 CO5 5.87	CO1 CO2 CO3 CO4 CO5 5.87				CO1 CO4 CO5 5.87								CO1 CO2 CO3 CO4 CO5 8.8	CO1 CO3 CO4 5.87	
19	15EC33	3.37	CO1 CO2 CO3 CO4 CO5 3.37	CO1 CO2 CO3 CO4 CO5 3.37												CO1 CO2 CO3 CO4 CO5 3.37		
20	15EC835	8.16	CO1 CO2 CO3 CO4 CO5 5.44	CO1 CO2 CO3 CO4 CO5 5.44														CO1 CO2 CO3 CO4 CO5 5.44
21	15EC36	6.79	CO1 CO2 CO3 CO4 CO5 6.79	CO1 CO2 CO3 CO4 CO5 6.34				CO1 CO2 CO3 CO4 CO5 3.17								CO1 CO2 CO3 CO4 CO5 2.26	CO1 CO2 CO3 CO4 CO5 3.62	
22	15ECL37	10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10												CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
23	15ECL38	10	CO1 CO2 CO3 CO5 10	CO1 CO2 CO3 CO5 10			CO1 CO2 CO5 10				CO1 6.67	CO4 CO5 10			CO1 CO2 CO3 CO4 CO5 8.67	
24	15EC34	8.63	CO1 CO2 CO3 CO4 CO5 8.63	CO1 CO2 CO3 CO4 CO5 5.75			CO1 CO2 8.63						CO1 CO2 8.63		CO1 CO2 CO3 CO4 CO5 8.63	CO1 CO2 CO3 CO4 CO5 2.88
25	15MAT41	6.83	CO1 CO2 CO3 CO4 CO5 6.83	CO1 CO2 CO3 CO4 CO5 5.46											CO1 CO2 CO3 CO4 6.26	CO3 CO4 CO5 5.31
26	15EC741	5.41	CO1 CO2 CO3 CO4 CO5 5.41	CO1 CO2 CO3 CO4 CO5 5.41											CO1 CO2 CO3 CO4 3.61	CO1 CO2 CO3 CO4 CO5 5.41
27	15EC42	6.01	CO1 CO2 CO5 4.67	CO1 CO2 CO5 5.34	CO3 CO4 CO5 6.01		CO3 CO4 CO5 6.01								CO1 CO2 CO3 CO4 CO5 6.01	
28	15EC43	5.93	CO1 CO2 CO3 CO4 CO5 5.93	CO1 CO2 CO3 CO4 CO5 5.93	CO2 CO3 CO4 3.95										CO1 CO2 CO3 CO4 CO5 5.93	
29	15EC44	7.7	CO1 CO2 CO3 CO4 CO5 7.7	CO1 CO2 CO3 CO4 CO5 7.7			CO1 CO2 CO3 CO4 CO5 5.13								CO1 CO2 CO3 4.28	CO1 CO2 CO3 CO4 CO5 7.7
30	15EC45	8.71	CO1 CO2 CO3 CO4 CO5 5.23	CO1 CO2 CO3 CO4 CO5 8.13	CO1 CO2 CO5 8.71	CO3 CO4 7.26									CO1 CO2 CO3 8.71	CO1 CO2 CO3 CO4 CO5 8.71
31	15EC46	8.89	CO1 CO2 CO3 CO4 CO5 8.89	CO1 CO2 CO3 CO4 CO5 8.89			CO2 CO3 CO4 CO5 8.89				CO2 CO3 CO4 CO5 8.89			CO5 5.93	CO1 CO2 CO3 CO4 CO5 8.89	CO1 CO5 5.93

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
32	15ECL47	6.57	CO1 CO2 CO3 CO4 CO5 6.57	CO1 CO2 CO3 CO5 6.57			CO1 CO2 CO3 CO5 6.57				CO1 CO2 6.57	CO3 CO5 6.57			CO1 CO2 CO3 CO4 CO5 5.69	CO1 CO2 CO5 4.38
33	15ECL48	7.94	CO1 CO2 CO5 7.94	CO1 CO3 CO5 7.94	CO1 CO3 CO4 CO5 7.28	CO1 CO2 CO4 CO5 7.94		CO1 CO4 CO5 7.94			CO2 5.29				CO1 CO2 CO3 CO4 CO5 7.94	CO1 CO2 CO3 CO4 CO5 7.94
34	15EC35	2.11	CO1 CO2 CO3 CO4 CO5 1.41	CO1 CO2 CO3 CO4 CO5 1.41			CO4 CO5 0.7	CO3 0.7							CO1 CO2 CO3 CO4 CO5 1.41	CO3 0.7
35	15ES51	8.2	CO5 2.73	CO1 CO2 CO5 5.47	CO1 CO3 CO5 6.38	CO4 CO5 5.47	CO3 CO4 CO5 5.47	CO2 CO3 CO5 8.2	CO3 CO5 8.2	CO3 CO4 CO5 8.2	CO1 CO2 CO3 CO4 CO5 8.2	CO2 CO4 CO5 8.2	CO4 CO5 8.2	CO3 CO4 CO5 8.2	CO4 2.73	CO4 2.73
36	15EC751	4.77	CO1 CO2 CO3 CO4 CO5 4.77		CO1 CO2 CO3 CO4 CO5 4.77		CO1 CO2 3.98		CO3 CO4 3.18						CO1 CO2 CO3 CO4 CO5 4.77	
37	15EC52	8.97	CO1 CO2 CO3 CO4 CO5 8.97		CO1 CO2 CO3 CO4 CO5 5.38		CO1 CO2 CO3 CO4 CO5 8.97								CO1 CO2 CO3 CO4 CO5 8.97	CO1 CO2 CO3 CO4 CO5 8.97
38	15EC53	8.71	CO1 CO2 CO3 CO4 CO5 8.71	CO2 CO3 CO4 CO5 7.26			CO1 CO3 CO4 CO5 8.71								CO1 CO2 CO3 CO4 CO5 8.71	CO3 CO4 CO5 5.81
39	15EC553	5.16	CO1 CO2 CO3 CO4 CO5 3.44	CO1 CO2 CO3 CO4 CO5 3.44											CO1 CO2 CO3 CO4 CO5 3.44	
40	15EC54	8.97	CO1 CO2 CO3 CO4 CO5 8.97	CO1 CO2 CO3 CO4 CO5 7.77											CO4 CO5 2.99	CO1 CO2 CO3 CO4 CO5 6.58

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
41	15EC654	10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10											CO4 6.67	CO1 CO2 CO3 CO4 CO5 10
42	15ECL57	8.51	CO1 CO2 CO3 CO4 CO5 8.51	CO1 CO2 CO3 CO4 CO5 5.11			CO1 CO2 CO3 CO4 CO5 8.51					CO1 CO2 CO3 CO4 CO5 6.81			CO1 CO2 CO3 CO4 CO5 8.51	CO1 CO2 CO3 CO4 CO5 8.51
43	15ECL58	9.26	CO1 CO2 CO3 CO4 CO5 9.26	CO1 CO2 CO3 CO4 CO5 9.26			CO1 CO2 CO3 CO5 9.26				CO1 CO2 9.26	CO3 CO5 9.26			CO1 CO2 CO3 CO4 CO5 8.03	CO1 CO2 CO3 CO5 6.17
44	15EC61	8.24	CO1 CO2 CO3 CO4 CO5 8.24	CO1 CO2 CO3 CO4 CO5 6.59	CO1 CO3 6.87	CO2 CO4 CO5 7.32									CO1 CO2 CO3 CO4 CO5 7.69	CO1 CO2 CO3 CO4 CO5 8.24
45	15EC562	7.77	CO1 CO2 CO3 CO4 CO5 7.77	CO1 CO2 CO3 CO4 CO5 7.77			CO1 CO2 CO3 CO4 CO5 5.18								CO1 CO2 CO3 CO4 CO5 5.18	
46	15EC62	7.61	CO1 CO2 CO3 CO4 CO5 7.61	CO1 CO2 CO3 CO4 CO5 7.61			CO2 CO5 5.07								CO1 CO2 CO3 CO4 CO5 7.61	
47	15EC663	8.41	CO1 CO2 CO3 CO4 CO5 8.41	CO1 CO2 CO3 CO4 CO5 8.41											CO1 CO2 CO3 CO4 CO5 8.41	CO4 5.61
48	15EC63	6.61	CO1 CO2 CO3 CO4 CO5 6.61	CO1 CO2 CO3 CO4 CO5 6.61			CO1 CO2 4.41							CO5 2.2	CO1 CO2 CO3 CO4 CO5 6.61	
49	15EC64	6.61	CO1 CO2 CO3 CO4 CO5 6.61	CO1 CO2 CO3 CO4 CO5 6.61			CO1 CO2 CO3 CO5 6.61	CO3 2.2							CO2 CO3 CO4 2.94	CO1 CO2 CO3 CO4 CO5 6.61

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
50	15ECL67	8.46	CO1 CO2 CO3 CO4 CO5 8.46	CO1 CO2 CO3 CO5 8.46			CO1 CO2 CO5 8.46					CO4 CO5 8.46			CO1 CO2 CO3 CO5 8.46	CO1 CO2 CO5 5.64	
51	15ECL68	8.97	CO1 CO2 CO3 CO4 CO5 8.97			CO1 CO2 CO3 CO4 CO5 8.97	CO1 CO2 CO3 CO4 CO5 8.97					CO1 CO2 CO3 CO4 CO5 8.97				CO1 CO2 CO3 CO4 CO5 8.97	
52	15EC71	7.26	CO1 CO2 CO3 CO4 CO5 5.45	CO1 CO2 CO3 CO4 CO5 2.42			CO5 2.42									CO1 CO2 CO3 CO4 CO5 7.26	
53	15EC72	2.71	CO1 CO2 CO3 CO4 CO5 2.53	CO1 CO2 CO3 CO4 CO5 1.63											CO1 1.81	CO1 CO2 CO3 CO4 CO5 2.71	
54	15EC73	6.91	CO1 CO2 CO3 CO4 CO5 6.91	CO1 CO2 CO3 CO4 CO5 6.91	CO3 CO4 CO5 6.91	CO3 CO4 CO5 4.61	CO2 CO3 CO4 CO5 4.61								CO1 CO2 CO3 CO4 CO5 4.15		
55	15ECL76	9.89	CO1 CO2 CO3 CO4 CO5 9.89	CO1 CO2 CO3 CO4 CO5 7.91	CO1 CO2 CO3 CO4 CO5 8.24	CO1 CO2 CO3 CO4 CO5 9.89	CO1 CO2 CO3 CO4 CO5 5.77								CO1 CO2 CO3 CO4 CO5 9.89	CO1 CO2 CO3 CO4 CO5 9.89	
56	15ECL77	9.03	CO1 CO2 CO3 CO4 CO5 9.03	CO1 CO2 CO3 CO5 9.03			CO1 CO2 CO3 CO5 9.03					CO1 CO2 CO5 9.03	CO3 CO5 9.03			CO1 CO2 CO3 CO4 CO5 7.83	
57	15ECP78	10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	
58	15EC81	6.7	CO1 CO2 CO3 CO4 CO5 6.7	CO1 CO2 CO3 CO4 CO5 6.7											CO1 CO2 CO4 2.98	CO1 CO2 CO3 CO4 CO5 6.7	

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
59	15EC82	8.29	CO1 CO2 CO3 CO4 CO5 7.18	CO2 CO3 CO4 CO5 8.29											CO1 CO2 CO3 CO4 CO5 7.18	CO1 CO2 CO3 CO4 CO5 7.74
60	15EC84	10	CO1 CO5 10	CO1 CO5 10	CO1 CO5 10	CO1 CO5 10	CO1 CO4 CO5 10	CO1 CO2 CO3 CO4 10	CO1 10	CO1 CO2 CO3 CO4 10	CO1 CO2 CO3 CO4 10	CO1 CO2 CO3 CO4 10	CO1 CO2 CO3 CO4 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 7.33	CO1 CO2 CO3 CO4 CO5 7.33
61	15ECP85	10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10
62	15ECS86	10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 10



CANARA ENGINEERING COLLEGE

Benjanapadavu, Bantwal Taluk
Mangalore – 574219



Electronics and Communication Engineering Department

CO-PO FEEDBACK ANALYSIS AND ACTION TAKEN REPORT

ACADEMIC YEAR 2018-2019

POs	Target Level	Attainment Level	Observations	Action Taken
PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.				
PO1	6.7	5.92	<ul style="list-style-type: none">• Shortfall of 11.64% in the attainment level• Lower attainment is due to below average performance in VTU exam in the courses 15MAT31, 15EC33, 15EC741, 15EC42, 15EC43, 15ECL47, 15EC35, 15EC751, 15EC553, 15EC63, 15EC64 and 15EC72• Student feedback is low• Attainment level is satisfactory	Action 1: To strengthen the CO in 15EC33 more design-based problems by using more analogies with reference to the Laboratory course 15ECL38 are solved Action 2: To strengthen the CO in 15EC42 more design-based problems by using more analogies with reference to the Laboratory course 15ECL47 are solved
PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.				
PO2	6.4	5.53	<ul style="list-style-type: none">• Shortfall of 13.59% in the attainment level• Lower attainment is due to below average	Action 1: To strengthen the CO in 15EC42 more design-based problems by using more analogies

			<p>performance in VTU exam in the courses 15MAT31, 15EC33, 15EC835, 15EC741, 15EC42, 15EC35, 15ECL57, 15ES51, 15EC553, 15EC71 and 15EC72</p> <ul style="list-style-type: none"> • Student feedback is low • Attainment level is satisfactory 	<p>with reference to the Laboratory course 15ECL47 are solved</p> <p>Action 2: To attain outcome of course 15ES51 in topics on management and planning, organizing, staffing and directing activities in an organization are to be explained in much better detail and made to be appreciated well</p> <p>To attain outcome topics on ethics in business and family business and entrepreneurship and ideation setting up SSI and institutes to seek technical/ financial support are to be explained in more detail</p> <p>To attain outcome project management and project design are to be explained in detail</p> <p>Action 3: To strengthen the CO in 15EC61, more problems on various topics of different types are solved</p> <p>Action 4: To attain more higher outcome in 15EC72, students will be given with more practical examples</p> <p>To attain more higher outcome students will be given more assignments to practice derivation and problems</p>
<p>PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.</p>				


PO3	6.5	6.34	<ul style="list-style-type: none"> • Shortfall of 2.46% in the attainment level • Lower attainment is due to below average performance in VTU exam in the courses 15EC42, 15EC43 and 15EC751 • Student feedback is low • Attainment level is satisfactory 	Action 1: To strengthen the CO in 15EC42 more design-based problems by using more analogies with reference to the Laboratory course 15ECL47 are solved
PO4: <i>Conduct investigations of complex problems:</i> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.				
PO4	6.3	7.28	<ul style="list-style-type: none"> • Attained 15.55% higher than the target level • Higher attainment level is because of good performance of students in SEE and CIE • High contributing courses for attainment 15EC45, 15ECL48, 15ES51, 15EC61, 15EC64, 15ECL68, 15EC73, 15ECL76, 15ECP78, 15EC84, 15ECP85 and 15ECS86 • Attainment level is good 	Action 1: Target level for AY 2016-17 will be increased Action 2: Continuous efforts are made to achieve the new set target level
PO5: <i>Modern tool usage:</i> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.				
PO5	6.2	6.03	<ul style="list-style-type: none"> • Shortfall of 2.74% in the attainment level • Lower attainment is due to below average performance in VTU exam in the courses 15EC42, 15EC35 and 15EC751 • Attainment level is satisfactory 	Action 1: To strengthen the CO in 15EC42 more design-based problems by using more analogies with reference to the Laboratory course 15ECL47 are solved
PO6: <i>The engineer and society:</i> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.				
PO6	7.6	7.39	<ul style="list-style-type: none"> • Shortfall of 2.76% in the attainment level • Lower attainment is due to below average performance in VTU exam in the courses 15EC35 and 15EC64 	Action 1: Tutorial classes are conducted to strengthen the CO for 15EC35

			<ul style="list-style-type: none"> Attainment level is good 	<p>Action 2: To attain outcome working of topologies will be explained in labs</p> <p>It is recommended to maintain the course category as M-MODERATE</p>
<p>PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.</p>				
PO7	6.5	7.8	<ul style="list-style-type: none"> Attained 20% higher than the target level Higher attainment level is because of good performance of students in SEE and CIE High contributing courses for attainment 15ES51, 15EC84, 15ECP85 and 15ECS86 Attainment level is good 	<p>Action 1: To attain outcome of course 15ES51 in topics on management and planning, organizing, staffing and directing activities in an organization are to be explained in much better detail and made to be appreciated well</p> <p>To attain outcome topics on ethics in business and family business and entrepreneurship and ideation setting up SSI and institutes to seek technical/ financial support are to be explained in more detail</p> <p>To attain outcome project management and project design are to be explained in detail</p> <p>Action 2: Activities/talks other than the curriculum was initiated and suggest students to take up more research/self-learning in Projects and seminar, pertaining to sustainable development</p>
<p>PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</p>				
PO8	8.1	7.67	<ul style="list-style-type: none"> Shortfall of 5.3% in the attainment level Student feedback is low 	<p>Action 1: Conduction of sessional in Theory/Labs in conformance to strict and uniform practices</p>

			<ul style="list-style-type: none"> Attainment level is good 	<p>taking care to note deviations from ethical practices under the review of the disciplinary committee</p> <p>Action 2: Students need to be made aware of Lapses/misbehavior/unethical practices by an interaction after which they acknowledge it openly and apologize for it</p> <p>Action 3: Students are encouraged to take a serious note of giving due credence to original contributors in their thesis in Projects/seminar</p> <p>Action 4: College calendar makes note of ethical practices for a student which is further crystallized in the college prayer</p>
PO9: Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.				
PO9	7.5	7.1	<ul style="list-style-type: none"> Shortfall of 5.33% in the attainment level Lower attainment is due to below average performance in VTU exam in the course 15ECL47 Attainment level is good 	Action 1: Mini projects and major projects were initiated to strengthen the CO attainment
PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.				
PO10	7.7	6.99	<ul style="list-style-type: none"> Shortfall of 9.22% in the attainment level Lower attainment is due to below average performance in VTU exam in the course 15ECL47 Attainment level is satisfactory 	Action 1: To concentrate more on Report writing for the activities – Project work, Seminars and Industrial Training

				Action 2: To strengthen the CO in 15ECL47 more programs are been done in the Laboratory
PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.				
PO11	7.5	8.27	<ul style="list-style-type: none"> • Attained 10.26% higher than the target level • Higher attainment level is because of good performance of students in SEE and CIE • High contributing courses for attainment 15ES51, 15EC84, 15ECP85 and 15ECS86 • Attainment level is very good 	Action 1: To strengthen CO, advised to concentrate more on Project work, Mini Projects and Seminars
PO12: Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.				
PO12	6.2	6.08	<ul style="list-style-type: none"> • Shortfall of 2.25% in the attainment level • Attainment level is satisfactory 	Action 1: To strengthen CO, advised to concentrate more on Project work, Mini Projects and Seminars
PSO1: Capability to assess and solve mechanical and interdisciplinary engineering problems to meet needs of the society				
PSO1	6.6	6.08	<ul style="list-style-type: none"> • Shortfall of 7.87% in the attainment level • Lower attainment is due to below average performance in VTU exam in the course 15MAT31, 15EC33, 15EC36, 15MAT41, 15EC741, 15EC42, 15EC43, 15EC44, 15ECL47, 15EC35, 15EC751, 15ES51, 15EC553, 15EC54, 15EC562, 15EC64, 15EC72, 15EC73 and 15EC81 • Attainment level is satisfactory 	Action 1: To improve attainment, conduction of more Technical activities and to Emphasize on Mini Projects and Projects were initiated
PSO2: Possesses adequate interpersonal skills to solve managerial and technical issues.				

PSO2	6.6	5.87	<ul style="list-style-type: none"> • Shortfall of 11.06% in the attainment level • Lower attainment is due to below average performance in VTU exam in the course 15EC32, 15EC835, 15EC36, 15EC34, 15EC46, 15ECL47, 15EC35, 15ES51, 15EC53, 15EC54, 15ECL58, 15EC663, 15ECL67 and 15EC72 • Attainment level is satisfactory 	Action 1: To improve attainment, conduction of more Technical activities and to Emphasize on Mini Projects and Projects were initiated
------	-----	------	--	---


 Signature of HOD


 Signature of Principal