



CANARA ENGINEERING COLLEGE

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

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Feedback on Learning Outcomes - Department of CSE

Sample Feedback forms - Pg. No. 2

Feedback Analysis - Pg. No. 9



Advanced Attendance option is available for VI Semester Students till 23rd July 2022. Student edit option is available for TG. Datewise Attend

Criteria-7 CO PO Report

Admission Year: ▼

Select Branch: ▼

CO PO Report-2017-2018 Computer Science & Engineering

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
1	17MAT11	5.63	C01 C02 C03 C04 C05 5.63	C01 C02 C03 C04 C05 4.88														
2	17PHY12	4.51	C01 C02 C03 C04 C05 4.51	C01 C02 C03 C04 C05 3.01														
3	17CIV13	4.3	C01 C02 C03 C04 C05 3.73	C01 C02 C03 C04 C05 3.73														
4	17EME14	5.89	C01 C02 C03 C04 C05 5.89	C02 C03 3.93					C01 C04 3.93				C01 C02 C03 C04 C05 3.93					
5	17WSL16	5.71	C01 C02 C03 C04 C05 3.81								C01 C02 C03 C04 C05 3.81	C01 C02 C03 C04 C05 3.81						

Sl. No.	Course Code	CO Attainment 10 Scale	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2 PSO3 PSO4																
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	
6	17PHYL17	10	CO1 CO2 CO3 CO4 CO5 10	CO1 CO2 CO3 CO4 CO5 6.67									CO1 CO2 CO3 CO4 CO5 6.67						
7	17MAT21	5.03	CO1 CO2 CO3 CO4 CO5 5.03	CO1 CO2 CO3 CO4 CO5 4.36															
8	17CHE22	5.54	CO1 CO2 CO3 CO4 CO5 3.69	CO1 CO3 CO4 CO5 3.69															
9	17PCD23	2.47	CO1 CO2 CO3 CO4 CO5 1.65	CO1 CO2 CO3 CO4 CO5 1.65				CO5 1.65											
10	17CED24	8.69	CO1 CO2 CO3 CO4 CO5 8.69		CO1 CO2 CO3 CO4 CO5 5.79			CO3 CO4 CO5 8.69						CO1 CO2 CO3 CO4 CO5 2.9					
11	17ELN25	2.73	CO1 CO2 CO3 CO4 CO5 2.37	CO1 CO2 CO3 CO4 CO5 1.82															
12	17CPL26	9.03	CO1 CO2 CO3 CO4 CO5 7.83	CO1 CO2 CO3 CO4 CO5 7.83									CO1 CO3 CO5 8.03						
13	17CHEL27	8.69	CO1 CO2 CO3 CO4 CO5 5.79	CO1 CO2 CO3 CO4 CO5 5.79									CO3 CO4 CO5 5.79						
14	17CIV28	4.79						CO1 CO2 CO3 CO4 CO5 3.19	CO1 CO2 CO3 CO4 CO5 3.19	CO1 CO2 CO3 CO4 CO5 3.19				CO1 CO2 CO3 CO4 CO5 3.19					
15	17MAT31	9.83	CO1 CO2 CO3 CO4 CO5 9.17	CO3 CO4 CO5 7.65															

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	
16	17CS32	8.59	C01 C02 C03 C04 C05 5.73		C01 C02 C03 C04 C05 5.73										C01 C02 C03 C04 C05 5.73				
17	17CS33	9.57	C01 C02 C03 C04 C05 7.02	C01 C02 C03 C04 C05 7.02	C01 C02 C03 C04 C05 8.29													C01 C02 C03 C04 C05 9.57	
18	17CS34	8.89	C01 C02 C03 C04 C05 8.89		C02 C03 8.89										C01 C02 C03 C04 C05 8.89				
19	17CS834	3.87	C01 C02 C03 C04 C05 2.84	C01 C02 C03 C04 C05 3.61	C02 C03 C04 C05 2.9	C01 C05 1.29												C01 C02 C03 C04 C05 2.58	
20	17CS36	9.49	C01 C02 C03 C04 C05 9.49	C01 C02 C03 C04 C05 9.49	C01 C02 C03 C04 C05 6.33									C01 C02 C03 C04 C05 6.33				C01 C02 C03 C04 C05 9.49	
21	17CSL37	7.71	C01 C03 7.71	C01 C02 C04 5.14	C01 C02 C04 5.14	C02 C05 3.86	C01 C03 C05 3.43					C01 C02 2.57			C04 C05 2.57				
22	17CSL38	9.54	C01 C02 C03 C04 C05 6.36	C01 C02 C03 C04 C05 9.54	C01 C02 C03 C04 C05 9.54							C03 6.36						C01 C02 C03 C04 C05 6.36	
23	17KL39	3.5										C01 C02 C03 3.5		C01 C02 C03 3.5					
24	17KL39	3.5										C01 C02 C03 3.5		C01 C02 C03 3.5					
25	17MAT41	9.74	C01 C02 C03 C04 C05 9.74	C01 C02 C03 C04 C05 7.79															
26	17CS42	10			C01 C02 C03 C04 C05 10		C01 C02 C03 C04 C05 6.67								C03 C04 C05 3.33			C01 C02 C03 C04 C05 6.67	C01 C02 C03 C04 C05 6.67

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
27	17CS742	10	C01 C02 C03 C04 C05 6.67	C01 C03 C04 8.89	C05 10	C02 C03 C04 10	C01 C03 8.33									C01 C02 C03 C04 C05 6.67		C01 C02 C03 C04 C05 6.67
28	17CS43	3.83	C01 C02 C03 C04 C05 3.83	C01 C02 C03 C04 C05 2.55	C02 C03 C04 C05 2.55									C05 3.83	C01 2.55		C02 C03 C04 C05 2.55	C02 C03 C04 2.55
29	17CS44	9.74	C02 C03 C05 6.49	C02 C03 C05 6.49	C02 C03 C05 6.49	C03 C05 6.49	C03 C05 6.49								C01 C05 9.74	C01 6.49	C02 C03 C05 5.41	C01 C03 C04 5.41
30	17CS45	9.23	C01 C02 C03 C04 C05 3.08	C03 6.15	C01 C02 C03 C05 6.92		C04 6.15						C04 9.23	C01 C04 6.15			C01 C02 C03 C04 C05 6.15	C01 C02 C03 C04 C05 6.15
31	17CS46	9.31	C01 C02 9.31	C01 C02 C03 C04 C05 6.21			C05 3.1									C01 C02 C03 C04 C05 9.31		
32	17CSL47	7.54	C01 C02 C05 6.7	C03 C05 5.03	C01 C02 C05 6.7		C01 5.03					C03 C04 2.51			C01 C05 5.03		C01 C03 C05 4.19	
33	17CSL48	5.89	C01 C02 3.93	C01 3.93	C01 3.93		C01 C02 C03 C04 3.93					C01 C02 4.91	C01 5.89	C01 C02 C03 C04 1.96	C01 C05 4.91	C01 1.96	C04 1.96	C01 C02 C03 C04 1.96
34	17CPH49	2.39						C01 C02 C03 C04 C05 2.39		C01 C02 C03 C04 C05 2.39					C01 C02 C03 C04 C05 2.39			
35	17CS51	8.93											C01 C02 C03 C04 C05 8.93	C04 C05 5.95				
36	17CS651	10	C01 C02 C03 C04 C05 3.33	C02 C03 C04 C05 6.67													C02 C03 C04 C05 6.67	
37	17CS52	5.97	C01 C02 C03 C04 C05 4.78		C03 3.98									C05 3.98		C01 C02 C03 C04 C05 3.98		

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	
38	17CS53	9.1	CO2 3.03	CO2 3.03	CO1 CO2 CO3 CO4 CO5 6.67												CO1 CO2 CO3 CO4 CO5 7.89		
39	17CS553	9.63	CO1 CO2 CO3 CO4 CO5 6.42	CO1 CO2 CO3 CO4 CO5 9.63	CO1 CO3 CO4 CO5 9.63	CO2 9.63	CO1 CO2 CO3 CO4 CO5 9.63							CO4 CO5 9.63		CO1 CO2 CO3 CO4 CO5 9.63	CO1 CO2 CO3 CO4 CO5 9.63		
40	17CS54	9.74	CO1 CO2 CO3 CO4 CO5 9.09	CO1 CO2 CO3 CO4 CO5 9.09	CO1 CO2 CO3 CO4 6.49												CO1 CO2 CO3 CO4 CO5 9.09		
41	17CS754	10			CO1 CO2 CO3 CO4 CO5 6		CO1 CO2 CO3 CO4 CO5 10							CO1 CO2 CO3 CO4 CO5 6.67	CO1 CO2 CO3 CO4 CO5 7.33	CO1 CO2 CO3 CO4 CO5 6.67			
42	17CSL57	10	CO1 CO2 CO3 CO4 CO5 CO1 CO2 CO3 CO4 CO5 8	CO2 CO2 10	CO1 CO1 10		CO1 CO2 CO1 CO2 10							CO1 CO2 CO3 CO1 CO2 CO3 6.67		CO1 CO2 CO3 CO1 CO2 CO3 8.89		CO1 CO2 CO1 CO2 6.67	
43	17CSL58	7.71	CO1 CO2 CO4 5.14	CO1 CO2 CO4 6.85	CO4 7.71	CO3 2.57	CO3 CO4 7.71	CO4 2.57		CO4 5.14		CO5 7.71	CO4 2.57						CO1 CO3 7.71
44	17CS61	10	CO1 CO2 CO3 CO4 CO5 CO1 CO2 CO3 CO4 CO5 6.67	CO1 CO2 CO3 CO4 CO5 CO1 CO2 CO3 CO4 CO5 6.67	CO2 CO2 10	CO1 CO2 CO3 CO4 CO5 CO1 CO2 CO3 CO4 CO5 8		CO1 CO3 CO4 CO5 CO1 CO3 CO4 CO5 7.5	CO4 CO4 6.67								CO4 CO5 CO4 CO5 6.67	CO1 CO2 CO3 CO4 CO1 CO2 CO3 CO4 7.5	
45	17CS62	10	CO1 CO2 CO3 CO4 6.67			CO3 CO4 6.67	CO1 CO2 CO3 CO5 10												CO1 CO2 CO3 6.67
46	17CS63	10	CO1 CO2 CO3 CO4 CO5 10	CO3 CO4 CO5 6.67	CO1 CO2 CO3 CO4 CO5 6.67		CO4 6.67							CO1 CO2 CO3 CO4 CO5 6.67	CO1 CO2 CO3 CO4 CO5 10		CO1 CO2 CO3 CO4 CO5 6.67		

Sl. No.	Course Code	CO Attainment 10 Scale	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	
47	17CS64	10	CO1 CO2 CO3 CO4 CO5 8	CO2 CO3 CO4 CO5 9.17	CO2 3.33										CO1 3.33		CO2 CO3 CO4 CO5 3.33		
48	17CS664	10	CO1 CO2 6.67	CO1 CO2 CO3 CO4 CO5 6.67		CO3 CO4 CO5 6.67												CO3 CO4 CO5 10	
49	17CS564	9.74	CO1 CO2 CO3 CO4 CO5 6.49		CO1 CO2 CO3 CO4 CO5 9.74		CO1 9.74											CO1 CO2 CO3 CO4 CO5 6.49	
50	17CSL67	9.14		CO1 CO2 CO3 CO4 CO5 6.09		CO1 CO2 CO3 CO4 CO5 9.14	CO1 CO2 CO3 CO4 CO5 9.14								CO1 CO2 CO3 CO4 CO5 6.09		CO1 CO2 CO3 CO4 CO5 6.09		
51	17CSL68	8.29	CO1 CO2 CO3 CO4 CO5 8.29				CO1 CO2 CO3 CO4 CO5 8.29				CO2 CO4 CO5 8.29	CO3 CO5 8.29			CO1 CO2 CO3 CO4 CO5 5.53				
52	17CS71	8.29			CO1 CO2 CO3 CO4 CO5 8.29		CO1 CO2 CO3 CO4 CO5 4.97							CO1 CO2 CO3 CO4 CO5 3.32		CO1 CO2 CO3 CO4 CO5 8.29		CO1 CO2 CO3 CO4 CO5 7.18	
53	17CS72	10	CO1 CO2 CO3 CO4 CO5 8	CO1 CO2 CO3 CO4 CO5 8.67	CO5 6.67										CO1 CO2 CO3 CO4 CO5 10				
54	17CS73	6.57	CO1 6.57	CO1 CO2 CO3 CO4 CO5 6.57	CO2 CO3 CO4 CO5 6.02	CO3 CO4 4.38	CO5 4.38								CO1 4.38		CO1 CO2 CO3 CO4 CO5 5.26	CO2 CO3 CO4 CO5 4.38	
55	17CSL76	10	CO1 10	CO1 CO2 10	CO1 10	CO4 10	CO5 10				CO5 10	CO3 CO5 10						CO1 CO2 CO3 CO4 CO5 10	
56	17CSL77	10	CO3 6.67	CO1 6.67	CO5 10	CO2 10	CO3 10			CO4 CO5 6.67		CO4 CO5 10			CO1 CO2 CO3 CO4 CO5 6.67				

Sl. No.	Course Code	CO Attainment 10 Scale	CO Attainment																
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	
57	17CSP78	10	C01 C02 6.67	C01 C02 10	C01 C02 C03 8.33	C01 C02 C03 C05 9.17	C01 C02 C03 10	C01 C02 C03 8.89	C01 C02 C03 6.67	C03 10	C01 C03 10	C03 C04 C05 8.89	C03 6.67	C01 C02 C03 C04 10	C01 C02 C03 C04 C05 10	C01 C02 C03 C04 C05 10			
58	17CS81	8.29			C01 C02 8.29	C03 C04 8.29	C05 8.29		C01 5.53							C01 C02 C03 C04 C05 8.29			
59	17CS82	9.83	C01 C02 C03 C04 C05 9.83	C03 C04 C05 9.83	C01 C02 9.83	C01 C02 9.83	C01 C02 9.83							C01 C02 C03 C04 C05 9.83			C01 C02 C03 C04 C05 9.83		
60	17CS84	4.86	C01 C02 C03 C04 4.86	C01 C02 C03 C04 4.86	C01 C03 4.86	C01 C03 4.86	C01 C02 C03 C04 4.86	C01 C02 C03 C04 3.24	C01 C02 C03 C04 3.24	C01 C02 C03 C04 3.24	C01 C02 C03 C04 4.86	C01 C02 C03 C04 4.05	C01 C02 C03 C04 3.24	C01 C02 C03 C04 1.62	C01 C02 C03 C04 3.24	C01 C02 C03 C04 4.86	C01 C02 C03 C04 3.24	C01 C02 C03 C04 3.24	
61	17CSP85	8.29	C01 C02 5.53	C01 C02 8.29	C01 C02 C04 7.37	C01 C02 C03 C04 7.6	C01 C02 C03 8.29	C01 C02 C03 7.37	C01 5.53	C03 8.29	C01 C03 8.29	C03 5.53	C03 5.53	C01 C02 C03 C04 C05 8.29	C01 C02 C03 C04 C05 8.29	C01 C02 C03 C04 C05 8.29	C01 C02 C03 5.53	C01 C02 C03 5.53	
62	17CSS86	6.57	C01 C02 C03 C04 C05 6.57	C03 C04 C05 4.38	C01 C02 C03 C04 C05 4.38		C04 4.38							C01 C02 C03 C04 C05 4.38	C01 C02 C03 C04 C05 6.57		C01 C02 C03 C04 C05 4.38		



CANARA ENGINEERING COLLEGE

Benjanapadavu, Bantwal Taluk
Mangalore – 574219



Computer Science and Engineering Department

CO-PO FEEDBACK ANALYSIS AND ACTION TAKEN REPORT

ACADEMIC YEAR 2020-2021

POs	Target Level	Attainment Level	Observations	Action Taken
PO 1: Engineering Knowledge				
PO 1	6.97	6.5	There is 6.74% of shortfall in attaining PO against the target level. This is due to the low CO contribution from the following courses: 17CS834, 17CS43, 17CSL48, 17CS52, 17CS73.	Action 1: The course instructor(17CS834) has conducted additional sessions on advanced statistical modelling. Action 2: The course instructor(17CS43) has conducted additional sessions on Parallel Programming- Open MP. the courses: 17CS834,17CS43,17CSL48,17CS52,17CS73 Action 3: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools. Action 4: The course instructor(17CS52) has conducted additional sessions on IPV4 addressing scheme and VOIP: Voice Over Internet Protocol.

				<p>Action 5: The course instructor(17CS73) has conducted additional sessions on The Basics of Probability and Statistics</p> <p>Action 6: Tutorial and additional lecture hour has been conducted for all the courses having low CO attainments.</p>
PO 2: Problem Analysis				
PO 2	7.18	7.05	1.67% of shortfall in attaining PO against the target level. This is due to low CO contribution from the courses: 17CS834,17CS43,17CS48,17CS73	<p>Action 1: The course instructor(17CS834) has conducted additional sessions on advanced statistical modelling.</p> <p>Action 2: The course instructor(17CS43) has conducted additional sessions on Parallel Programming- Open MP.</p> <p>Action 3: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools.</p> <p>Action 4: The course instructor(17CS73) has conducted additional sessions on The Basics of Probability and Statistics</p> <p>Action 5: Tutorial and additional lecture hour has been conducted for all the courses having low CO attainments.</p> <p>Action 6: Technical talk/Lecture has been arranged on recent advancements towards problem analysis.</p>
PO 3: Design/Development of Solutions				
PO 3	7.84	6.69	14.55% of shortfall in attaining PO against the target level. This is due to low CO contribution from the	Action 1: The course instructor(17CS834) has conducted additional sessions on advanced statistical modelling

			<p>courses: 17CS834,17CS43,17CSL48,17CS52,17CS73,17CS L58</p>	<p>Action 2: The course instructor(17CS43) has conducted additional sessions on Parallel Programming- Open MP Action 3: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools. Action 4: The course instructor(17CS52) has conducted additional sessions on IPV4 addressing scheme and VOIP: Voice Over Internet Protocol. Action 5: The course instructor(17CS73) has conducted additional sessions on The Basics of Probability and Statistics Action 6: The course instructor(17CSL58) has conducted additional sessions on demonstration on database connectivity using PHP. Action 7: Tutorial and additional lecture hour has been conducted for all the courses having low CO attainments. Action 8: Hands on workshop has been arranged to improve the skills on software design and development.</p>
PO 4: Conduct investigation of complex problems				
PO 4	7.81	7.24	<p>7.17% of shortfall in attaining PO against the target level. This is due to low CO contribution from the courses: 17CS834,17CSL58, 17CS73</p>	<p>Action 1: The course instructor(17CS834) has conducted additional sessions on advanced statistical modelling. Action 2: The course instructor(17CS73) has conducted additional sessions on the Basics of Probability and Statistics Action 3: The course instructor(17CSL58) has conducted additional sessions on demonstration on database connectivity using PHP.</p>

				<p>Action 4: Tutorial and additional lecture hour has been conducted for all the courses having low CO attainments.</p> <p>Action 5: Technical talk/Lecture has been arranged on recent advancements towards problem analysis.</p>
PO 5: Modern tool usage				
PO 5	7.64	6.54	14.28% of shortfall in attaining PO against the target level. This is due to low CO contribution from the courses:17CSL48,17CS73	<p>Action 1: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools.</p> <p>Action 2: The course instructor(17CS73) has conducted additional sessions on the Basics of Probability and Statistics</p> <p>Action 3: Tutorial and additional lecture hour has been conducted for the courses having low CO attainments.</p>
PO 6: The engineer and society				
PO 6	7.50	6.01	19.86% of shortfall in attaining PO against the target level. This is due to low CO contribution from the courses: 17CS84	Action 1: Additional Training has been conducted on Current IT Technology.
PO 7: Environment and Sustainability				
PO 7	7.78	5.31	31.66% of shortfall in attaining PO against the target level. This is due to low CO contribution from the courses: 17CS84	<p>Action 1: Additional Training has been conducted on Current IT Technology.</p> <p>Action 2: Signed MOU with Qspider.</p>
PO 8: Ethics				
PO 8	7.09	5.16	27.32% of shortfall in attaining PO against the target level. This is due to low CO contribution from the courses: 17CS84	<p>Action 1: Additional Training has been conducted on Current IT Technology.</p> <p>Action 2: Signed MOU with Qspider.</p>

PO 9: Individual and Team work				
PO 9	8.29	6.49	21.80% of shortfall in attaining PO against the target level. This is due to low contribution from indirect assessments and courses: 17CS37,17CSL48	<p>Action 1: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools.</p> <p>Action 2: Measures will be taken to ensure more participation from the stakeholders.</p> <p>Action 3: Encouraging the students to participate in group activities such as paper presentation and technical events.</p> <p>Action 4: Encouraging the students to take part in team based technical activities like quiz and designing competitions.</p> <p>Action 5: Tutorial and additional lecture hour has been conducted for the courses having low CO attainments.</p>
PO 10: Communication				
PO 10	8.32	5.83	30.01% of shortfall in attaining PO against the target level. This is due to low CO contribution from the courses: 17CSL58	<p>Action 1: The course instructor(17CSL58) has conducted additional sessions on demonstration on database connectivity using php.</p> <p>Action 2: Tutorial and additional lecture hour has been conducted for the courses having low CO attainment</p> <p>Action 3: To improve the individual and group communications soft skill activities has been arranged.</p> <p>Action 4: Hands on workshop has been arranged to improve the skills on report and design documentation.</p>
PO 11: Project management and finance				


PO 11	7.05	6.43	8.53% of shortfall in attaining PO against the target level. This is due to low CO contribution from the courses: 17CSL48	Action 1: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools. Action 2: Tutorial and additional lecture hour has been conducted to the courses having low CO attainments.
PO 12: Life Long Learning				
PO 12	6.12	5.52	9.80% of shortfall in attaining PO against the target level. This is due to low CO contribution from the courses: 17CS43,17CSL48,17CS52	Action 1: The course instructor(17CS43) has conducted additional sessions on Parallel Programming- Open MP Action 2: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools. Action 3: The course instructor(17CS52) has conducted additional sessions on IPV4 addressing scheme and VOIP: Voice Over Internet Protocol. Action 4: Tutorial and additional lecture hour has been conducted to the courses having low CO attainments. Action 5: Technical talk/Lecture has been arranged on recent advancements towards lifelong learning.
PSO 1: Computer System Design				
PSO 1	7.13	6.64	6.87% of shortfall in attaining PSO against the target level. This is due to low CO contribution from the courses: 17CS43,17CSL48,17CS73	Action 1: The course instructor(17CS43) has conducted additional sessions on Parallel Programming- Open MP Action 2: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools. Action 3: The course instructor(17CS73) has conducted additional sessions on the Basics of Probability and Statistics

				Action 4: Tutorial and additional lecture hour has been conducted to the courses having low CO attainments.
PSO 2: Computer Communication and Internet Applications				
PSO 2	7.94	7.01	11.60% of shortfall in attaining PSO against the target level. This is due to low CO contribution from the courses:17CSL48,17CS52	<p>Action 1: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools.</p> <p>Action 2: The course instructor(17CS52) has conducted additional sessions on IPV4 addressing scheme and VOIP: Voice Over Internet Protocol.</p> <p>Action 3: Tutorial and additional lecture hour has been conducted to the courses having low CO attainments.</p> <p>Action 4: Hands on workshop has been arranged to improve the skills from communication protocols.</p>
PSO 3: Solve Computational Problems				
PSO 3	7.38	5.77	21.70% of shortfall in attaining PSO against the target level. This is due to low CO contribution from the courses: 17CS834,17CS43,17CSL48,17CS73	<p>Action 1: The course instructor(17CS834) has conducted additional sessions on advanced statistical modelling.</p> <p>Action 2: The course instructor(17CS43) has conducted additional sessions on Parallel Programming- Open MP</p> <p>Action 3: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools.</p> <p>Action 4: The course instructor(17CS73) has conducted additional sessions on the Basics of Probability and Statistics</p>

				Action 5: Tutorial and additional lecture hour has been conducted to the courses having low CO attainments.
PSO 4: Software System Design and Development				
PSO 4	7.29	4.2	42.46% of shortfall in attaining PSO against the target level. This is due to low CO contribution from the courses: 17CS43,17CSL48,17CS73	<p>Action 1: The course instructor(17CS43) has conducted additional sessions on Parallel Programming- Open MP</p> <p>Action 2: The course instructor(17CSL48) has conducted additional sessions on Advanced Software tools.</p> <p>Action 3: The course instructor(17CS73) has conducted additional sessions on the Basics of Probability and Statistics</p> <p>Action 4: Tutorial and additional lecture hour has been conducted to the courses having low CO attainment.</p> <p>Action 5: Hands on workshop has been arranged to improve the skills on software design and development.</p>



Signature of HOD



Signature of Principal