



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur
Near Chitranagari, Kolhapur - 416013 (MS)
DTE INSTITUTE CODE : EN-6288
Tel.No.: (0231) 2638893, 2638894, Fax : 2636050
Web : <http://coekolhapur.bharativedyapeeth.edu> E-mail : coekolhapur@bharativedyapeeth.edu

FOUNDER & CHANCELLOR
Dr. Patangrao Kadam
M.A., LL. B., Ph. D.

PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: S Y	Semester III
Program: Computer Science and Engineering	PCC-CS302: Discrete Mathematics & Structures	

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4, CO6
Marks	30	30
Roll Number		
1	22	21
2	24	19
3	26	16
4	28	18
5	26	19
6	22	21
7	22	21
8	28	21
9	26	24
10	22	22
11	26	22
12	26	21
13	22	20
14	28	19
15	20	16
16	22	21
17	26	21
18	26	20
19	22	18
20	26	22
21	24	23
22	28	21
23	24	19
24	24	17
25	26	16
26	26	14
27	26	20
28	26	21

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4, CO6
Marks	30	30
Roll Number		
29	26	21
30	26	19
31	28	18
32	26	17
33	28	15
34	26	20
35	28	21
36	28	21
37	26	16
38	24	19
39	28	15
40	22	14
41	20	16
42	22	21
43	28	16
44	22	14
45	22	16
46	24	18
47	24	14
48	22	13
49	26	18
50	24	21
51	22	21
52	26	22
53	28	21
54	24	21
55	18	16
56	26	24



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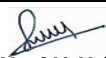
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PRINCIPAL
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M.E., Ph. D. (Computer)

ESE Result Analysis: Attainment of COs

Academic Year:2021-22					Class:SY		Semester III			
Program: Computer Science and Engineering					PCC-CS302: Discrete Mathematics &Structures					
Exam	ESE	OE/POE	TW		Exam	ESE	OE/POE	TW		
CO	CO1, CO2, CO3, CO4,CO5,CO6				CO	CO1, CO2, CO3, CO4,CO5,CO6				
Marks	70	NA	25		Marks	70	NA	25		
PRN					PRN					
2020074834	45	NA	24		2019076541	48	NA	21		
2019076789	45	NA	23		2019076562	42	NA	21		
2020074835	50	NA	20		2018087079	53	NA	24		
2020074813	53	NA	21		2020074823	50	NA	23		
2019087947	50	NA	22		2019076569	53	NA	21		
2019076552	48	NA	20		2018087126	39	NA	21		
2020074811	48	NA	21		2020075111	53	NA	21		
2019076471	53	NA	24		2019076587	53	NA	23		
2019076556	48	NA	22		2019076579	53	NA	23		
2019076575	42	NA	21		2019087948	39	NA	23		
2020074830	39	NA	21		2020074825	53	NA	21		
2018087115	39	NA	23		2019076559	42	NA	21		
2020074819	45	NA	22		2019076585	39	NA	23		
2019076570	53	NA	22		2018087033	34	NA	23		
2019081154	48	NA	21		2020074821	42	NA	21		
2019076571	42	NA	21		2019081152	48	NA	21		
2019076564	50	NA	24		2018087117	42	NA	21		
2020074827	45	NA	23		2018087088	39	NA	21		
2019076543	42	NA	20		2019076546	48	NA	21		
2019076547	39	NA	21		2019076558	50	NA	21		
2020074826	48	NA	22		2019076560	48	NA	21		
2020074831	50	NA	24		2018087034	45	NA	22		
2020074820	59	NA	18		2019076578	39	NA	21		
2019076545	36	NA	15		2019076565	50	NA	22		
2019076549	39	NA	22		2020074829	42	NA	21		
2020074810	42	NA	21		2020074836	48	NA	21		
2019076561	45	NA	23		2019076583	36	NA	19		
2019076542	53	NA	22		2019076586	42	NA	20		

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4,CO5,CO6		
Marks	70	NA	25
PRN			
2019076554	39	NA	21
2019076550	48	NA	22
2019076538	53	NA	23
2020074816	42	NA	22
2019076567	36	NA	22
2020074824	45	NA	22
2019076572	50	NA	20
2019076590	48	NA	21
2019076589	50	NA	22
2019076576	48	NA	23
2019076574	53	NA	22
2019076566	48	NA	23
2018087059	39	NA	23
2019081149	48	NA	22
2020074815	48	NA	22
Exam	ESE		OE/POE
CO	CO1, CO2, CO3, CO4,CO5,CO6		
Marks	70	NA	25
Threshold %	40	NA	40
Threshold Marks	28	NA	10
No. of Students Above Threshold Marks	76	NA	76
Total No. of Students in Class	76		
CO Wise Average Percentage Attainment*	100.00	NA	100.00
Attainment Level**	3	NA	3
CO	Average Attainment Level**		
	ESE	OE/POE	TW
CO1	3	NA	3
CO2	3	NA	3
CO3	3	NA	3
CO4	3	NA	3
CO5	3	NA	3
CO6	3	NA	3
* Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3			
 Mr. P .A. Kharade Course Coordinator		 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal



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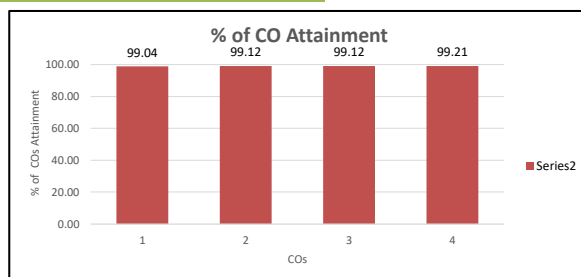
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PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

Attainment of COs

Program: Computer Science and Engineering		PCC-CS302: Discrete Mathematics & Structures				Class: Second Year	Semester III	Academic Year: 2021-22	
Sr. No.	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
	Weightage	CIE	ESE	OE/POE	TW	Attainment Level Weighted Average	(Course End Survey)		
CO1	Apply logic concepts in designing a program.	3	3	NA	3	3.00	2.86	2.97	99.04
CO2	Illustrate basic set concepts & apply operations onset.	3	3	NA	3	3.00	2.87	2.97	99.12
CO3	Minimize the Boolean Function.	3	3	NA	3	3.00	2.87	2.97	99.12
CO4	Apply basic concepts of probability to solve real world problem.	3	3	NA	3	3.00	2.88	2.98	99.21
CO5	Represent data structures using graph concepts.	3	3	NA	3	3.00	2.92	2.98	99.47
CO6	Design abstract machine, detect deadlocks	3	3	NA	3	3.00	2.97	2.99	99.82

Overall Attainment = $0.8 \times \text{Direct} + 0.2 \times \text{Indirect}$



 Mr. P. A. Kharade Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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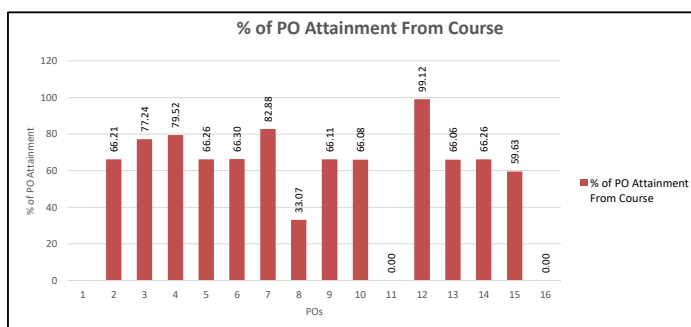
PRINCIPAL

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Attainment of POs

Program: Computer Science and Engineering	PCC-CS302: Discrete Mathematics & Structures	Class: Second Year	Semester III	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.97	2	1		1								2	2		
CO2	2.97	3	3	2	2	1							2	1	2	
CO3	2.97	1	3	2	2	2	2		2	2		3	2	1	1	
CO4	2.98	1	2	2	1	1	2	1	2					2	2	
CO5	2.98	3	3	3	3	3	3							3	2	
CO6	2.99	2	2	3	3	3	3							3	2	
CO-PO Attainment																
CO No.		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1.98	0.99			0.99								1.98	1.98		
CO2	2.97	2.97	1.98	1.98	0.99								1.98	0.99	1.98	
CO3	0.99	2.97	1.98	1.98	1.98	1.98	1.98		1.98	1.98		2.97	1.98	0.99	0.99	
CO4	0.99	1.98	1.98	0.99	0.99	1.98	0.99	1.98						1.98	1.98	
CO5	2.98	2.98	2.98	2.98	2.98	2.98	2.98							2.98	1.99	
CO6	2.00	2.00	2.99	2.99	2.99	2.99	2.99							2.99	2.00	
PO Attainment From Course	1.99	2.32	2.39	1.99	1.99	2.49	0.99	1.98	1.98	0.00	2.97	1.98	1.99	1.79	0.00	
% of PO Attainment From Course	66.21	77.24	79.52	66.26	66.30	82.88	33.07	66.11	66.08	0.00	99.12	66.06	66.26	59.63	0.00	



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COURSE EXIT SURVEY

Academic Year:2021-22	Class: S Y	Semester III
Program: CSE	PCC-CS302: Discrete Mathematics & Structures	

Name of Student: _____ Roll NO: _____

After the completion of the course PCC-CS302: Discrete Mathematics & Structures Do you think following outcomes are achieved. Then rate the achievement on point scale of (1 -3, 1: Lowest 3: Highest)

CO1 Q1. Apply logic concepts in designing a program.

Rate _____

CO2 Q2. Illustrate basic set concepts & apply operations on set.

Rate _____

CO3 Q3. Minimize the Boolean Function.

Rate _____

CO4 Q4. Apply basic concepts of probability to solve real world problem.

Rate _____

CO5 Q5. Represent data structures using graph concepts.

Rate _____

CO6 Q6. Design abstract machine, detect deadlocks

Rate _____

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

Faculty Sign

Academic Year:2021-22	Class: S Y	Semester III
Program: CSE	PCC-CS302: Discrete Mathematics &Structures	

Roll No	PRN	CO1	CO2	CO3	CO4	CO5	CO6
1	2020074834	2	3	3	3	3	3
2	2019076789	3	3	3	3	3	3
3	2020074835	3	3	3	3	3	3
4	2020074813	3	3	3	3	3	3
5	2019087947	3	3	3	3	3	3
6	2019076552	3	2	3	3	3	3
7	2020074811	3	3	3	3	3	3
8	2019076471	2	3	3	3	3	3
9	2019076556	3	3	3	3	3	3
10	2019076575	2	2	3	3	3	3
11	2020074830	3	3	3	2	2	3
12	2018087115	3	3	2	3	3	3
13	2020074819	3	2	3	3	3	3
14	2019076570	3	2	3	3	3	3
15	2019081154	3	3	3	3	3	3
16	2019076571	3	3	3	3	3	3
17	2019076564	3	3	3	3	3	3
18	2020074827	3	3	3	3	3	3
19	2019076543	3	3	3	3	3	3
20	2019076547	3	3	3	3	3	3
21	2020074826	3	3	3	3	3	3
22	2020074831	3	3	3	3	3	3
23	2020074820	3	3	2	3	3	3
24	2019076545	2	2	3	3	3	3
25	2019076549	3	3	3	3	3	3
26	2020074810	3	3	3	2	2	3
27	2019076561	3	3	3	3	3	3
28	2019076542	3	3	3	3	3	3
29	2019076541	3	3	3	2	2	2
30	2019076562	3	2	2	3	3	3
31	2018087079	2	3	3	3	3	3
32	2020074823	3	3	3	3	3	3
33	2019076569	3	3	3	3	3	3
34	2018087126	3	3	3	3	3	3
35	2020075111	3	3	3	2	2	3

36	2019076587	3	3	2	3	3	3
37	2019076579	3	3	3	3	3	3
38	2019087948	3	3	3	3	3	3
39	2020074825	3	3	3	3	3	3
40	2019076559	3	3	3	3	3	3
41	2019076585	3	3	2	3	3	3
42	2018087033	3	3	3	3	3	3
43	2020074821	3	3	3	3	3	3
44	2019081152	3	3	3	3	3	3
45	2018087117	3	3	3	3	3	3
46	2018087088	3	3	3	3	3	3
47	2019076546	3	3	3	3	3	3
48	2019076558	3	3	3	3	3	3
49	2019076560	3	3	3	1	3	3
50	2018087034	3	1	3	3	3	3
51	2019076578	3	3	3	3	3	3
52	2019076565	3	3	1	3	3	3
53	2020074829	3	3	3	3	3	3
54	2020074836	3	3	3	3	3	3
55	2019076583	3	3	3	3	3	3
56	2019076586	3	3	3	3	3	3
57	2019076550	3	3	2	2	3	3
58	2019076538	1	3	3	3	3	3
59	2020074816	3	3	3	3	3	3
60	2019076567	3	3	3	3	3	3
61	2020074824	3	3	3	3	3	2
62	2019076572	3	3	3	3	1	3
63	2019076590	3	3	3	3	3	3
64	2019076589	3	3	3	3	3	3
65	2019076576	3	3	3	3	3	3
66	2019076574	3	1	3	1	3	3
67	2019076566	3	3	3	3	3	3
68	2018087059	3	3	3	3	3	3
69	2019081149	1	3	3	3	3	3
70	2020074815	3	3	3	3	3	3
71	2018087181	3	3	3	3	3	3
72	2019074312	3	3	3	3	3	3
73	2019074312	3	3	2	3	3	3
74	2019074312	3	3	3	3	3	3
75	2019074312	2	3	2	3	3	3
76	2019074312	2	3	3	3	3	3
		217	218	218	219	222	226
		2.86	2.87	2.87	2.88	2.92	2.97
Average Indirect Attainment		2.89					



Faculty Sign



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CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	PCC-CS 303: Data Structures	

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
1	19	26
2	16	30
3	21	30
4	13	30
5	18	30
6	18	26
7	26	26
8	23	30
9	18	24
10	17	28
11	20	28
12	20	26
13	21	26
14	21	26
15	21	30
16	17	28
17	21	26
18	24	24
19	17	30
20	NA	NA
21	26	30
22	12	24
23	14	26
24	17	30
25	18	28
26	13	30
27	28	30
28	29	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
29	23	26
30	24	30
31	29	30
32	14	30
33	26	30
34	AB	24
35	19	30
36	23	30
37	16	30
38	24	30
39	21	30
40	12	30
41	24	30
42	20	30
43	26	30
44	20	30
45	30	30
46	29	28
47	22	28
48	18	30
49	23	30
50	21	26
51	21	30
52	18	30
53	25	30
54	19	30
55	AB	24
56	15	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
57	24	30
58	25	30
59	24	26
60	24	30
61	24	30
62	15	26
63	NA	NA
64	NA	NA
65	NA	NA
66	23	30
67	27	30
68	23	30
69	25	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
70	25	30
71	17	30
72	NA	NA
73	0	30
74	0	30
75	0	30
76	0	28
77	0	28
78	0	30
79	0	28
80	0	30
81	0	28

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Threshold %	60	
Threshold Marks	18	18
No. of Students Above Threshold Marks	51	76
Total No. of Students in Class	67	76
CO Wise Average Percentage Attainment*	76.12	100.00
Attainment Level**	3	3

CO	Average Attainment Level**	*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3
CO1	3	
CO2	3	
CO3	3	
CO4	3	

 Mrs. D. A. Alone Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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ESE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	PCC- CS303 : Data Structures	

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
PRN			
2020074038	53	NA	NA
2020073988	53	NA	NA
2020074138	56	NA	NA
2020074151	53	NA	NA
2020074493	48	NA	NA
2020074002	48	NA	NA
2020074511	53	NA	NA
2020073987	53	NA	NA
2021074081	56	NA	NA
2020074706	53	NA	NA
2020074508	56	NA	NA
2020074015	59	NA	NA
2020073992	53	NA	NA
2021074079	56	NA	NA
2020074058	53	NA	NA
2020074132	53	NA	NA
2020074516	56	NA	NA
2020074021	48	NA	NA
2020074500	50	NA	NA
2020074153	56	NA	NA
2020074128	53	NA	NA
2021074076	56	NA	NA
2020074517	53	NA	NA
2020074127	50	NA	NA
2020074029	56	NA	NA
2020074008	53	NA	NA
2021074074	59	NA	NA
2021074075	56	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
PRN			
2020074024	56	NA	NA
2020074502	50	NA	NA
2020073995	53	NA	NA
2021074084	56	NA	NA
2020073999	53	NA	NA
2020074156	50	NA	NA
2020074026	53	NA	NA
2020073982	53	NA	NA
2021074078	59	NA	NA
2020073990	53	NA	NA
2020074491	50	NA	NA
2020074507	50	NA	NA
2020073984	50	NA	NA
2020074040	50	NA	NA
2020074496	62	NA	NA
2020074498	56	NA	NA
2020074134	53	NA	NA
2020074056	53	NA	NA
2020074049	53	NA	NA
2020074133	53	NA	NA
2021074077	56	NA	NA
2020074139	59	NA	NA
2020074483	42	NA	NA
2020074018	59	NA	NA
2020074509	62	NA	NA
2020074033	56	NA	NA
2020074005	50	NA	NA
2020074146	56	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
PRN			
2020073978	56	NA	NA
2020074708	56	NA	NA
2021074080	56	NA	NA
2020073983	56	NA	NA
2020074044	53	NA	NA
2020073986	59	NA	NA
2020074149	59	NA	NA
2020074512	53	NA	NA
2020074144	56	NA	NA
2020074147	56	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
PRN			
2020074155	50	NA	NA
2020074707	56	NA	NA
2020074136	56	NA	NA
2020074130	56	NA	NA
2020074135	56	NA	NA
2020074121	59	NA	NA
2020074150	50	NA	NA
2020074075	53	NA	NA
2020074063	56	NA	NA
2020074060	56	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
Threshold %	75	NA	NA
Threshold Marks	52.5	NA	NA
No. of Students Above Threshold Marks	37	NA	NA
Total No. of Students in Class	61	NA	NA
CO Wise Average Percentage Attainment*	60.66	NA	NA
Attainment Level**	2	NA	NA

CO	Average Attainment Level**		
	ESE	OE/POE	TW
CO1	2	NA	NA
CO2	2	NA	NA
CO3	2	NA	NA
CO4	2	NA	NA

***Calculate CO wise Percentage Attainment Level Manually**

****Enter the level of Attainment as per Below Range**

0%- 33 % = 1

34%-66% =2

67%-100%=3

 Mrs. D. A. Alone Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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PRINCIPAL
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M.E., Ph. D. (Computer)

COURSE EXIT SURVEY

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	PCC- CS303 : Data Structures	

Name of Student: _____

Roll NO: _____

After the completion of the course PCC- CS303 : Data Structures Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Identify the appropriate data structure for specific application.

Rate _____

CO2 Q2. Give analysis of programming problem statements

Rate _____

CO3 Q3. Explain different sorting and searching algorithms.

Rate _____

CO4 Q4. Outline the solution to the given software problem with appropriate data structure.

Rate _____

CO	CO1	CO2	CO3	CO4
Rate Given				

Faculty Sign

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	PCC- CS303 : Data Structures	

Roll No	PRN	CO1	CO2	CO3	CO4
1	2020074038	2	3	2	3
2	2020073988	3	2	3	2
3	2020074138	1	3	2	3
4	2020074151	3	2	3	3
5	2020074493	2	2	2	3
6	2020074002	1	2	3	3
7	2020074511	3	2	3	1
8	2020073987	2	3	3	3
9	2021074081	3	3	3	1
10	2020074706	2	2	3	3
11	2020074508	3	1	3	2
12	2020074015	3	3	2	1
13	2020073992	3	2	3	3
14	2021074079	3	2	2	2
15	2020074058	2	1	3	2
16	2020074132	2	3	2	3
17	2020074516	3	3	2	2
18	2020074021	3	3	3	3
19	2020074500	2	2	3	2
20	2020074153	3	3	2	3
21	2020074128	3	2	3	2
22	2021074076	2	3	2	2
23	2020074517	3	3	2	2
24	2020074127	2	2	3	3
25	2020074029	3	2	2	2
26	2020074008	3	2	2	2
27	2021074074	3	2	2	2
28	2021074075	3	3	3	3
29	2020074024	3	3	3	2
30	2020074502	3	2	2	3
31	2020073995	2	3	3	3
32	2021074084	3	3	3	3
33	2020073999	3	3	3	3
34	2020074156	3	3	3	3
35	2020074026	3	3	3	2
36	2020073982	3	3	2	3
37	2021074078	3	3	3	3
38	2020073990	3	3	3	3
39	2020074491	3	3	3	1
40	2020074507	3	3	3	3
41	2020073984	3	3	2	3
42	2020074040	3	3	3	3
43	2020074496	3	3	3	2
44	2020074498	3	3	2	3
45	2020074134	3	3	3	3
46	2020074056	3	3	3	3
47	2020074049	3	3	3	3
48	2020074133	3	3	1	3
49	2021074077	3	3	1	3
50	2020074139	3	3	1	3
51	2020074483	3	3	1	3
52	2020074018	3	3	1	3
53	2020074509	3	2	3	3
54	2020074033	3	2	3	3

55	2020074005	3	1	3	3
56	2020074146	3	1	3	3
57	2020073978	2	2	2	2
58	2020074708	2	2	3	3
59	2021074080	2	2	3	3
60	2020073983	2	2	3	2
61	2020074044	2	2	3	2
62	2020073986	2	2	3	3
63	2020074149	2	1	3	2
64	2020074512	3	2	2	3
65	2020074144	3	2	2	2
66	2020074147	3	3	3	3
67	2020074155	3	3	1	3
68	2020074707	3	3	3	3
69	2020074136	2	3	2	3
70	2020074130	3	1	3	3
71	2020074135	2	2	2	2
72	2020074121	2	2	1	3
73	2020074150	3	3	3	3
74	2020074075	3	1	3	1
75	2020074063	3	2	3	2
76	2020074060	2	3	2	2
		203	186	191	195
		2.67	2.45	2.51	2.57
Average Indirect Attainment		2.55			


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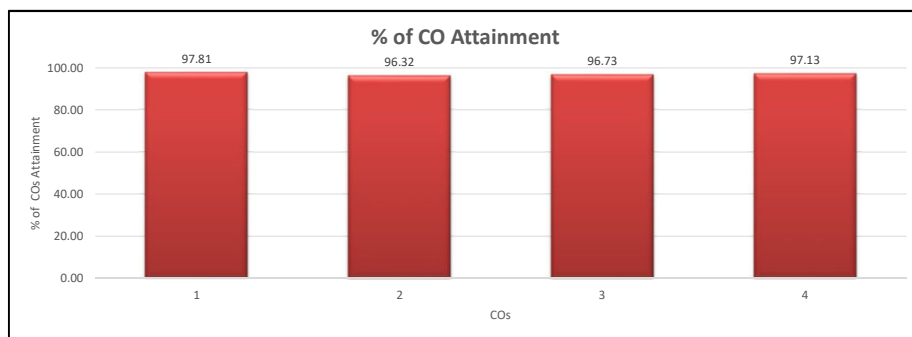
Dr. Vijay Ghorpade

M.E., Ph. D. (Computer)

Attainment of COs

Program: CSE		PCC- CS303 : Data Structures				Class: SY	Semester III	Academic Year: 2021-22	
SN	CO Statement	Direct Assessment				Attainment Level Weighted Average	Indirect Assessment (Course End Survey)	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW				
	Weightage	0.5	0.5	0	0				
CO1	Identify the appropriate data structure for specific application.	3	3	0	0	3.00	2.67	2.93	97.81
CO2	Design and analyze programming problem statements.	3	3	0	0	3.00	2.45	2.89	96.32
CO3	Chose appropriate sorting and searching algorithms	3	3	0	0	3.00	2.51	2.90	96.73
CO4	Outline the solution to the given software problem with appropriate	3	3	0	0	3.00	2.57	2.91	97.13

Overall Attainment=0.8*Direct+0.2*Indirect




Mrs. D. A. Alone
Course Coordinator


Mrs. S.M. Mulla
HoD


Dr. Vijay R. Ghorpade
Principal



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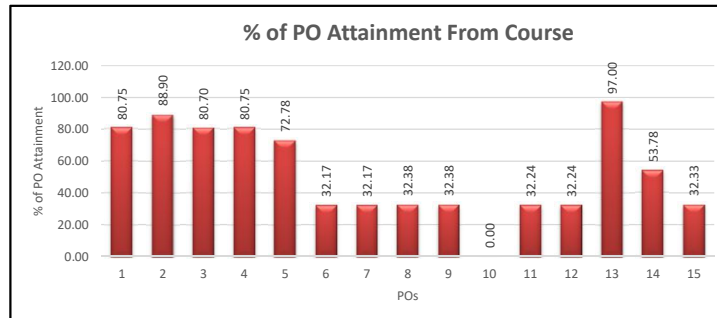
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Attainment of POs

Program: CSE	PCC- CS303 : Data Structures	Class: SY	Semester III	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.93	2	3	1	2	3								3		1
CO2	2.89	3	3	3	3	2	1	1				1	1	3	1	1
CO3	2.90	3	3	3	3	3	1	1				1		3	2	1
CO4	2.91	2	2	3	2	1			1	1		1	1	3	2	1

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1.96	2.93	0.98	1.96	2.93								2.93		0.98
CO2	2.89	2.89	2.89	2.89	1.93	0.96	0.96				0.96	0.96	2.89	0.96	0.96
CO3	2.90	2.90	2.90	2.90	2.90	0.97	0.97				0.97		2.90	1.93	0.97
CO4	1.94	1.94	2.91	1.94	0.97			0.97	0.97		0.97	0.97	2.91	1.94	0.97
PO Attainment From Course	2.42	2.67	2.42	2.42	2.18	0.97	0.97	0.97	0.97	0.00	0.97	0.97	2.91	1.61	0.97
% of PO Attainment From Course	80.75	88.90	80.70	80.75	72.78	32.17	32.17	32.38	32.38	0.00	32.24	32.24	97.00	53.78	32.33



 Mrs. D.A. Alone Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	PCC-CS304: Computer Networks-I	

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Roll Number		
1	15	30
2	14	30
3	18	30
4	11	30
5	13	30
6	15	30
7	22	30
8	21	30
9	14	30
10	11	30
11	11	30
12	20	28
13	18	28
14	13	30
15	16	30
16	10	30
17	8	30
18	21	26
19	12	30
20	18	30
21	9	30
22	11	30
23	12	30
24	12	30
25	10	30
26	17	30
27	17	30
28	16	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Roll Number		
29	17	30
30	17	30
31	15	30
32	15	30
33	AB	30
34	12	30
35	12	30
36	16	28
37	20	26
38	23	30
39	12	30
40	23	30
41	18	30
42	22	30
43	17	28
44	27	30
45	23	30
46	18	30
47	17	26
48	18	28
49	19	30
50	15	30
51	14	30
52	28	30
53	18	30
54	AB	30
55	16	30
56	19	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Roll Number		
57	19	30
58	20	30
59	22	30
60	18	30
61	15	30
62	21	30
63	22	30
64	23	30
65	18	30
66	18	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Roll Number		
67	15	30
68	13	30
69	0	30
70	0	30
71	0	30
72	0	30
73	0	30
74	0	30
75	0	30
76	0	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Threshold %	50	
Threshold Marks	15	15
No. of Students Above Threshold Marks	46	76
Total No. of Students in Class	76	
CO Wise Average Percentage Attainment*	60.53	100.00
Attainment Level**	2	3

CO	Average Attainment Level**	*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3
CO1	2	
CO2	2	
CO3	2	
CO4	3	
CO5	3	
CO6	3	

 Mr. V. D. Chougule Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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ESE Result Analysis: Attainment of COs

Academic Year:2021-22		Class:SY	Semester III
Program: CSE		PCC-CS304: Computer Networks-I	

Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4,CO5,CO6			CO	CO1, CO2, CO3, CO4,CO5,CO6		
Marks	70	50	25	Marks	70	50	25
PRN				PRN			
2020074038	39	40	20	2020074024	39	41	18
2020073988	31	35	19	2020074502	48	37	18
2020074138	50	38	18	2020073995	45	37	21
2020074151	45	38	19	2021074084	64	39	19
2020074493	39	33	19	2020073999	45	40	20
2020074002	42	30	18	2020074156	48	37	21
2020074511	42	40	22	2020074026	48	40	22
2020073987	48	40	22	2020073982	45	37	20
2021074081	53	37	20	2021074078	59	38	20
2020074706	39	38	20	2020073990	34	0	19
2020074508	34	34	19	2020074491	53	36	19
2020074015	34	39	19	2020074507	34	38	20
2020073992	39	40	20	2020073984	53	37	20
2021074079	64	36	19	2020074040	50	35	20
2020074058	39	38	21	2020074496	59	36	20
2020074132	39	38	21	2020074498	48	36	19
2020074516	48	38	19	2020074134	50	37	19
2020074021	39	34	19	2020074056	45	37	20
2020074500	53	37	21	2020074049	36	43	21
2020074153	34	40	20	2020074133	48	38	19
2020074128	56	36	18	2021074077	50	40	20
2021074076	59	34	18	2020074139	53	40	21
2020074517	45	40	19	2020074483	39	39	21
2020074127	31	0	17	2020074018	45	38	22
2020074029	48	38	18	2020074509	62	39	23
2020074008	62	36	19	2020074033	45	37	19
2021074074	62	39	20	2020074005	31	36	17
2021074075	56	36	19	2020074146	56	39	21

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4,CO5,CO6		
Marks	70	50	25
PRN			
2020073978	48	38	22
2020074708	59	44	22
2021074080	64	32	20
2020073983	45	37	21
2020074044	59	39	22
2020073986	53	38	22
2020074149	45	34	19
2020074512	50	35	18
2020074144	50	39	19
2020074147	50	36	19

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4,CO5,CO6		
Marks	70	50	25
PRN			
2020074155	48	37	19
2020074707	48	38	20
2020074136	53	38	18
2020074130	36	37	18
2020074135	48	37	18
2020074121	50	36	18
2020074150	45	34	20
2020074075	48	39	22
2020074063	45	37	19
2020074060	56	36	19

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3,CO4,CO5,CO6		
Marks	70	50	25
Threshold %	53	72	76
Threshold Marks	40	36	19
No. of Students Above Threshold Marks	57	63	62
Total No. of Students in Class	76	76	76
CO Wise Average Percentage Attainment*	75.00	82.89	81.58
Attainment Level**	3	3	3

CO	Average Attainment Level**		
	ESE	OE/POE	TW
CO1	3	3	3
CO2	3	3	3
CO3	3	3	3
CO4	3	3	3
CO5	3	3	3
CO6	3	3	3

***Calculate CO wise Percentage Attainment Level Manually**
****Enter the level of Attainment as per Below Range**
0%- 33 % = 1
34%-66% =2
67%-100%=3

 Mr. Vijay D. Chougule Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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COURSE EXIT SURVEY

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	PCC-CS304: Computer Networks-I	

Name of Student: _____

Roll NO: _____

After the completion of the course PCC-CS304: Computer Networks-I Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Demonstrate concepts of Computer Networks

Rate _____

CO2 Q2. Explain OSI and TCP/IP layered architecture

Rate _____

CO3 Q3. Implement network and data linklayer

Rate _____

CO4 Q4. Demonstrate TCP protocol in detail

Rate _____

CO5 Q5. To analyze the protocol structure using network analyzing tools

Rate _____

CO6 Q6. Apply the principals of socket programming in the networks

Rate _____

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

Faculty Sign

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	PCC-CS304: Computer Networks-I	

Roll No	PRN	CO1	CO2	CO3	CO4	CO5	CO6
1	2020074038	3	2	3	2	3	2
2	2020073988	2	3	2	3	2	3
3	2020074138	3	2	3	2	3	2
4	2020074151	2	3	3	2	3	3
5	2020074493	3	2	3	2	3	3
6	2020074002	2	2	2	3	2	3
7	2020074511	3	2	3	2	3	2
8	2020073987	2	3	2	3	2	3
9	2021074081	3	2	3	2	3	2
10	2020074706	2	3	3	2	3	3
11	2020074508	3	2	3	2	3	3
12	2020074015	2	3	2	3	2	3
13	2020073992	3	2	3	2	3	2
14	2021074079	2	2	2	3	2	3
15	2020074058	3	2	3	2	3	2
16	2020074132	2	3	3	2	3	3
17	2020074516	3	2	3	2	3	3
18	2020074021	2	3	2	3	2	3
19	2020074500	3	2	3	2	3	2
20	2020074153	2	3	2	3	2	3
21	2020074128	3	2	3	2	3	2
22	2021074076	2	3	3	2	3	3
23	2020074517	3	2	3	2	3	3
24	2020074127	2	3	2	3	2	3
25	2020074029	3	2	3	2	3	2
26	2020074008	2	3	2	3	2	3
27	2021074074	3	2	3	2	3	2
28	2021074075	2	2	3	2	3	3
29	2020074024	3	2	3	2	3	3
30	2020074502	2	2	2	3	2	3
31	2020073995	3	2	3	2	3	2
32	2021074084	2	2	2	3	2	3
33	2020073999	3	2	3	2	3	2
34	2020074156	2	2	3	2	3	3
35	2020074026	3	2	3	2	3	3
36	2020073982	2	3	2	3	2	3
37	2021074078	3	2	3	2	3	2
38	2020073990	2	3	2	3	2	3
39	2020074491	3	2	3	2	3	2
40	2020074507	2	2	3	2	3	3
41	2020073984	3	2	3	2	3	3
42	2020074040	2	3	2	3	2	3

43	2020074496	3	2	3	2	3	2
44	2020074498	2	3	2	3	2	3
45	2020074134	3	2	3	2	3	2
46	2020074056	2	3	3	2	3	3
47	2020074049	3	2	3	2	3	3
48	2020074133	2	2	2	3	2	3
49	2021074077	3	2	3	2	3	2
50	2020074139	2	2	2	3	2	3
51	2020074483	3	2	3	2	3	2
52	2020074018	2	2	3	2	3	3
53	2020074509	3	2	3	2	3	3
54	2020074033	2	3	2	3	2	3
55	2020074005	3	2	3	2	3	2
56	2020074146	2	3	2	3	2	3
57	2020073978	3	2	3	2	3	2
58	2020074708	2	3	3	2	3	3
59	2021074080	3	2	3	2	3	3
60	2020073983	2	3	2	3	2	3
61	2020074044	3	2	3	2	3	2
62	2020073986	2	2	2	2	2	3
63	2020074149	3	2	3	2	3	2
64	2020074512	2	2	3	2	3	3
65	2020074144	3	2	3	2	3	3
66	2020074147	2	2	2	2	2	2
67	2020074155	3	2	3	2	3	2
68	2020074707	2	2	2	2	2	2
69	2020074136	3	2	3	2	3	2
70	2020074130	2	2	3	2	3	3
71	2020074135	3	2	3	2	3	2
72	2020074121	2	2	2	3	2	3
73	2020074150	2	2	2	3	2	3
74	2020074075	3	2	3	2	3	2
75	2020074063	2	3	3	2	3	3
76	2020074060	3	2	3	2	3	3
		190	173	203	174	203	200
		2.50	2.28	2.67	2.29	2.67	2.63
Average Indirect Attainment		2.51					



Faculty Sign



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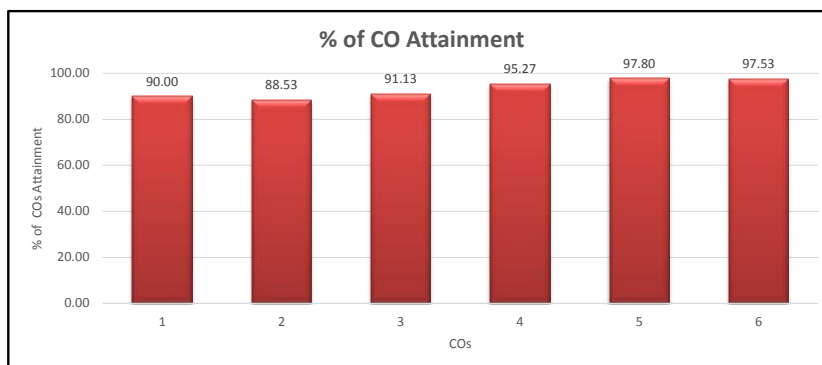
Dr. Vijay Ghorpade

M.E., Ph. D. (Computer)

Attainment of COs

Program: CSE		PCC-CS304: Computer Networks-I				Class: SY	Semester III	Academic Year: 2021-22	
SN	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW	Attainment Level Weighted Average	(Course End Survey)		
	Weightage	0.25	0.25	0.25	0.25				
CO1	Demonstrate concepts of Computer Networks	2	3	3	3	2.75	2.50	2.70	90.00
CO2	Explain OSI and TCP/IP layered architecture	2	3	3	3	2.75	2.28	2.66	88.53
CO3	Implement network and data linklayer	2	3	3	3	2.75	2.67	2.73	91.13
CO4	Demonstrate TCP protocol in detail	3	3	3	3	3.00	2.29	2.86	95.27
CO5	To analyze the protocol structure using network analyzing tools	3	3	3	3	3.00	2.67	2.93	97.80
CO6	Apply the principals of socket programming in thenetworks	3	3	3	3	3.00	2.63	2.93	97.53

Overall Attainment=0.8*Direct+0.2*Indirect



 Mr. Vijay D. Chougule Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

Attainment of POs

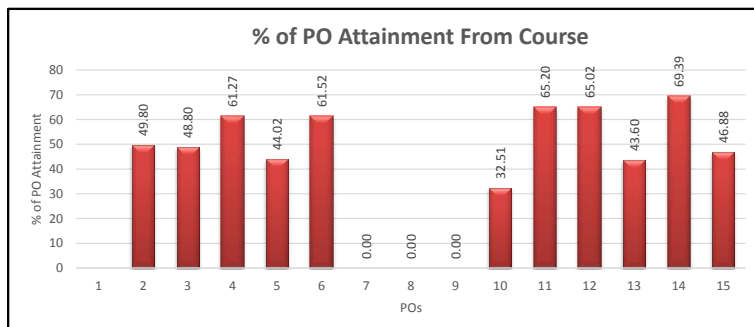
Program: CSE	PCC-CS304: Computer Networks-I	Class: SY	Semester III	Academic Year: 2021-22
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CO-PO Mapping

CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.70	3	2		1								1	3	1	
CO2	2.66	1	3	2	1	3							1	2		
CO3	2.73		1		1								2		2	
CO4	2.86	1		2		2								2	1	
CO5	2.93	2	1		2						2		2			
CO6	2.93	1	1		2	1				1		2	1	2	2	

CO-PO Attainment

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.70	1.80		0.90								0.90	2.70	0.90	
CO2	0.89	2.66	1.77	0.89	2.66							0.89	1.77		
CO3		0.91		0.91								1.82		1.82	
CO4	0.95		1.91		1.91								1.91	0.95	
CO5	1.96	0.98		1.96						1.96		1.96			
CO6	0.98	0.98		1.95	0.98				0.98		1.95	0.98	1.95	1.95	
PO Attainment From Course	1.49	1.46	1.84	1.32	1.85	0.00	0.00	0.00	0.98	1.96	1.95	1.31	2.08	1.41	0.00
% of PO Attainment From Course	49.80	48.80	61.27	44.02	61.52	0.00	0.00	0.00	32.51	65.20	65.02	43.60	69.39	46.88	0.00



 Mr. Vijay D. Chougule Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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PRINCIPAL
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M.E., Ph. D. (Computer)

Academic Year:2021-22			Class: S.Y		Semester III
Program: CSE			PCC-CS305 – Microprocessors		
Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4,C05,CO6	CO	CO1, CO2,CO3	CO4,C05,CO6
Marks	30	30	Marks	30	30
Roll Number			Roll Number		
1	19	26	29	20	26
2	22	26	30	23	26
3	21	26	31	22	24
4	17	22	32	27	25
5	27	26	33	25	24
6	27	23	34	15	26
7	26	26	35	17	26
8	27	26	36	22	24
9	22	24	37	22	24
10	19	26	38	21	18
11	13	24	39	23	25
12	20	24	40	23	26
13	22	26	41	15	26
14	22	26	42	18	26
15	16	26	43	18	28
16	28	26	44	24	28
17	26	26	45	21	25
18	23	26	46	21	26
19	27	28	47	22	28
20	26	28	48	12	25
21	21	24	49	14	24
22	12	24	50	14	25
23	12	26	51	18	28
24	12	20	52	16	23
25	12	26	53	15	29
26	23	26	54	26	26
27	26	27	55	22	20
28	25	25	56	20	22

Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO4,C05,CO6	CO	CO1, CO2	CO4,C05,CO6
Marks	30	30	Marks	30	30
Roll Number			Roll Number		
57	24	26	67	25	29
58	24	26	68	14	29
59	22	26	69	19	29
60	25	18	70	19	28
61	13	28	71	17	24
62	23	26	72	-	26
63	21	26	73	-	24
64	21	28	74	-	27
65	14	28	75	-	24
66	21	28	76		26
Exam		CIE: Mid Term Test		CIE: End Term Test	
CO		CO1, CO2,CO3		CO4,C05,CO6	
Marks		30		30	
Threshold %		60			
Threshold Marks		18		18	
No. of Students Above Threshold Marks		47		73	
Total No. of Students in Class		76			
CO Wise Average Percentage Attainment*		61.84		96.05263158	
Attainment Level**		2		3	
CO	Average Attainment Level**	*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3			
CO1	2				
CO2	2				
CO3	2				
CO4	3				
CO5	3				
CO6	3				
 Mrs.A.H.Tirmare Course Coordinator		 Dr. Kamalakar R. Desai HoD		 Dr. Vijay R. Ghorpade Principal	



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Academic Year:2021-22				Class: S.Y		Semester III		
Program: CSE				PCC-CS305 – Microprocessors				
Exam	ESE	OE/POE	TW		Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6				CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	NA	25		Marks	70	NA	25
PRN					PRN			
2020074038	64	NA	20		2020074491	62	NA	23
2020073988	62	NA	20		2020074507	62	NA	18
2020074138	62	NA	20		2020073984	62	NA	19
2020074151	59	NA	20		2020074040	62	NA	23
2020074493	62	NA	17		2020074496	62	NA	23
2020074002	56	NA	19		2020074498	62	NA	23
2020074511	59	NA	23		2020074134	64	NA	23
2020073987	59	NA	23		2020074056	62	NA	23
2021074081	62	NA	20		2020074049	59	NA	23
2020074706	64	NA	20		2020074133	62	NA	22
2020074508	62	NA	22		2021074077	62	NA	20
2020074015	62	NA	21		2020074139	59	NA	23
2020073992	64	NA	21		2020074483	56	NA	23
2021074079	62	NA	20		2020074018	64	NA	22
2020074058	59	NA	21		2020074509	62	NA	23
2020074132	64	NA	20		2020074033	62	NA	22
2020074516	62	NA	20		2020074005	56	NA	17
2020074021	62	NA	18		2020074146	59	NA	20
2020074500	62	NA	18		2020073978	62	NA	23
2020074153	62	NA	23		2020074708	62	NA	23
2020074128	56	NA	22		2021074080	62	NA	20
2021074076	64	NA	20		2020073983	53	NA	22
2020074517	62	NA	20		2020074044	64	NA	22
2020074127	64	NA	17		2020073986	62	NA	23
2020074029	62	NA	20		2020074149	56	NA	20
2020074008	59	NA	23		2020074512	62	NA	20
2021074074	62	NA	20		2020074144	62	NA	22
2021074075	62	NA	20		2020074147	62	NA	21

Exam	ESE	OE/POE	TW		Exam	ESE	OE/POE	TW	
CO	CO1, CO2, CO3, CO4, CO5,CO6				CO	CO1, CO2, CO3, CO4, CO5,CO6			
Marks	70	50	25		Marks	70	50	25	
PRN					PRN				
2020074024	56	NA	20		2020074155	62	NA	21	
2020074502	62	NA	17		2020074707	62	NA	22	
2020073995	59	NA	22		2020074136	59	NA	19	
2021074084	62	NA	20		2020074130	64	NA	22	
2020073999	59	NA	23		2020074135	62	NA	22	
2020074156	62	NA	21		2020074121	62	NA	20	
2020074026	59	NA	23		2020074150	59	NA	20	
2020073982	59	NA	23		2020074075	62	NA	23	
2021074078	62	NA	20		2020074063	62	NA	20	
2020073990	50	NA	17		2020074060	62	NA	23	
Exam		ESE			OE/POE		TW		
CO		CO1, CO2, CO3,CO4,CO5,CO6							
Marks		70			NA		25		
Threshold %		60			NA		60		
Threshold Marks		42			NA		15		
No. of Students Above Threshold Marks		70			NA		71		
Total No. of Students in Class		76			NA		76		
CO Wise Average Percentage Attainment*		92.11			NA		93.42		
Attainment Level**		3			NA		3		
CO	Average Attainment Level**				*Calulate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3				
	ESE	OE/POE	TW						
	CO1	3	NA						3
	CO2	3	NA						3
	CO3	3	NA						3
	CO4	3	NA						3
	CO5	3	NA						3
CO6	3	NA	3						
 Mrs.A.H.Tirmare Course Coordinator				 Dr. Kamalakar R. Desai HoD		 Dr. Vijay R. Ghorpade Principal			



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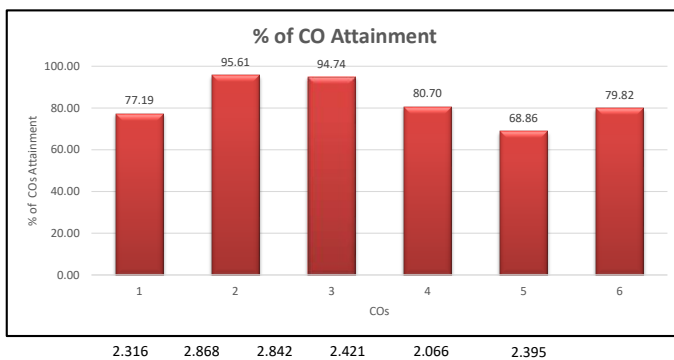
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Attainment of COs

Program: CSE		PCC-CS305 – Microprocessors				Class:S.Y	Semester III	Academic Year: 2021-22	
Sr. No.	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
	Weightage	CIE	ESE	OE/POE	TW	Attainment Level Weighted Average	(Course End Survey)		
CO1	Describe the Architecture of 8085 microprocessors and microcontroller	2	3	NA	3	2.75	2.43	2.32	77.19
CO2	Classify the 8086 Assembly Instructions set and use in Assembly	2	3	NA	3	2.75	2.90	2.87	95.61
CO3	Explain Programming model's of 8086 microprocessors	2	3	NA	3	2.75	2.88	2.84	94.74
CO4	Classify the 8086 Assembly Instructions set and use in Assembly language Programs	3	3	NA	3	3.00	2.43	2.42	80.70
CO5	Understand the higher processor architecture	3	3	NA	3	3.00	2.10	2.07	68.86
CO6	Understand the need for other Microprocessors	3	3	NA	3	0.00	2.40	2.39	79.82

Overall Attainment=0.8*Direct+0.2*Indirect



 Mrs.A.H.Tirmare Course Coordinator	 Dr. Kamalakar R. Desai HoD	 Dr. Vijay R. Ghorpade Principal
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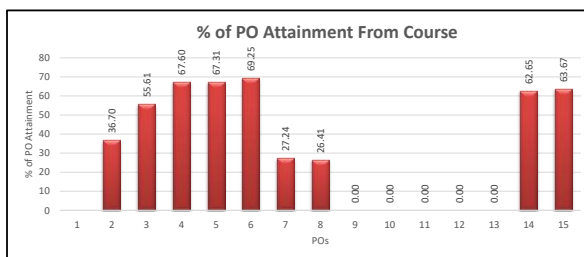
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Attainment of POs

Program: CSE	PCC-CS305 – Microprocessors	Class: SY	Semester III	Academic Year: 2021-22
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CO-PO Mapping														
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
CO1	2.32	1	2	3	2	3		1						2
CO2	2.87	1	2	2	2	2	1							1
CO3	2.84	2	2	2	3	3								2
CO4	2.42	1	2	3	3	3	1	1						3
CO5	2.07	2	2	2	2	2	1							3
CO6	2.39	1		2		2		1						3
CO-PO Attainment														
CO No.		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1
CO1	0.77	1.54	2.32	1.54	2.32			0.77						1.54
CO2	0.96	1.91	1.91	1.91	1.91	0.96								0.96
CO3	1.89	1.89	1.89	2.84	2.84									1.89
CO4	0.81	1.61	2.42	2.42	2.42	0.81	0.81							2.42
CO5	1.38	1.38		1.38	1.38	0.69								2.07
CO6	0.80		1.60		1.60		0.80							2.39
PO Attainment From Course		1.10	1.67	2.03	2.02	2.08	0.82	0.79						1.88
% of PO Attainment From Course		36.70	55.61	67.60	67.31	69.25	27.24	26.41	0.00	0.00	0.00	0.00	0.00	62.65



 Mrs Aarti.H.Tirmare Course Coordinator	 Dr. Kamalakar R. Desai HoD	 Dr. Vijay R. Ghorpade Principal
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COURSE EXIT SURVEY

Academic Year:2021-22	Class: B TECH	Semester VIII
Program: CSE	PCC-CS305 – Microprocessors	

Name of Student: _____ Roll NO: _____

After the completion of the course PCC- CS702 : Cloud Computing Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1. Describe the Architecture of 8085 microprocessors and microcontroller

Rate_____

CO2. Classify the 8086 Assembly Instructions set and use in Assembly language Programs

Rate_____

CO3. Explain Programming model's of 8086 Explain Programming model's of 8086 microprocessors

Rate_____

CO4. Classify the 8086 Assembly Instructions set and use in Assembly language Programs

Rate_____

CO5. Understand the higher processor architecture

Rate_____

CO6. Understand the need for other Microprocessors

Rate_____

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

Faculty Sign

Academic Year:2021-22			Class: SY			Semester III	
Program: CSE			PCC-CS305 – Microprocessors				
Roll No	PRN	C01	CO2	CO3	CO4	CO5	CO6
1	2020074038	3	3	3	3	2	3
2	2020073988	3	3	3	3	1	1
3	2020074138	3	3	3	3	1	3
4	2020074151	3	3	3	3	2	3
5	2020074493	3	3	3	1	3	1
6	2020074002	3	3	3	3	1	3
7	2020074511	3	3	3	3	2	3
8	2020073987	3	2	3	2	3	2
9	2021074081	2	3	3	3	3	3
10	2020074706	3	3	3	3	1	3
11	2020074508	3	3	3	3	3	3
12	2020074015	3	3	3	3	2	3
13	2020073992	3	3	3	3	1	3
14	2021074079	3	3	3	3	2	3
15	2020074058	3	3	3	3	3	3
16	2020074132	3	3	3	3	2	3
17	2020074516	3	3	3	3	2	3
18	2020074021	3	3	3	3	3	3
19	2020074500	3	3	3	3	1	3
20	2020074153	3	3	3	3	2	3
21	2020074128	1	3	3	2	3	2
22	2021074076	3	3	3	3	2	3
23	2020074517	2	3	3	3	3	3
24	2020074127	3	3	3	2	2	2
25	2020074029	3	3	3	1	1	1
26	2020074008	3	3	3	1	3	1
27	2021074074	3	3	3	3	3	3
28	2021074075	3	3	3	3	2	3
29	2020074024	3	3	3	3	2	3
30	2020074502	3	3	3	2	2	2
31	2020073995	3	3	3	3	3	3
32	2021074084	1	3	3	3	2	3
33	2020073999	3	3	3	3	3	3
34	2020074156	1	3	3	3	3	3
35	2020074026	3	3	3	3	2	3
36	2020073982	3	3	3	3	1	3
37	2021074078	3	3	3	3	2	3
38	2020073990	1	3	3	3	1	3
39	2020074491	3	3	3	1	2	1
40	2020074507	3	3	3	1	3	1
41	2020073984	1	3	3	2	3	2
42	2020074040	3	3	3	3	2	3
43	2020074496	2	3	3	3	1	3
44	2020074498	3	3	3	3	2	3
45	2020074134	2	3	1	3	1	3

46	2020074056	3	3	3	1	2	1
47	2020074049	3	3	3	3	3	3
48	2020074133	1	3	3	1	2	1
49	2021074077	1	3	3	2	1	2
50	2020074139	3	3	1	3	3	3
51	2020074483	2	1	3	1	1	1
52	2020074018	1	3	3	3	2	3
53	2020074509	3	2	2	3	3	3
54	2020074033	3	3	3	3	2	3
55	2020074005	2	3	3	2	1	2
56	2020074146	3	3	3	3	2	3
57	2020073978	1	3	2	2	3	2
58	2020074708	2	1	3	1	1	1
59	2021074080	2	3	3	1	2	1
60	2020073983	1	3	3	2	3	2
61	2020074044	3	3	3	2	2	2
62	2020073986	1	2	2	1	3	1
63	2020074149	3	3	3	3	2	3
64	2020074512	2	3	3	2	3	2
65	2020074144	1	3	2	1	3	1
66	2020074147	2	3	3	3	3	3
67	2020074155	2	3	2	1	2	1
68	2020074707	1	3	3	3	1	3
69	2020074136	1	3	3	2	3	2
70	2020074130	1	3	3	3	2	3
72	2020074124	2	3	3	2	1	2
73	2020074121	1	3	3	3	1	3
74	2020074150	1	3	3	2	3	2
75	2020074075	1	3	3	3	2	3
76	2020074063	2	3	3	2	1	2
		176	218	216	184	157	182
		2.32	2.87	2.84	2.42	2.07	2.39
Average Indirect Attainment			2.48				



Faculty Sign



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M.E., Ph. D. (Computer)

ESE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	(PCC-CS306) C Programming	

Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6			CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	NA	25	Marks	70	NA	25
RN				RN			
2020074038	NA	38	42	2020074024	NA	32	36
2020073988	NA	30	40	2020074502	NA	34	38
2020074138	NA	30	32	2020073995	NA	45	40
2020074151	NA	32	42	2021074084	NA	35	38
2020074493	NA	22	38	2020073999	NA	30	42
2020074002	NA	35	34	2020074156	NA	33	36
2020074511	NA	42	38	2020074026	NA	34	30
2020073987	NA	42	48	2020073982	NA	41	30
2021074081	NA	42	42	2021074078	NA	34	42
2020074706	NA	32	40	2020073990	NA	31	38
2020074508	NA	30	38	2020074491	NA	40	38
2020074015	NA	35	34	2020074507	NA	30	40
2020073992	NA	45	42	2020073984	NA	25	38
2021074079	NA	37	38	2020074040	NA	30	42
2020074058	NA	34	44	2020074496	NA	34	44
2020074132	NA	32	42	2020074498	NA	42	42
2020074516	NA	32	38	2020074134	NA	35	42
2020074021	NA	30	32	2020074056	NA	31	46
2020074500	NA	45	30	2020074049	NA	30	38
2020074153	NA	43	38	2020074133	NA	38	44
2020074128	NA	30	34	2021074077	NA	45	38
2021074076	NA	34	42	2020074139	NA	39	42
2020074517	NA	45	34	2020074483	NA	40	44
2020074127	NA	31	42	2020074018	NA	30	47
2020074029	NA	46	36	2020074509	NA	46	46
2020074008	NA	46	38	2020074033	NA	30	30
2021074074	NA	37	34	2020074005	NA	30	25
2021074075	NA	38	42	2020074146	NA	46	44

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
RN			
2020073978	NA	41	42
2020074708	NA	36	46
2021074080	NA	36	38
2020073983	NA	32	42
2020074044	NA	31	42
2020073986	NA	35	42
2020074149	NA	34	30
2020074512	NA	46	42
2020074144	NA	34	36
2020074147	NA	33	42
2020074155	NA	46	36
2020074707	NA	22	38
2020074136	NA	35	40
2020074130	NA	25	46

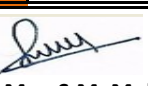
Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
RN			
2020074135	NA	40	40
2020074121	NA	30	40
2020074150	NA	34	36
2020074075	NA	35	46
2020074063	NA	30	30
2020074060	NA	35	40

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	NA	50	50
Threshold %	NA	40	40
Threshold Marks	NA	20	20
No. of Students Above Threshold Marks	NA	76	76
Total No. of Students in Class	NA	76	76
CO Wise Average Percentage Attainment*	NA	100	100.00
Attainment Level**	NA	3	3

CO	Average Attainment Level**			* Calculate CO wise Percentage Attainment Level Manually ** Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3
	ESE	OE/POE	TW	
CO1	NA	3	3	
CO2	NA	3	3	
CO3	NA	3	3	
CO4	NA	3	3	
CO5	NA	3	3	
CO6	NA	3	3	



Mrs. R.V. Jadhav
Course Coordinator



Mrs. S.M. Mulla
HoD



Dr. Vijay R. Ghorpade
Principal



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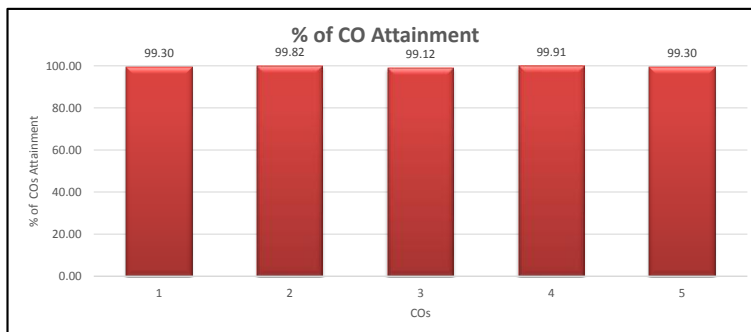
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Attainment of COs

Program: CSE		(PCC-CS306) C Programming				Class: SY	Semester III	Academic Year: 2021-22	
SN	CO Statement	Direct Assessment				Attainment Level Weighted Average	Indirect Assessment (Course End Survey)	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW				
	Weightage	NA	NA	0.5	0.5				
C01	Articulate the principles of procedure oriented problem solving and programming	NA	NA	3	3	3.00	2.89	2.98	99.30
C02	Explain programming fundamentals including statements, control flow and recursion	NA	NA	3	3	3.00	2.97	2.99	99.82
C03	Able to formulate problems and implement algorithms in C	NA	NA	3	3	3.00	2.87	2.97	99.12
C04	Analyze and use data structures to solve the complex problem statements.	NA	NA	3	3	3.00	2.99	3.00	99.91
C05	Demonstrate file operations using file handling concepts through developing applications.	NA	NA	3	3	3.00	2.89	2.98	99.30

Overall Attainment = $0.8 \times \text{Direct} + 0.2 \times \text{Indirect}$



 Mrs. R.V. Jadhav Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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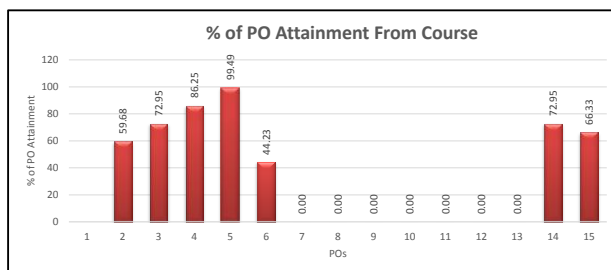
PRINCIPAL
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M.E., Ph. D. (Computer)

Attainment of POs

Program: CSE	(PCC-CS306) C Programming	Class: SY	Semester III	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	2.98	3	3	1	3	1								3	2	
C02	2.99	1	2	3	3	2								2	2	
C03	2.97	1	2	3	3	1								2	2	
C04	3.00	2	2	3	3	0								2	2	
C05	2.98	2	2	3	3	0								2	2	

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	2.98	2.98	0.99	2.98	0.99								2.98	1.99	
C02	1.00	2.00	2.99	2.99	2.00								2.00	2.00	
C03	0.99	1.98	2.97	2.97	0.99								1.98	1.98	
C04	2.00	2.00	3.00	3.00									2.00	2.00	
C05	1.99	1.99	2.98	2.98									1.99	1.99	
PO Attainment From Course	1.79	2.19	2.59	2.98	1.33	0.00	0.00	0.00	0.00			0.00	2.19	1.99	0.00
% of PO Attainment From Course	59.68	72.95	86.25	99.49	44.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.95	66.33	0.00



 Mrs. R.V. Jadhav Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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M.E., Ph. D. (Computer)

COURSE EXIT SURVEY

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	(PCC-CS306) C Programming	

Name of Student: _____

Roll NO: _____

After the completion of the course (PCC-CS306) C Programming Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

Q1. Articulate the principles of procedure oriented problem solving and programming

Rate _____

Q2. Explain programming fundamentals including statements, control flow and recursion

Rate _____

Q3. Able to formulate problems and implement algorithms in C

Rate _____

Q4. Analyze and use data structures to solve the complex problem statements.

Rate _____

Q5. Demonstrate file operations using file handling concepts through developing applications.

Rate _____

CO	CO1	CO2	CO3	CO4	CO5
Rate Given					

Faculty Sign

Academic Year:2021-22			Class: SY	Semester III		
Program: CSE			(PCC-CS306) C Programming			
Roll No	PRN	C01	CO2	CO3	CO4	CO5
1	2020074038	3	3	2	3	2
2	2020073988	3	3	3	3	3
3	2020074138	3	3	3	3	2
4	2020074151	3	3	2	3	3
5	2020074493	2	3	3	3	3
6	2020074002	2	2	3	3	3
7	2020074511	3	3	3	3	3
8	2020073987	2	3	3	3	3
9	2021074081	3	3	2	3	2
10	2020074706	2	3	3	3	2
11	2020074508	3	3	2	3	3
12	2020074015	3	3	3	3	3
13	2020073992	3	3	3	3	2
14	2021074079	3	3	3	3	3
15	2020074058	3	3	2	3	2
16	2020074132	3	3	3	3	3
17	2020074516	3	3	3	3	3
18	2020074021	3	2	3	3	3
19	2020074500	3	3	3	3	3
20	2020074153	3	3	2	3	3
21	2020074128	3	3	3	3	3
22	2021074076	3	3	3	3	3
23	2020074517	3	3	3	3	3
24	2020074127	3	3	3	3	3
25	2020074029	3	3	3	3	3
26	2020074008	3	3	3	3	3
27	2021074074	3	3	3	3	3
28	2021074075	3	3	3	3	3
29	2020074024	3	3	3	3	3
30	2020074502	3	3	3	3	3
31	2020073995	3	3	3	3	3
32	2021074084	3	3	3	3	3
33	2020073999	3	3	3	3	3
34	2020074156	3	3	3	3	3
35	2020074026	3	3	3	3	3
36	2020073982	2	3	3	3	3
37	2021074078	3	3	3	3	3
38	2020073990	3	3	2	3	2
39	2020074491	3	3	3	3	3
40	2020074507	2	3	3	3	3
41	2020073984	3	3	3	3	3
42	2020074040	2	3	2	3	3
43	2020074496	3	3	2	3	3
44	2020074498	3	3	3	3	3
45	2020074134	3	3	3	3	3
46	2020074056	3	3	2	3	3
47	2020074049	3	3	3	2	3
48	2020074133	3	3	3	3	3
49	2021074077	3	3	3	3	3
50	2020074139	3	3	3	3	3
51	2020074483	2	3	3	3	2
52	2020074018	3	3	3	3	3
53	2020074509	3	3	3	3	3
54	2020074033	3	3	3	3	3
55	2020074005	3	3	3	3	3
56	2020074146	3	3	3	3	3
57	2020073978	3	3	3	3	3
58	2020074708	3	3	3	3	3
59	2021074080	3	3	3	3	3
60	2020073983	3	3	3	3	3

61	2020074044	3	3	3	3	3
62	2020073986	3	3	3	3	3
63	2020074149	3	3	3	3	3
64	2020074512	3	3	3	3	3
65	2020074144	3	3	3	3	3
66	2020074147	3	3	3	3	3
67	2020074155	3	3	3	3	3
68	2020074707	3	3	3	3	3
69	2020074136	3	3	3	3	3
70	2020074130	3	3	3	3	3
71	2020074135	3	3	3	3	3
72	2020074121	3	3	3	3	3
73	2020074150	3	3	3	3	3
74	2020074075	3	3	3	3	3
75	2020074063	3	3	3	3	3
76	2020074060	3	3	3	3	3
Indirect CO Attainment		2.89	2.97	2.87	2.99	2.89
Average Indirect Attainment		2.92				


 Faculty Sign



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ESE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	SOFT SKILLS (HM-CS307)	

Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3			CO	CO1, CO2, CO3		
Marks	70	NA	25	Marks	70	NA	25
RN				RN			
2020074038		22	19	2021074084		17	20
2020073988		16	19	2020073999		23	20
2020074138		18	19	2020074156		16	17
2020074151		22	18	2020074026		23	20
2020074493		16	17	2020073982		21	20
2020074002		18	19	2021074078		23	20
2020074511		24	19	2020073990		19	18
2020073987		22	20	2020074491		23	20
2021074081		19	20	2020074507		21	20
2020074706		10	19	2020073984		19	20
2020074508		22	17	2020074040		19	20
2020074015		20	19	2020074496		19	20
2020073992		23	21	2020074498		21	20
2021074079		22	20	2020074134		20	18
2020074058		16	17	2020074056		18	20
2020074132		18	18	2020074049		22	20
2020074516		18	17	2020074133		17	20
2020074021		16	17	2021074077		21	20
2020074500		17	17	2020074139		20	21
2020074153		23	19	2020074483		20	20
2020074128		23	20	2020074018		20	21
2021074076		15	20	2020074509		18	20
2020074517		22	20	2020074033		21	18
2020074127		12	12	2020074005		21	16
2020074029		22	20	2020074146		24	21
2020074008		21	17	2020073978		17	18
2021074074		21	20	2020074708		15	20
2021074075		21	21	2021074080		18	20
2020074024		19	19	2020073983		22	22
2020074502		20	20	2020074044		17	18
2020073995		23	18	2020073986		23	22
Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3			CO	CO1, CO2, CO3		
Marks	70	50	25	Marks	70	50	25
RN				RN			
2020074149		22	18				



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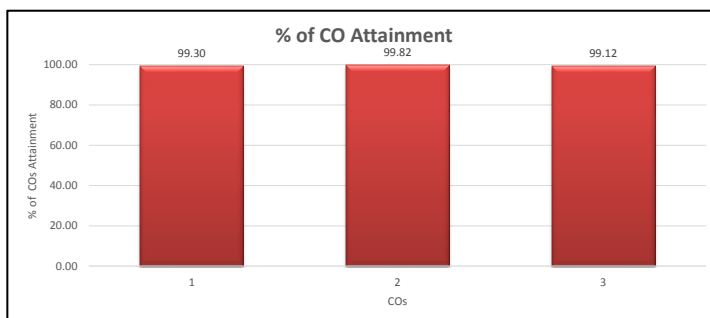
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M.E., Ph. D. (Computer)

Attainment of COs

Program: CSE		SOFT SKILLS (HM-CS307)			Class: SY		Semester III	Academic Year: 2021-22	
SN	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW	Attainment Level Weighted Average			
	Weightage	NA	NA	0.25	0.25		(Course End Survey)		
CO1	Effectively communicate through verbal/oral communication and improve the listening skills			3	3	3.00	2.89	2.98	99.30
CO2	Explain programming fundamentals including statements, control flow and recursion			3	3	3.00	2.97	2.99	99.82
CO3	Function effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, Inter-personal relationships, conflict management and leadership quality.			3	3	3.00	2.87	2.97	99.12

Overall Attainment=0.8*Direct+0.2*Indirect



 Ms.A. M. Yadav Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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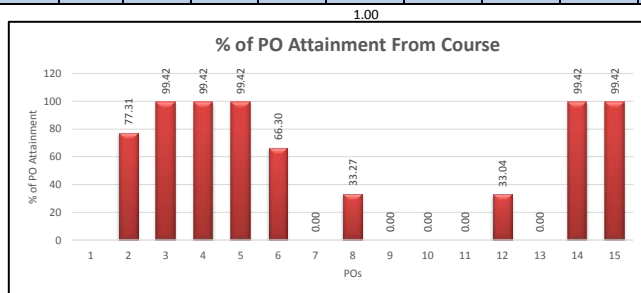
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Attainment of POs

Program: CSE	SOFT SKILLS (HM-CS307)	Class: SY	Semester III	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.98	3	3	3	3	3								3	3	
CO2	2.99	2	3	3	3	2		1						3	3	
CO3	2.97	2	3	3	3	1						1		3	3	

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.98	2.98	2.98	2.98	2.98								2.98	2.98	
CO2	2.00	2.99	2.99	2.99	2.00		1.00						2.99	2.99	
CO3	1.98	2.97	2.97	2.97	0.99						0.99		2.97	2.97	
PO Attainment From Course	2.32	2.98	2.98	2.98	1.99		1.00				0.99		2.98	2.98	
% of PO Attainment From Course	77.31	99.42	99.42	99.42	66.30	0.00	33.27	0.00	0.00	0.00	33.04	0.00	99.42	99.42	0.00



 Ms.A. M. Yadav Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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COURSE EXIT SURVEY

Academic Year:2021-22	Class: SY	Semester III
Program: CSE	SOFT SKILLS (HM-CS307)	

Name of Student: _____

Roll NO: _____

After the completion of the course SOFT SKILLS (HM-CS307) Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

Q1. Effectively communicate through verbal/oral communication and improve the listening skills

Rate _____

Q2. Actively participate in group discussion / meetings / interviews and prepare & deliver

Rate _____

Q3. Function effectively in multi-disciplinary and heterogeneous teams through the knowledge of team

Rate _____

CO	CO1	CO2	CO3
Rate Given			

Faculty Sign

Academic Year:2021-22			Class: SY	Semester III
Program: CSE			SOFT SKILLS (HM-CS307)	
Roll No	PRN	C01	CO2	CO3
1	2020074038	3	3	2
2	2020073988	3	3	3
3	2020074138	3	3	3
4	2020074151	3	3	2
5	2020074493	2	3	3
6	2020074002	2	2	3
7	2020074511	3	3	3
8	2020073987	2	3	3
9	2021074081	3	3	2
10	2020074706	2	3	3
11	2020074508	3	3	2
12	2020074015	3	3	3
13	2020073992	3	3	3
14	2021074079	3	3	3
15	2020074058	3	3	2
16	2020074132	3	3	3
17	2020074516	3	3	3
18	2020074021	3	2	3
19	2020074500	3	3	3
20	2020074153	3	3	2
21	2020074128	3	3	3
22	2021074076	3	3	3
23	2020074517	3	3	3
24	2020074127	3	3	3
25	2020074029	3	3	3
26	2020074008	3	3	3
27	2021074074	3	3	3
28	2021074075	3	3	3
29	2020074024	3	3	3
30	2020074502	3	3	3
31	2020073995	3	3	3
32	2021074084	3	3	3

33	2020073999	3	3	3
34	2020074156	3	3	3
35	2020074026	3	3	3
36	2020073982	2	3	3
37	2021074078	3	3	3
38	2020073990	3	3	2
39	2020074491	3	3	3
40	2020074507	2	3	3
41	2020073984	3	3	3
42	2020074040	2	3	2
43	2020074496	3	3	2
44	2020074498	3	3	3
45	2020074134	3	3	3
46	2020074056	3	3	2
47	2020074049	3	3	3
48	2020074133	3	3	3
49	2021074077	3	3	3
50	2020074139	3	3	3
51	2020074483	2	3	3
52	2020074018	3	3	3
53	2020074509	3	3	3
54	2020074033	3	3	3
55	2020074005	3	3	3
56	2020074146	3	3	3
57	2020073978	3	3	3
58	2020074708	3	3	3
59	2021074080	3	3	3
60	2020073983	3	3	3
61	2020074044	3	3	3
62	2020073986	3	3	3
63	2020074149	3	3	3
64	2020074512	3	3	3
65	2020074144	3	3	3
66	2020074147	3	3	3
67	2020074155	3	3	3
68	2020074707	3	3	3
69	2020074136	3	3	3
70	2020074130	3	3	3
71	2020074135	3	3	3
72	2020074121	3	3	3
73	2020074150	3	3	3
74	2020074075	3	3	3
75	2020074063	3	3	3
76	2020074060	3	3	3
Indirect CO Attainment		2.89	2.97	2.87
Average Indirect Attainment		2.91		

Faculty Sign



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Academic Year:2021-22			Class: SY		Semester III
Program: CSE			BSC-CS 301: Applied Mathematics		
Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5	CO	CO1, CO2, CO3	CO4, CO5
Marks	30	30	Marks	30	30
Roll Number			Roll Number		
1	21	16	29	18	18
2	19	12	30	19	23
3	17	12	31	23	14
4	21	13	32	29	21
5	19	15	33	24	21
6	25	16	34	20	23
7	19	22	35	19	20
8	13	22	36	25	23
9	21	14	37	27	23
10	16	12	38	21	24
11	24	17	39	21	12
12	14	16	40	24	23
13	12	7	41	14	19
14	20	20	42	15	AB
15	13	14	43	24	23
16	26	21	44	Absent	24
17	23	19	45	23	19
18	18	17	46	14	20
19	23	20	47	16	20
20	21	16	48	19	16
21	25	18	49	16	9
22	28	20	50	20	9
23	25	15	51	5	15
24	25	19	52	24	24
25	24	18	53	24	24
26	19	23	54	22	27
27	21	24	55	24	15
28	24	23	56	24	16

Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5,CO6	CO	CO1, CO2, CO3	CO4, CO5,CO6
Marks	30	30	Marks	30	30
Roll Number			Roll Number		
57	23	20	71	21	20
58	21	21	72	20	15
59	17	14			
60	27	21			
61	27	19			
62	26	18			
63	21	21			
64	24	21			
65	26	27			
66	Absent	23			
67	28	26			
68	18	19			
69	25	26			
70	26	20			
Exam		CIE: Mid Term Test	CIE: End Term Test		
CO		CO1, CO2, CO3	CO4, CO5,CO6		
Marks		30	30		
Threshold %		40			
Threshold Marks		12	12		
No. of Students Above Threshold Marks		70	68		
Total No. of Students in Class		76			
CO Wise Average Percentage Attainment*		92.11	89.47		
Attainment Level**		3	3		
CO	Average Attainment Level**	*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3			
CO1	3				
CO2	3				
CO3	3				
CO4	3				
CO5	3				
CO6	3				
 Mr.A.S.Patil Course Coordinator		 Mrs. S.M. Mulla HoD		 Dr. Vijay R. Ghorpade Principal	



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PRINCIPAL

Dr. Vijay Ghorpade

M.E., Ph. D. (Computer)

ESE Result Analysis: Attainment of COs

Academic Year:2021-22					Class:S Y		Semester III			
Program: Computer science and Engineering					BSC-CS 301: Applied Mathematics					
	Exam	ESE	OE	TW		Exam	ESE	OE/POE	TW	
	CO	CO1, CO2, CO3, CO4, CO5,CO6				CO	CO1, CO2, CO3, CO4, CO5,CO6			
	Marks	70	50	25		Marks	70	50	25	
	PRN					PRN				
	2020074038	62		20		2020074024	53		20	
	2020073988	56		20		2020074502	56		17	
	2020074138	62		20		2020073995	64		23	
	2020074151	64		20		2021074084	70		20	
	2020074493	62		18		2020073999	64		24	
	2020074002	59		18		2020074156	56		21	
	2020074511	64		24		2020074026	64		24	
	2020073987	64		24		2020073982	64		24	
	2021074081	59		19		2021074078	53		21	
	2020074706	62		21		2020073990	56		17	
	2020074508	62		22		2020074491	59		24	
	2020074015	59		21		2020074507	56		17	
	2020073992	62		21		2020073984	62		20	
	2021074079	64		18		2020074040	62		24	
	2020074058	64		21		2020074496	64		24	
	2020074132	62		23		2020074498	59		22	
	2020074516	62		20		2020074134	59		23	
	2020074021	62		18		2020074056	56		24	
	2020074500	64		17		2020074049	64		24	
	2020074153	56		24		2020074133	64		23	
	2020074128	62		22		2021074077	64		17	
	2021074076	56		19		2020074139	67		24	
	2020074517	59		19		2020074483	48		24	
	2020074127	56		15		2020074018	64		24	
	2020074029	62		19		2020074509	64		24	
	2020074008	67		23		2020074033	64		23	
	2021074074	53		18		2020074005	53		15	
	2021074075	59		17		2020074146	62		20	
	Exam	ESE	OE/P OE	TW		Exam	ESE	OE/POE	TW	

CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2020073978	62		24
2020074708	62		24
2021074080	64		17
2020073983	64		23
2020074044	70		23
2020073986	62		24
2020074149	56		18
2020074512	62		19
2020074144	62		22
2020074147	59		21
Exam	ESE		TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
Threshold %	60	NA	60
Threshold Marks	42	NA	15
No. of Students Above Threshold Marks	76	NA	76
Total No. of Students in Class	76	NA	76
CO Wise Average Percentage Attainment*	100.00	NA	100.00
Attainment Level**	3	NA	3
CO	Average Attainment Level**		
	ESE	OE	TW
CO1	3	NA	3
CO2	3	NA	3
CO3	3	NA	3
CO4	3	NA	3
CO5	3	NA	3
CO6	3	NA	3
*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3			
 Mr. A. S. Patil Course Coordinator		 Mrs. S.M. Mulla HoD	
		 Dr. Vijay R. Ghorpade Principal	



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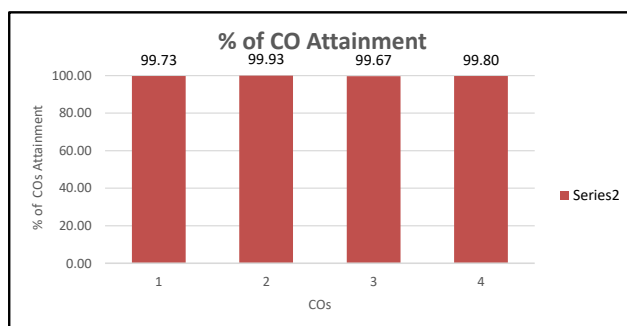
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Attainment of COs

Program: Computer Science and Engineering		BSC-CS 301: Applied Mathematics			Class:Second Year		Semester III	Academic Year: 2021-22	
Sr. No.	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW	Attainment Level Weighted Average	(Course End Survey)		
	Weightage	0.25	0.5	NA	0.25				
CO1	Describe the statistical data numerically by using Lines of regression and curve fitting.	3	3	0	3	3.00	2.96	2.99	99.73
CO2	Solve basic problems in probability theory, including problems involving the binomial, Poisson, and normal distributions.	3	3	0	3	3.00	2.99	3.00	99.93
CO3	Calculate numerical Integration.	3	3	0	3	3.00	2.95	2.99	99.67
CO4	Define fuzzy sets using linguistic words and represent these sets by membership functions, convexity, Normality, support ,etc.	3	3	0	3	3.00	2.97	2.99	99.80
CO5	Solve examples on the principle in performing fuzzy number arithmetic operations such as Addition, Multiplication & fuzzy equation.	3	3	0	3	3.00	2.99	3.00	99.93
CO6	Solve assignment problems by using techniques of operation research.	3	3	0	3	3.00	2.97	2.99	99.80

Overall Attainment=0.8*Direct+0.2*Indirect



 Mr. A. S. Patil Course Coordinator	 Mrs. S. M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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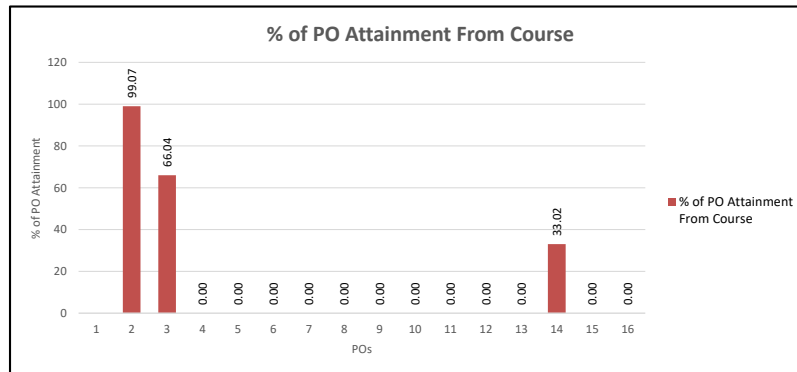
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PRINCIPAL
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M.E., Ph. D. (Computer)

Attainment of POs

Program: Computer Science and Engineering					BSC-CS 301: Applied Mathematics				Class:Second Year			Semester III		Academic Year: 2021-22		
CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.96	3	2											1		
CO2	2.99	3	2											1		
CO3	2.95	3	2											1		
CO4	2.97	3	2											1		
CO5	2.99	3	2											1		
CO6	2.97	3	2											1		
CO-PO Attainment																
CO No.		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		2.96	1.97											0.99		
CO2		2.99	1.99											1.00		
CO3		2.95	1.97											0.98		
CO4		2.97	1.98											0.99		
CO5		2.99	1.99											1.00		
CO6		2.97	1.98											0.99		
PO Attainment From Course		2.97	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00
% of PO Attainment From Course		99.07	66.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.02	0.00	0.00



 Mr. A. S. Patil Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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COURSE EXIT SURVEY

Academic Year:2021-22	Class: S Y.	Semester III
Program: CSE	BSC-CS 301: Applied Mathematics	

Name of Student: _____

Roll NO: _____

After the completion of the course BSC-CS 301: Applied Mathematics Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Describe the statistical data numerically by using Lines of regression and curve fitting.

Rate _____

CO2 Q2. Solve basic problems in probability theory, including problems involving the binomial, Poisson, and normal distributions.

Rate _____

CO3 Q3. Calculate numerical Integration.

Rate _____

CO4 Q4. Define fuzzy sets using linguistic words and represent these sets by membership

Rate _____

CO5 Q5. Solve examples on the principle in performing fuzzy number arithmetic operations such as Addition, Multiplication & fuzzy equation.

Rate _____

CO6 Q6. Solve assignment problems by using techniques of operation research.

Rate _____

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

Faculty Sign

Academic Year:2021-22	Class: S Y	Semester III
Program: CSE	BSC-CS 301: Applied Mathematics	

Roll No	PRN	C01	C02	C03	C04	C05	C06
1	2020074038	3	3	3	3	3	3
2	2020073988	3	3	3	3	3	3
3	2020074138	3	3	3	3	3	3
4	2020074151	3	3	3	3	3	3
5	2020074493	3	3	3	3	3	3
6	2020074002	3	3	3	3	3	3
7	2020074511	3	3	3	3	3	3
8	2020073987	3	3	3	3	3	3
9	2021074081	3	3	3	3	3	3
10	2020074706	3	2	3	3	3	3
11	2020074508	3	3	2	3	3	3
12	2020074015	3	3	3	3	3	3
13	2020073992	2	3	3	3	3	3
14	2021074079	3	3	3	3	3	3
15	2020074058	3	3	3	3	3	3
16	2020074132	3	3	3	3	3	3
17	2020074516	3	3	3	3	3	3
18	2020074021	3	3	2	3	3	3
19	2020074500	3	3	3	3	3	3
20	2020074153	3	3	3	3	3	3
21	2020074128	3	3	3	3	3	3
22	2021074076	3	3	3	3	3	3
23	2020074517	3	3	3	3	3	3
24	2020074127	3	3	3	3	3	3
25	2020074029	3	3	3	3	3	3
26	2020074008	3	3	3	3	3	3
27	2021074074	3	3	3	3	3	3
28	2021074075	3	3	3	3	3	3
29	2020074024	3	3	2	3	3	3
30	2020074502	3	3	3	3	3	3
31	2020073995	3	3	3	3	3	3
32	2021074084	3	3	2	3	3	3
33	2020073999	3	3	3	3	3	3
34	2020074156	3	3	3	3	3	3
35	2020074026	2	3	3	3	3	3
36	2020073982	3	3	3	3	3	3
37	2021074078	3	3	3	3	3	3
38	2020073990	3	3	3	3	3	3
39	2020074491	3	3	3	3	3	3
40	2020074507	3	3	3	3	3	3
41	2020073984	3	3	3	3	3	3
42	2020074040	3	3	3	3	3	3
43	2020074496	3	3	3	3	3	3
44	2020074498	3	3	3	3	3	3
45	2020074134	3	3	3	3	3	3
46	2020074056	3	3	3	3	3	3
47	2020074049	3	3	3	3	3	3
48	2020074133	3	3	3	3	3	3

49	2021074077	3	3	3	3	3	3
50	2020074139	3	3	3	3	3	3
51	2020074483	3	3	3	3	3	3
52	2020074018	3	3	3	3	3	3
53	2020074509	3	3	3	3	3	3
54	2020074033	3	3	3	3	3	3
55	2020074005	3	3	3	3	3	3
56	2020074146	3	3	3	3	3	3
57	2020073978	3	3	3	3	3	3
58	2020074708	3	3	3	3	3	3
59	2021074080	3	3	3	3	3	3
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61	2020074044	3	3	3	3	3	3
62	2020073986	3	3	3	3	3	3
63	2020074149	3	3	3	3	3	3
64	2020074512	3	3	3	3	3	3
65	2020074144	2	3	3	3	3	3
66	2020074147	3	3	3	3	3	3
67	2020074155	3	3	3	3	2	3
68	2020074707	3	3	3	3	3	3
69	2020074136	3	3	3	3	3	3
70	2020074130	3	3	3	3	3	3
71	2020074135	3	3	3	3	3	1
72	2020074121	3	3	3	1	3	3
73	2020074150	3	3	3	3	3	3
74	2020074075	3	3	3	3	3	3
75	2020074063	3	3	3	3	3	3
76	2020074060	3	3	3	3	3	3
		225	227	224	226	227	226
		2.96	2.99	2.95	2.97	2.99	2.97
Average Indirect Attainment		2.97					



Faculty Sign



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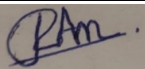
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M.A., LL. B., Ph. D.

PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: T.Y.	Semester IV
Program: CSE	PCC-CS401 Automata Theory	

Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6	CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30	Marks	30	30
Roll Number			Roll Number		
1	13	24	29	24	24
2	12	24	30	27	24
3	14	24	31	20	24
4	12	24	32	24	24
5	21	22	33	17	24
6	17	24	34	24	18
7	21	22	35	20	24
8	25	24	36	19	24
9	17	20	37	23	24
10	17	22	38	24	20
11	17	22	39	23	18
12	20	20	40	21	24
13	16	20	41	15	22
14	20	26	42	18	22
15	25	26	43	20	22
16	12	26	44	1	22
17	6	24	45	28	22
18	24	18	46	23	24
19	22	18	47	16	20
20	23	16	48	15	24
21	AB	AB	49	21	24
22	15	20	50	10	24
23	23	18	51	19	24
24	21	24	52	25	28
25	14	18	53	16	26
26	27	24	54	AB	26
27	24	24	55	20	24
28	16	24	56	22	24

Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5,CO6	CO	CO1, CO2, CO3	CO4, CO5,CO6
Marks	30	30	Marks	30	30
Roll Number			Roll Number		
57	26	22	71	12	18
58	17	24	72	18	16
59	17	20	73	16	16
60	22	22	74	17	18
61	16	18	75	21	20
62	17	14	76	19	20
63	18	14	77		
64	18	26	78		
65	AB	28	79		
66	22	28	80		
67	18	28	81		
68	24	20	82		
69	18	22	83		
Exam		CIE: Mid Term Test	CIE: End Term Test		
CO		CO1, CO2, CO3	CO4, CO5,CO6		
Marks		30	30		
Threshold %		40			
Threshold Marks		12	12		
No. of Students Above Threshold Marks		70	75		
Total No. of Students in Class		76			
CO Wise Average Percentage Attainment*		92.1	98.7		
Attainment Level**		3	3		
CO	Average Attainment Level**	*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3			
CO1	3				
CO2	3				
CO3	3				
CO4	3				
CO5	3				
CO6	3				
 Mrs. R. M. Mane Course Coordinator		 Mrs. S.M. Mulla HoD		 Dr. V. R. Ghorpade Principal	



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ESE Result Analysis: Attainment of COs

Academic Year:2021-22	Class:S.Y.	Semester IV
Program: CSE	PCC-CS401 Automata Theory	

Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6			CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	NA	25	Marks	70	NA	25
PRN				PRN			
2020073990	50	NA	24	2021074074	45	NA	18
2020074038	53	NA	24	2021074075	50	NA	18
2020073988	50	NA	24	2020074024	53	NA	24
2020074138	53	NA	24	2020074502	53	NA	18
2020074151	45	NA	24	2020073995	56	NA	27
2020074493	50	NA	22	2021074084	39	NA	16
2020074002	53	NA	24	2020074150	53	NA	28
2020074511	50	NA	22	2020073999	56	NA	24
2020073987	56	NA	25	2020074156	56	NA	24
2021074081	59	NA	21	2020074026	53	NA	24
2020074706	42	NA	20	2020073982	53	NA	27
2020074508	56	NA	22	2021074078	56	NA	26
2020074015	56	NA	22	2020074491	50	NA	24
2020073992	36	NA	20	2020074507	48	NA	24
2021074079	45	NA	18	2020073984	50	NA	24
2020074058	53	NA	20	2020074040	48	NA	24
2020074132	56	NA	26	2020074496	83	NA	24
2020074516	53	NA	26	2020074498	48	NA	24
2020074021	59	NA	26	2020074134	53	NA	24
2020074500	53	NA	24	2020074056	56	NA	23
2020074135	53	NA	26	2020074049	53	NA	24
2020074153	53	NA	24	2020074133	56	NA	22
2020074128	59	NA	22	2021074077	50	NA	20
2021074076	56	NA	24	2020074139	56	NA	22
2020074517	53	NA	23	2020074483	56	NA	22
2020074029	59	NA	20	2020074018	59	NA	28
2020074008	50	NA	23	2020074509	62	NA	22
2020074121	53	NA	28	2020074075	56	NA	18

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2020074033	53	NA	24
2020074005	45	NA	20
2020074063	53	NA	28
2020074146	50	NA	24
2020073978	56	NA	24
2020074708	50	NA	24
2021074080	50	NA	22
2020074060	53	NA	17
2020073983	59	NA	24
2020074044	56	NA	28
2020073986	56	NA	26
2020074149	50	NA	26
2020074512	53	NA	24
2020074144	53	NA	24

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2020074147	53	NA	26
2020074155	50	NA	24
2020074707	53	NA	20
2020074136	53	NA	22
2020074130	53	NA	18
2020074127			

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	NA	25
Threshold %	40	NA	40
Threshold Marks	28	NA	10
No. of Students Above Threshold Marks	75	NA	72
Total No. of Students in Class	75	NA	75
CO Wise Average Percentage Attainment*	100.00	NA	96.00
Attainment Level**	3	NA	3

CO	Average Attainment Level**		
	ESE	OE/POE	TW
CO1	3	NA	3
CO2	3	NA	3
CO3	3	NA	3
CO4	3	NA	3
CO5	3	NA	3
CO6	3	NA	3

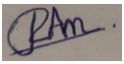
*Calculate CO wise Percentage Attainment Level Manually

**Enter the level of Attainment as per Below Range

0%- 33 % = 1

34%-66% =2

67%-100%=3

 Mrs. R. M. Mane Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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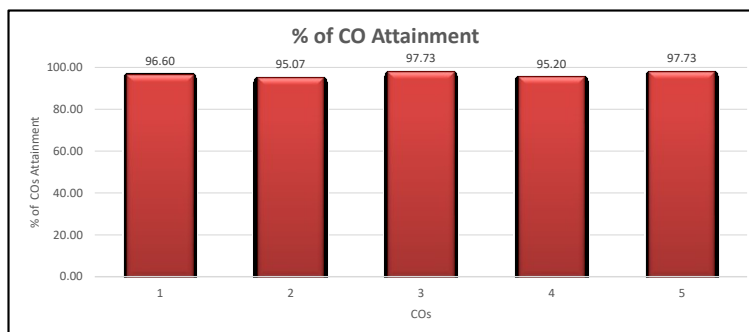
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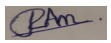
Dr. Vijay Ghorpade

M.E., Ph. D. (Computer)

Attainment of COs

Program: CSE		PCC-CS401 Automata Theory				Class: S.Y.	Semester IV	Academic Year: 2021-22	
SN	CO Statement	Direct Assessment				Attainment Level Weighted Average	Indirect Assessment (Course End Survey)	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW				
	Weightage	0.25	0.5	NA	0.25				
CO1	Understand basic concepts of Regular Language and Regular Expressions	3	3	NA	3	3.00	2.49	2.90	96.60
CO2	Select appropriate abstract machine to recognize a given formallanguage.	3	3	NA	3	3.00	2.26	2.85	95.07
CO3	Generate complex languages by applying Union, Intersection, Complement,	3	3	NA	3	3.00	2.66	2.93	97.73
CO4	Apply parsing concepts for syntaxisanalysis.	3	3	NA	3	3.00	2.28	2.86	95.20
CO5	Be familiar with thinking analytically and intuitively for problem solving situations in	3	3	NA	3	3.00	2.66	2.93	97.73
Overall Attainment=0.8*Direct+0.2*Indirect									



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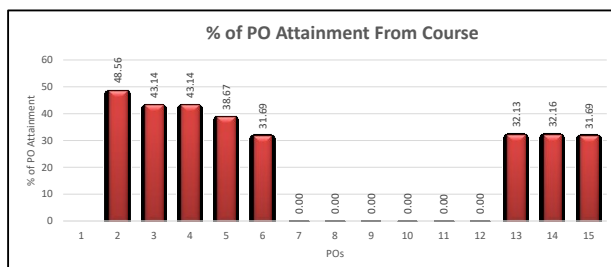
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Attainment of POs

Program: CSE	PCC-CS401 Automata Theory	Class: S.Y.	Semester IV	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	2.90	1			1									1		1
C02	2.85		1	1	1	1							1	1	1	
C03	2.93	3	1	1	1											1
C04	2.86	1		1												
C05	2.93	1	2	2	2		1	1					1	1		1

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	0.97			0.97									0.97		0.97
C02		0.95	0.95	0.95	0.95							0.95	0.95	0.95	
C03	2.93	0.98	0.98	0.98											0.98
C04	0.95			0.95											
C05	0.98	1.95	1.95	1.95		0.98	0.98					0.98	0.98		0.98
PO Attainment From Course	1.46	1.29	1.29	1.16	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.96	0.95	0.00
% of PO Attainment From Course	48.56	43.14	43.14	38.67	31.69	0.00	0.00	0.00	0.00	0.00	0.00	32.13	32.16	31.69	0.00



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COURSE EXIT SURVEY

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS401:Automata Theory	

Name of Student: _____

Roll NO: _____

After the completion of the course PCC-CS401:Automata Theory Do you think following outcomes are achieved. Then rate the achievement on point scale of (1 -3,1: Lowest 3: Highest)

CO1 Q1. Understand basic concepts of Regular Language and Regular Expressions

Rate _____

CO2 Q2. Select appropriate abstract machine to recognize a given formal language.

Rate _____

CO3 Q3. Generate complex languages by applying Union, Intersection, Complement, Concatenation and

Rate _____

CO4 Q4. Apply parsing concepts for syntax analysis.

Rate _____

CO5 Q5. Be familiar with thinking analytically and intuitively for problem solving situations in related areas

Rate _____

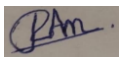
CO	CO1	CO2	CO3	CO4	CO5
Rate Given					

Faculty Sign

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS401:Automata Theory	

Roll No	PRN	C01	C02	C03	C04	C05
1	2020074038	3	2	3	2	3
2	2020073988	2	3	2	3	2
3	2020074138	3	2	3	2	3
4	2020074151	2	3	3	2	3
5	2020074493	3	2	3	2	3
6	2020074002	2	2	2	3	2
7	2020074511	3	2	3	2	3
8	2020073987	2	3	2	3	2
9	2021074081	3	2	3	2	3
10	2020074706	2	3	3	2	3
11	2020074508	3	2	3	2	3
12	2020074015	2	3	2	3	2
13	2020073992	3	2	3	2	3
14	2021074079	2	2	2	3	2
15	2020074058	3	2	3	2	3
16	2020074132	2	3	3	2	3
17	2020074516	3	2	3	2	3
18	2020074021	2	3	2	3	2
19	2020074500	3	2	3	2	3
20	2020074153	2	3	2	3	2
21	2020074128	3	2	3	2	3
22	2021074076	2	3	3	2	3
23	2020074517	3	2	3	2	3
24	2020074127	2	3	2	3	2
25	2020074029	3	2	3	2	3
26	2020074008	2	3	2	3	2
27	2021074074	3	2	3	2	3
28	2021074075	2	2	3	2	2
29	2020074024	3	2	3	2	3
30	2020074502	2	2	2	2	2
31	2020073995	3	2	2	2	3
32	2021074084	2	2	2	3	2
33	2020073999	2	2	3	2	3
34	2020074156	2	2	3	2	3
35	2020074026	3	2	3	2	3
36	2020073982	2	2	2	3	2
37	2021074078	3	2	3	2	3
38	2020073990	2	3	2	3	2
39	2020074491	3	2	3	2	3
40	2020074507	2	2	3	2	3
41	2020073984	3	2	3	2	3
42	2020074040	2	3	2	3	2

43	2020074496	3	2	3	2	3
44	2020074498	2	3	2	3	2
45	2020074134	3	2	3	2	3
46	2020074056	2	3	3	2	3
47	2020074049	3	2	3	2	3
48	2020074133	2	2	2	3	2
49	2021074077	3	2	3	2	3
50	2020074139	2	2	2	3	2
51	2020074483	3	2	3	2	3
52	2020074018	2	2	3	2	3
53	2020074509	3	2	3	2	3
54	2020074033	2	3	2	3	2
55	2020074005	3	2	3	2	3
56	2020074146	2	3	2	3	2
57	2020073978	3	2	3	2	3
58	2020074708	2	3	3	2	3
59	2021074080	3	2	3	2	3
60	2020073983	2	3	2	3	2
61	2020074044	3	2	3	2	3
62	2020073986	2	2	2	2	2
63	2020074149	3	2	3	2	3
64	2020074512	2	2	3	2	3
65	2020074144	3	2	3	2	3
66	2020074147	2	2	2	2	2
67	2020074155	3	2	3	2	3
68	2020074707	2	2	2	2	2
69	2020074136	3	2	3	2	3
70	2020074130	2	2	3	2	3
71	2020074135	3	2	3	2	3
72	2020074121	2	2	2	3	2
73	2020074150	2	2	2	3	2
74	2020074075	3	2	3	2	3
75	2020074063	2	3	3	2	3
76	2020074060	3	2	3	2	3
		189	172	202	173	202
		2.49	2.26	2.66	2.28	2.66
Average Indirect Attainment		2.06				



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CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS 402: Computer Networks-II	

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
1	14	18
2	12	18
3	21	18
4	12	18
5	19	22
6	21	26
7	27	24
8	23	22
9	22	14
10	16	20
11	15	22
12	19	22
13	21	22
14	13	18
15	18	20
16	9	22
17	15	16
18	18	18
19	18	14
20	18	16
21	0	0
22	6	18
23	18	18
24	16	18
25	15	22
26	20	20
27	21	22
28	18	22

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
29	18	20
30	22	22
31	15	26
32	21	24
33	18	24
34	12	16
35	14	16
36	12	18
37	19	20
38	26	22
39	13	24
40	19	20
41	13	18
42	21	20
43	14	22
44	25	22
45	26	22
46	25	20
47	17	22
48	19	22
49	25	18
50	15	18
51	20	24
52	27	16
53	22	12
54	0	16
55	19	22
56	23	26

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
57	20	20
58	26	22
59	25	24
60	18	22
61	21	16
62	27	20
63	21	20
64	20	18
65	0	18
66	19	20

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
67	20	18
68	26	18
69	21	16
70	25	20
71	22	20
72	25	20
73	18	24
74	12	22
75	25	24
76	20	24

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Threshold %	60	
Threshold Marks	18	18
No. of Students Above Threshold Marks	52	64
Total No. of Students in Class	76	
CO Wise Average Percentage Attainment*	68.42	84.21
Attainment Level**	3	3

CO	Average Attainment Level**	*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3
CO1	3	
CO2	3	
CO3	3	
CO4	3	
CO5	3	
CO6	3	

 Mrs. D. A. Alone Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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ESE Result Analysis: Attainment of COs

Academic Year:2021-22		Class: SY	Semester IV
Program: CSE		PCC- CS402 : Computer Networks-II	

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2020073990	62	34	20
2020074038	62	40	20
2020073988	64	34	19
2020074138	62	34	20
2020074151	42	34	19
2020074493	59	34	21
2020074002	56	35	20
2020074511	62	44	24
2020073987	56	40	22
2021074081	53	40	20
2020074706	59	39	20
2020074508	53	38	19
2020074015	59	37	20
2020073992	56	38	21
2021074079	48	38	18
2020074058	59	38	22
2020074132	62	38	20
2020074516	48	38	20
2020074021	56	36	19
2020074500	56	46	21
2020074135	53	36	18
2020074153	59	36	19
2020074128	56	38	20
2021074076	62	36	22
2020074517	67	40	18
2020074029	50	38	19
2020074008	59	44	19
2020074121	59	36	18

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2021074074	67	38	18
2021074075	67	40	18
2020074024	56	18	18
2020074502	48	34	20
2020073995	50	40	18
2021074084	53	40	18
2020074150	53	36	18
2020073999	62	34	20
2020074156	59	34	21
2020074026	59	34	20
2020073982	59	34	22
2021074078	56	38	19
2020074491	64	34	22
2020074507	59	38	20
2020073984	56	38	21
2020074040	56	38	21
2020074496	59	35	21
2020074498	64	34	21
2020074134	50	34	21
2020074056	62	40	22
2020074049	59	36	19
2020074133	59	36	19
2021074077	64	40	19
2020074139	59	37	20
2020074483	59	40	21
2020074018	59	38	23
2020074509	62	46	21
2020074075	62	36	20

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2020074033	62	37	21
2020074005	59	35	18
2020074063	59	36	18
2020074146	59	45	21
2020073978	67	44	18
2020074708	67	46	18
2021074080	67	45	19
2020074060	67	36	20
2020073983	64	41	20
2020074044	64	40	22

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2020073986	59	44	20
2020074149	62	36	18
2020074512	64	40	20
2020074144	64	39	20
2020074147	64	36	20
2020074155	64	36	19
2020074707	56	36	20
2020074136	56	36	21
2020074130	64	36	22

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
Threshold %	60	60	60
Threshold Marks	28	30	10
No. of Students Above Threshold Marks	75	75	75
Total No. of Students in Class	75	75	75
CO Wise Average Percentage Attainment*	100.00	100	100.00
Attainment Level**	3	3	3

CO	Average Attainment Level**		
	ESE	OE/POE	TW
CO1	3	3	3
CO2	3	3	3
CO3	3	3	3
CO4	3	3	3
CO5	3	3	3
CO6	3	3	3

* Calculate CO wise Percentage Attainment Level Manually
 ** Enter the level of Attainment as per Below Range
 0%- 33 % = 1
 34%-66% =2
 67%-100%=3

 Mrs. D. A. Alone Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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COURSE EXIT SURVEY

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC- CS402 : Computer Networks-II	

Name of Student: _____

Roll NO: _____

After the completion of the course PCC- CS402 : Computer Networks-II Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 - 3, 0: Lowest 3: Highest)

CO1 Q1. Write a program of client server model using sockets

Rate _____

CO2 Q2. Explain next generation protocol and addressing model

Rate _____

CO3 Q3. Describe the fundamentals of Domain Name Systems

Rate _____

CO4 Q4. Explain the concepts of Remote login and FTP in network applications

Rate _____

CO5 Q5. Explain fundamentals of web, HTTP and e-mail communication protocols.

Rate _____

CO6 Q6. Explain various multimedia streaming and relevant protocols.

Rate _____

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

Faculty Sign

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC- CS402 : Computer Networks-II	

Roll No	PRN	C01	CO2	CO3	CO4	CO5	CO6
1	2020073990	3	3	2	3	2	3
2	2020074038	3	3	3	3	3	3
3	2020073988	3	3	3	3	3	3
4	2020074138	3	2	3	3	3	3
5	2020074151	3	3	3	3	2	3
6	2020074493	3	2	3	3	3	3
7	2020074002	3	3	3	1	3	3
8	2020074511	3	3	3	3	3	3
9	2020073987	3	3	3	3	3	3
10	2021074081	2	2	3	3	2	2
11	2020074706	3	3	3	2	3	2
12	2020074508	3	2	2	3	3	3
13	2020074015	3	2	3	3	3	3
14	2020073992	3	2	2	2	3	3
15	2021074079	3	3	3	3	3	3
16	2020074058	3	3	3	3	3	2
17	2020074132	3	3	3	3	3	3
18	2020074516	3	3	3	3	3	3
19	2020074021	3	3	3	3	3	3
20	2020074500	3	3	3	3	3	3
21	2020074135	3	3	3	3	3	3
22	2020074153	3	3	3	3	3	3
23	2020074128	3	3	2	3	2	3
24	2021074076	2	2	3	3	3	3
25	2020074517	3	3	3	3	3	3
26	2020074029	3	3	3	3	3	3
27	2020074008	3	3	3	3	3	3
28	2020074121	3	3	3	3	3	3
29	2021074074	3	3	3	2	3	3
30	2021074075	3	2	2	3	3	3
31	2020074024	2	3	3	3	3	3
32	2020074502	3	3	3	3	3	3
33	2020073995	3	3	3	3	3	3
34	2021074084	3	3	3	3	3	3
35	2020074150	3	3	3	2	2	2
36	2020073999	3	3	2	3	3	3
37	2020074156	3	3	3	3	3	3
38	2020074026	3	3	3	3	3	3
39	2020073982	3	3	3	3	3	3
40	2021074078	3	3	3	2	3	3
41	2020074491	3	3	2	3	2	3
42	2020074507	3	3	3	2	3	3
43	2020073984	3	3	3	2	3	3
44	2020074040	3	3	3	3	3	3
45	2020074496	3	3	3	3	3	3
46	2020074498	3	3	3	3	3	3
47	2020074134	3	3	3	3	3	3
48	2020074056	3	3	3	3	2	2
49	2020074049	3	3	3	3	3	2
50	2020074133	3	3	3	3	3	3
51	2021074077	3	3	3	3	3	3
52	2020074139	3	3	3	3	3	3
53	2020074483	3	3	3	3	3	3
54	2020074018	3	3	3	2	3	3

55	2020074509	3	3	3	3	3	3
56	2020074075	3	3	3	3	3	3
57	2020074033	3	3	2	2	2	3
58	2020074005	3	3	3	3	3	3
59	2020074063	3	3	3	3	3	3
60	2020074146	3	3	3	3	3	3
61	2020073978	3	3	3	3	3	3
62	2020074708	3	3	2	3	3	2
63	2021074080	3	3	3	3	2	3
64	2020074060	3	3	3	3	3	3
65	2020073983	3	3	3	3	3	3
66	2020074044	3	3	3	3	3	3
67	2020073986	3	3	3	3	2	3
68	2020074149	3	2	3	3	3	3
69	2020074512	3	3	2	2	3	2
70	2020074144	3	3	3	3	3	3
71	2020074147	3	3	3	2	3	3
72	2020074155	2	3	3	3	3	3
73	2020074707	3	2	2	3	1	1
74	2020074136	3	2	1	3	2	1
75	2020074130	3	2	2	3	2	1
		221	213	211	212	211	211
		2.95	2.84	2.81	2.83	2.81	2.81
Average Indirect Attainment		2.84					



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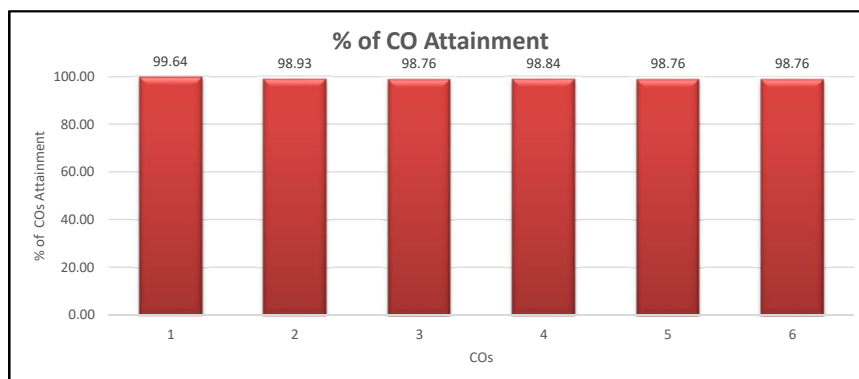
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Attainment of COs

Program: CSE		PCC- CS402 : Computer Networks-II			Class: B TECH		Semester IV	Academic Year: 2021-22	
SN	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW	Attainment Level Weighted Average	(Course End Survey)		
	Weigtage	0.25	0.25	0.25	0.25				
CO1	program the client server model using sockets	3	3	3	3	3.00	2.95	2.99	99.64
CO2	understand and apply next generation protocol and addressing model	3	3	3	3	3.00	2.84	2.97	98.93
CO3	elaborate the fundamentals of Domain Name Systems	3	3	3	3	3.00	2.81	2.96	98.76
CO4	apply the concepts of Remote login and FTP in network applications	3	3	3	3	3.00	2.83	2.97	98.84
CO5	learn fundamentals of web, HTTP and e-mail communication protocols.	3	3	3	3	3.00	2.81	2.96	98.76
CO6	understand multimedia streaming and relevant protocols.	3	3	3	3	3.00	2.81	2.96	98.76

Overall Attainment=0.8*Direct+0.2*Indirect



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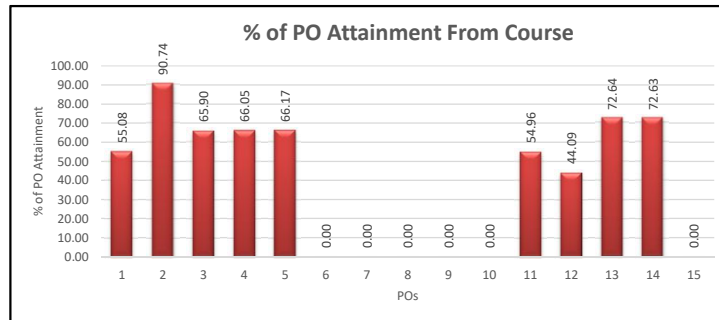
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Attainment of POs

Program: CSE	PCC- CS402 : Computer Networks-II	Class: SY	Semester IV	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.99	2	2		3	3						1	2	3	3	
CO2	2.97		3	2	2	2								3	2	
CO3	2.96	1	3	2		1							1	2	2	
CO4	2.97	2	3	2	2									1	2	
CO5	2.96				1							2	1			
CO6	2.96				2							2		2	2	

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1.99	1.99		2.99	2.99						1.00	1.99	2.99	2.99	
CO2		2.97	1.98	1.98	1.98								2.97	1.98	
CO3	0.99	2.96	1.98		0.99							0.99	1.98	1.98	
CO4	1.98	2.97	1.98	1.98									0.99	1.98	
CO5				0.99							1.98	0.99			
CO6				1.98							1.98		1.98	1.98	
PO Attainment From Course	1.65	2.72	1.98	1.98	1.99	0.00	0.00	0.00	0.00	0.00	1.65	1.32	2.18	2.18	0.00
% of PO Attainment From Course	55.08	90.74	65.90	66.05	66.17	0.00	0.00	0.00	0.00	0.00	54.96	44.09	72.64	72.63	0.00



 Mrs. D.A. Alone Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS403: Computer Organization and Architecture	

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
1	13	30
2	15	28
3	20	30
4	18	28
5	20	28
6	15	28
7	25	28
8	27	28
9	25	26
10	17	26
11	18	28
12	18	28
13	18	28
14	16	30
15	16	30
16	21	28
17	19	22
18	21	28
19	23	30
20	25	30
21	9	AB
22	12	26
23	17	30
24	21	30
25	22	30
26	27	10
27	27	20
28	19	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
29	24	22
30	25	30
31	21	30
32	22	30
33	22	30
34	17	30
35	26	30
36	21	30
37	16	30
38	25	28
39	15	28
40	22	30
41	19	30
42	21	30
43	24	30
44	21	30
45	27	30
46	20	30
47	15	28
48	19	30
49	23	30
50	15	30
51	19	26
52	23	28
53	18	28
54	AB	26
55	15	30
56	23	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
57	24	30
58	25	30
59	17	30
60	23	30
61	20	30
62	23	30
63	23	28
64	25	28
65	AB	28
66	18	28
67	16	28
68	23	28
69	22	28
70	19	28

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
71	19	28
72	20	28
73	22	28
74	18	26
75	21	28
76	24	24
77	-	-
78	-	-
79	-	-
80		
81	-	-
82	-	-
83	-	-
84	-	-
85	-	-

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Threshold %	60	
Threshold Marks	18	18
No. of Students Above Threshold Marks	56	74
Total No. of Students in Class	84	
CO Wise Average Percentage Attainment*	66.67	88.10
Attainment Level**	2	3

CO	Average Attainment Level**	*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3
CO1	2	
CO2	2	
CO3	2	
CO4	3	
CO5	3	
CO6	3	

 Dr. Rahul P Mirajkar Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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ESE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS403: Computer Organization and Architecture	

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	NA	NA
SN		NA	NA
1636	56	NA	NA
1637	59	NA	NA
1638	53	NA	NA
1639	53	NA	NA
1640	45	NA	NA
1641	56	NA	NA
1642	56	NA	NA
1643	56	NA	NA
1644	53	NA	NA
1645	56	NA	NA
1646	53	NA	NA
1647	36	NA	NA
1648	48	NA	NA
1649	45	NA	NA
1650	53	NA	NA
1651	50	NA	NA
1652	59	NA	NA
1653	62	NA	NA
1654	50	NA	NA
1655	59	NA	NA
1656	56	NA	NA
1657	59	NA	NA
1658	62	NA	NA
1659	50	NA	NA
1660	62	NA	NA
1661	56	NA	NA
1662	56	NA	NA
1663	48	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	NA	NA
SN		NA	NA
1664	50	NA	NA
1665	50	NA	NA
1666	50	NA	NA
1667	50	NA	NA
1668	53	NA	NA
1669	53	NA	NA
1670	50	NA	NA
1671	67	NA	NA
1672	64	NA	NA
1673	64	NA	NA
1674	64	NA	NA
1675	62	NA	NA
1676	62	NA	NA
1677	64	NA	NA
1678	64	NA	NA
1679	62	NA	NA
1680	59	NA	NA
1681	62	NA	NA
1682	56	NA	NA
1683	56	NA	NA
1684	64	NA	NA
1685	62	NA	NA
1686	64	NA	NA
1687	56	NA	NA
1688	64	NA	NA
1689	59	NA	NA
1690	62	NA	NA
1691	62	NA	NA



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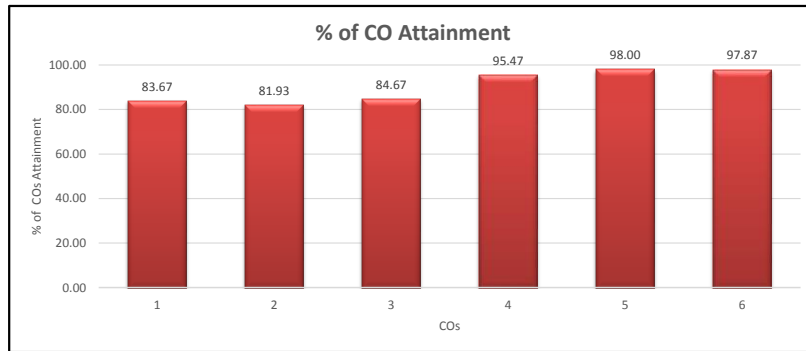
PRINCIPAL

Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

Attainment of COs

Program: CSE		PCC-CS403: COA		Class: SY		Semester IV		Academic Year: 2021-22	
SN	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW	Attainment Level Weighted Average	(Course End Survey)		
	Weightage	0.25	0.5	NA	NA				
CO1	Recapitulate the history of computer system and the basic concepts of computer architecture and organization	2	3	NA	NA	2.50	2.55	2.51	83.67
CO2	Understand the concept of I/O organization	2	3	NA	NA	2.50	2.29	2.46	81.93
CO3	Apply the different algorithms to perform arithmetic operations	2	3	NA	NA	2.50	2.70	2.54	84.67
CO4	Articulate the design issues in the development of processor	3	3	NA	NA	3.00	2.32	2.86	95.47
CO5	Conceptualize instruction level parallelism	3	3	NA	NA	3.00	2.70	2.94	98.00
CO6	Understand the concept of memory techniques	3	3	NA	NA	3.00	2.68	2.94	97.87

Overall Attainment=0.8*Direct+0.2*Indirect



 Dr. Rahul P Mirajkar Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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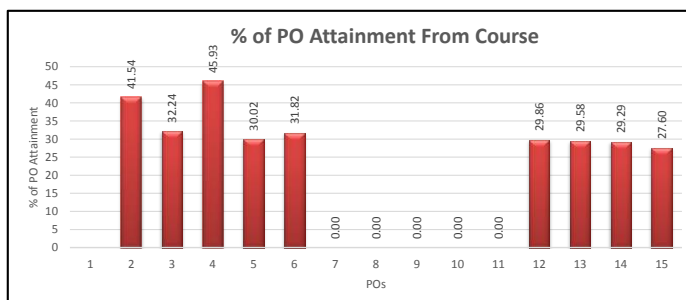
PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

Attainment of POs

Program: CSE	PCC-CS403: COA	Class: SY	Semester IV	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.51	2										1	1	1	1	
CO2	2.46	1											1	1	1	
CO3	2.54			1	1								1			1
CO4	2.86		1	2	1	1						1	1			1
CO5	2.94		1										1	1		1
CO6	2.94	1											1	1		

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	1.67										0.84	0.84	0.84	0.84	
C02	0.82											0.82	0.82	0.82	
C03			0.85	0.85								0.85			0.85
C04		0.95	1.91	0.95	0.95						0.95	0.95			0.95
C05		0.98										0.98	0.98		0.98
C06	0.98											0.98	0.98		
PO Attainment From Course	1.25	0.97	1.38	0.90	0.95	0.00	0.00	0.00	0.00	0.00	0.90	0.89	0.88	0.83	0.93
% of PO Attainment From Course	41.54	32.24	45.93	30.02	31.82	0.00	0.00	0.00	0.00	0.00	29.86	29.58	29.29	27.60	30.90



 Dr. Rahul P Mirajkar Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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PRINCIPAL **Dr. Vijay Ghorpade** M.E., Ph. D. (Computer)

COURSE EXIT SURVEY

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS403: Computer Organization and Architecture	

Name of Student: _____

Roll NO: _____

After the completion of the course PCC-CS403: Computer Organization and Architecture Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Recapitulate the history of computer system and the basic concepts of computer architecture and organization

Rate _____

CO2 Q2. Understand the concept of I/O organization

Rate _____

CO3 Q3. Apply the different algorithms to perform arithmetic operations

Rate _____

CO4 Q4. Articulate the design issues in the development of processor

Rate _____

CO5 Q5. Conceptualize instruction level parallelism

Rate _____

CO6 Q6. Understand the concept of memory techniques

Rate _____

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

Faculty Sign

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS403: Computer Organization and Architecture	

Roll No	PRN	CO1	CO2	CO3	CO4	CO5	CO6
1	2020074038	3	2	3	2	3	2
2	2020073988	2	3	2	3	2	3
3	2020074138	3	2	3	2	3	3
4	2020074151	2	3	3	2	3	3
5	2020074493	3	2	3	2	3	3
6	2020074002	2	2	2	3	2	3
7	2020074511	3	2	3	2	3	3
8	2020073987	2	3	2	3	2	3
9	2021074081	3	2	3	2	3	2
10	2020074706	2	3	3	2	3	3
11	2020074508	3	2	3	2	3	3
12	2020074015	2	3	2	3	2	3
13	2020073992	3	2	3	2	3	2
14	2021074079	2	2	2	3	2	3
15	2020074058	3	2	3	2	3	2
16	2020074132	2	3	3	2	3	3
17	2020074516	3	2	3	2	3	3
18	2020074021	2	3	2	3	2	3
19	2020074500	3	2	3	2	3	3
20	2020074153	2	3	2	3	2	3
21	2020074128	3	2	3	2	3	3
22	2021074076	2	3	3	2	3	3
23	2020074517	3	2	3	2	3	3
24	2020074127	2	3	2	3	3	3
25	2020074029	3	2	3	2	3	2
26	2020074008	2	3	3	3	3	3
27	2021074074	3	2	3	2	3	2
28	2021074075	2	2	3	2	3	3
29	2020074024	3	2	3	2	3	3
30	2020074502	2	2	2	3	2	3
31	2020073995	3	2	3	2	3	2
32	2021074084	2	2	2	3	2	3
33	2020073999	3	2	3	2	3	2
34	2020074156	2	2	3	2	3	3
35	2020074026	3	2	3	3	3	3
36	2020073982	2	3	3	3	2	3
37	2021074078	3	2	3	3	3	2
38	2020073990	2	3	2	3	2	3
39	2020074491	3	2	3	2	3	2
40	2020074507	2	2	3	2	3	3
41	2020073984	3	2	3	2	3	3
42	2020074040	2	3	2	3	2	3
43	2020074496	3	2	3	2	3	2
44	2020074498	3	3	2	3	2	3
45	2020074134	3	2	3	2	3	2
46	2020074056	2	3	3	2	3	3

47	2020074049	3	3	3	2	3	3
48	2020074133	3	2	2	3	2	3
49	2021074077	3	2	3	2	3	2
50	2020074139	3	2	2	3	2	3
51	2020074483	3	2	3	2	3	2
52	2020074018	3	2	3	2	3	3
53	2020074509	3	2	3	2	3	3
54	2020074033	2	3	2	3	2	3
55	2020074005	3	2	3	2	3	2
56	2020074146	2	3	2	3	2	3
57	2020073978	3	2	3	2	3	2
58	2020074708	2	3	3	2	3	3
59	2021074080	3	2	3	2	3	3
60	2020073983	2	3	2	3	2	3
61	2020074044	3	2	3	2	3	2
62	2020073986	2	2	2	2	2	3
63	2020074149	3	2	3	2	3	2
64	2020074512	2	2	3	2	3	3
65	2020074144	3	2	3	2	3	3
66	2020074147	2	2	2	2	2	2
67	2020074155	3	2	3	2	3	2
68	2020074707	2	2	2	2	2	2
69	2020074136	3	2	3	2	3	2
70	2020074130	2	2	3	2	3	3
71	2020074135	3	2	3	2	3	2
72	2020074121	2	2	2	3	2	3
73	2020074150	2	2	2	3	2	3
74	2020074075	3	2	3	2	3	2
75	2020074063	2	3	3	2	3	3
76	2020074060	3	2	3	2	3	3
		194	174	205	176	205	204
		2.55	2.29	2.70	2.32	2.70	2.68
Average Indirect Attainment		2.54					



Faculty Sign



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PRINCIPAL
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M.E., Ph. D. (Computer)

CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class:SY	Semester IV
Program: Computer Science and Engineering	PCC-CS-404 : Operating System I	

Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3	CO	CO1, CO2	CO3
Marks	30	30	Marks	30	30
Roll Number			Roll Number		
31	24	21	72	25	21
1	25	19	74	18	15
2	20	16	24	22	18
3	27	18	25	20	17
4	22	19	26	24	15
5	23	21	73	23	20
6	20	19	67	19	21
7	25	21	27	22	21
8	27	24	28	21	16
75	25	22	29	27	19
9	23	22	30	28	15
10	21	21	70	29	14
11	20	20	32	27	16
12	20	19	33	26	21
71	17	16	34	21	16
13	20	21	35	21	14
14	22	21	36	22	16
15	21	20	37	21	18
16	20	18	38	23	14
17	18	15	39	15	13
64	26	23	40	15	14
18	26	21	41	24	21
19	23	19	76	18	16
68	23	17	42	22	21
20	23	16	43	25	21
22	18	14	45	28	21
23	20	20	44	25	16
66	18	21	63	24	22



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PRINCIPAL
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ESE Result Analysis: Attainment of COs

Academic Year:2021-22	Class:SY	Semester IV
Program: Computer Science and Engineering	PCC-CS-404 : Operating System I	

Exam	ESE	TW
CO	CO1, CO2, CO3	
Marks	70	25
PRN		
2020074834	64	20
2019076789	64	21
2020074835	67	19
2020074813	70	20
2019087947	70	21
2019076552	70	21
2020074811	67	20
2019076471	70	22
2019076556	70	22
2019076575	62	20
2020074830	67	21
2018087115	56	23
2020074819	56	23
2019076570	59	22
2019081154	59	20
2019076571	70	20
2019076564	64	21
2020074827	64	22
2019076543	64	21
2019076547	53	20
2020074826	59	18
2020074831	59	21
2020074820	59	22
2019076545	64	21
2019076549	39	22
2020074810	42	20
2019076561	45	21
2019076542	53	20

Exam	ESE	TW
CO	CO1, CO2, CO3	
Marks	70	25
PRN		
2019076541	67	21
2019076562	67	21
2018087079	67	22
2020074823	62	20
2019076569	67	23
2018087126	67	21
2020075111	62	21
2019076587	64	23
2019076579	62	21
2019087948	59	22
2020074825	56	22
2019076559	53	21
2019076585	36	19
2018087033	53	20
2020074821	42	24
2019081152	53	24
2018087117	56	21
2018087088	50	22
2019076546	36	20
2019076558	48	20
2019076560	59	22
2018087034	64	22
2019076578	45	20
2019076565	36	26
2020074829	48	19
2020074836	56	21
2019076583	48	23
2019076586	45	20

Exam	ESE		TW
CO	CO1, CO2, CO3		
Marks	70		25
PRN			
2019076554	50		23
2019076550	45		18
2019076538	53		16
2020074816	42		22
2019076567	36		21
2020074824	36		20
2019076572	42		20
2019076590	53		20
2019076589	62		19
2019076576	67		20
2019076574	70		20
2019076566	64		20
2018087059	56		21
2019081149	59		22
2020074815	42		21

Exam	ESE		TW
CO	CO1, CO2, CO3		
Marks	70		25
PRN			
2019076543	70		21
2020074833	70		22
2019076557	50		21
2019076553	50		20
2019074312	42		23

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3		
Marks	70	NA	25
Threshold %	40	NA	40
Threshold Marks	28	NA	10
No. of Students Above Threshold Marks	76	NA	76
Total No. of Students in Class	76		
CO Wise Average Percentage Attainment*	100.00	NA	100.00
Attainment Level**	3	NA	3

CO	Average Attainment Level**		
	ESE	OE/POE	TW
CO1	3	NA	3
CO2	3	NA	3
CO3	3	NA	3
CO4	3	NA	3
CO5	3	NA	3
CO6	3	NA	3

* Calculate CO wise Percentage Attainment Level Manually

** Enter the level of Attainment as per Below Range

0%- 33 % = 1

34%-66% =2

67%-100%=3

 Mr. P .A. Kharade Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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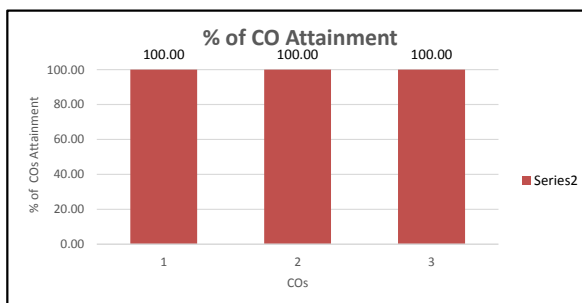
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PRINCIPAL
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Attainment of COs

Program: Computer Science and Engineering		PCC-CS-404 : Operating System I			Class:Second Year		Semester IV	Academic Year: 2021-22	
Sr. No.	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW	Attainment Level Weighted Average	(Course End Survey)		
	Weightage	0.25	0.5	NA	0.25				
CO1	To make the students understand basic concepts of operatingsystem	3	3	NA	3	3.00	3	3.00	100.00
CO2	To expose the students to various functions of the Operating system and theirusage	3	3	NA	3	3.00	3	3.00	100.00
CO3	Apply software and developmenttechniques	3	3	NA	3	3.00	3	3.00	100.00

Overall Attainment=0.8*Direct+0.2*Indirect



 Mr. P. A. Kharade Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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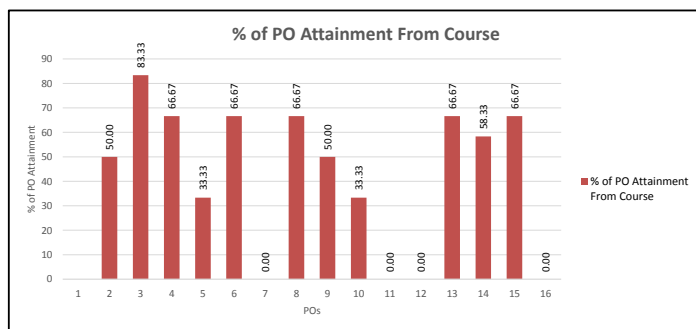
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		PRINCIPAL Dr. Vijay Ghorpade M.E., Ph. D. (Computer)	

Attainment of POs

Program: Computer Science and Engineering	PCC-CS-404 : Operating System I	Class:SECOND Year	Semester IV	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3.00	2	2										2	2		
CO2	3.00	2	3	2		2	2							1	2	
CO3	3.00	1	3	2		3	2	2	2	1		2	2	2	2	
CO4	3.00	1	2	2	1	1	2	2	1			2	2	2	2	

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.00	2.00										2.00	2.00		
CO2	2.00	3.00	2.00		2.00	2.00							1.00	2.00	
CO3	1.00	3.00	2.00		3.00	2.00	2.00	2.00	1.00		2.00	2.00	2.00	2.00	
CO4	1.00	2.00	2.00	1.00	1.00	2.00	2.00	1.00			2.00	2.00	2.00	2.00	
PO Attainment From Course	1.50	2.50	2.00	1.00	2.00	0.00	2.00	1.50	1.00	0.00	0.00	2.00	1.75	2.00	0.00
% of PO Attainment From Course	50.00	83.33	66.67	33.33	66.67	0.00	66.67	50.00	33.33	0.00	0.00	66.67	58.33	66.67	0.00



 Mr. P. A. Kharade Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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PRINCIPAL

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COURSE EXIT SURVEY

Academic Year:2021-22	Class: Third Year	Semester V
Program: CSE	PCC-CS-404 : Operating System I	

Name of Student: _____ Roll NO: _____

After the completion of the course PCC-CS-404 : Operating System I Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Describe the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state-of-the-art cloud computing

Rate_____

CO2 Q2. Explain the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc

Rate_____

CO3 Q3. Collaboratively research on the state of the art (and open problems) in cloud computing.

Rate_____

CO4 Q4. Identify problems, and explain, analyze, and evaluate various cloud computing solutions.

Rate_____

CO5 Q5. Choose the appropriate technologies, algorithms, and approaches for the related issues.

Rate_____

CO6 Q6. Display new ideas and innovations in cloud computing.

Rate_____

CO	CO1	CO2	CO3	CO4		
Rate Given						


Faculty Sign

Academic Year:2021-22		Class: Third Year			Semester V
Program: CSE		PCC-CS-404 : Operating System I			
Roll No	PRN	C01	CO2	CO3	CO4
1	2020074834	2	3	2	3
2	2019076789	3	3	3	3
3	2020074835	3	3	3	3
4	2020074813	3	2	3	3
5	2019087947	3	3	3	3
6	2019076552	3	2	3	3
7	2020074811	3	3	3	1
8	2019076471	2	3	3	3
9	2019076556	3	3	3	3
10	2019076575	2	2	3	3
11	2020074830	3	3	3	2
12	2018087115	3	3	2	3
13	2020074819	3	2	3	3
14	2019076570	3	2	2	2
15	2019081154	3	3	3	3
16	2019076571	3	3	3	3
17	2019076564	3	3	3	3
18	2020074827	3	3	3	3
19	2019076543	3	3	3	3
20	2019076547	3	3	3	3
21	2020074826	3	3	3	3
22	2020074831	3	3	3	3
23	2020074820	3	3	2	3
24	2019076545	2	2	3	3
25	2019076549	3	3	3	3
26	2020074810	3	3	3	3
27	2019076561	3	3	3	3
28	2019076542	3	3	3	3
29	2019076541	3	3	3	2
30	2019076562	3	2	2	3
31	2018087079	2	3	3	3
32	2020074823	3	3	3	3
33	2019076569	3	3	3	3
34	2018087126	3	3	3	3
35	2020075111	3	3	3	2
36	2019076587	3	3	2	3
37	2019076579	3	3	3	3
38	2019087948	3	3	3	3
39	2020074825	3	3	3	3
40	2019076559	3	3	3	3

41	2019076585	3	3	2	3
42	2018087033	3	3	3	3
43	2020074821	3	3	3	2
44	2019081152	3	3	3	3
45	2018087117	3	3	3	3
46	2018087088	3	3	3	3
47	2019076546	3	3	3	3
48	2019076558	3	3	3	3
49	2019076560	3	3	3	3
50	2018087034	3	3	3	3
51	2019076578	3	3	3	3
52	2019076565	3	3	3	3
53	2020074829	3	3	3	3
54	2020074836	3	3	3	3
55	2019076583	3	3	3	3
56	2019076586	3	3	3	3
57	2019076554	3	3	2	2
58	2019076550	3	3	3	3
59	2019076538	3	3	3	3
60	2020074816	3	3	3	3
61	2019076567	3	3	3	3
62	2020074824	3	3	3	3
63	2019076572	3	3	3	3
64	2019076590	3	3	3	3
65	2019076589	3	3	3	3
66	2019076576	3	3	3	3
67	2019076574	3	3	3	3
68	2019076566	3	3	3	3
69	2018087059	3	3	3	3
70	2019081149	3	3	3	3
71	2020074815	3	3	3	2
72	2019076543	3	3	3	3
73	2020074833	3	3	3	3
74	2019076557	3	3	3	3
75	2019076553	3	3	3	3
76	2019074312	3	3	3	3
77	2019081151	3	3	3	3
78	2017050539	3	3	3	3
79	2017050865	3	3	3	3
80	2017053265	3	3	3	3
81	2017050835	3	3	3	3
82	2017050857	3	3	3	3
83	2017050510	3	3	3	2
84	2019076577	3	3	3	2
		247	245	244	241
		2.94	2.92	2.90	2.87
Average Indirect Attainment		2.91			

Faculty Sign



BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

FOUNDER & CHANCELLOR

Dr. Patangrao Kadam

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PRINCIPAL

Dr. Vijay Ghorpade

M.E., Ph. D. (Computer)

CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS405: Software Engineering	

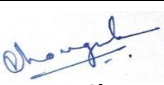
Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6	CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30	Marks	30	30
Roll Number			Roll Number		
1	25	30	29	18	30
2	14	30	30	29	30
3	18	30	31	20	28
4	22	28	32	26	30
5	23	30	33	25	30
6	19	30	34	21	30
7	27	30	35	22	30
8	28	30	36	17	30
9	27	30	37	25	30
10	21	28	38	27	30
11	21	28	39	15	30
12	27	30	40	28	30
13	25	30	41	17	30
14	25	30	42	23	30
15	24	30	43	26	30
16	22	30	44	26	30
17	14	28	45	27	30
18	27	30	46	25	30
19	21	30	47	10	30
20	28	30	48	21	30
21	15	AB	49	26	30
22	17	24	50	19	30
23	21	28	51	17	30
24	24	28	52	25	30
25	22	30	53	18	30
26	23	30	54	AB	30
27	26	30	55	21	30
28	24	30	56	22	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Roll Number		
57	25	30
58	22	30
59	25	30
60	21	30
61	21	30
62	25	30
63	27	30
64	26	30
65	AB	30
66	23	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Roll Number		
67	23	30
68	28	30
69	24	30
70	29	30
71	21	30
72	26	30
73	25	30
74	19	30
75	27	30
76	25	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Threshold %	80	
Threshold Marks	24	24
No. of Students Above Threshold Marks	39	75
Total No. of Students in Class	76	
CO Wise Average Percentage Attainment*	51.32	98.68
Attainment Level**	2	3

CO	Average Attainment Level**	*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3
CO1	2	
CO2	2	
CO3	2	
CO4	3	
CO5	3	
CO6	3	

 Mr. V. D. Chougule Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

ESE Result Analysis: Attainment of COs

Academic Year:2021-22	Class:SY	Semester IV
Program: CSE	PCC-CS405: Software Engineering	

Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4,CO5,CO6			CO	CO1, CO2, CO3, CO4,CO5,CO6		
Marks	70	NA	25	Marks	70	NA	25
PRN				PRN			
2020073990	56	NA	NA	2021074074	43	NA	NA
2020074038	53	NA	NA	2021074075	53	NA	NA
2020073988	62	NA	NA	2020074024	56	NA	NA
2020074138	56	NA	NA	2020074502	56	NA	NA
2020074151	53	NA	NA	2020073995	56	NA	NA
2020074493	53	NA	NA	2021074084	48	NA	NA
2020074002	48	NA	NA	2020074150	50	NA	NA
2020074511	50	NA	NA	2020073999	50	NA	NA
2020073987	50	NA	NA	2020074156	56	NA	NA
2021074081	50	NA	NA	2020074026	53	NA	NA
2020074706	53	NA	NA	2020073982	48	NA	NA
2020074508	45	NA	NA	2021074078	48	NA	NA
2020074015	48	NA	NA	2020074491	50	NA	NA
2020073992	53	NA	NA	2020074507	53	NA	NA
2021074079	50	NA	NA	2020073984	53	NA	NA
2020074058	56	NA	NA	2020074040	48	NA	NA
2020074132	53	NA	NA	2020074496	45	NA	NA
2020074516	53	NA	NA	2020074498	50	NA	NA
2020074021	53	NA	NA	2020074134	59	NA	NA
2020074500	50	NA	NA	2020074056	42	NA	NA
2020074135	53	NA	NA	2020074049	53	NA	NA
2020074153	48	NA	NA	2020074133	53	NA	NA
2020074128	45	NA	NA	2021074077	50	NA	NA
2021074076	56	NA	NA	2020074139	53	NA	NA
2020074517	50	NA	NA	2020074483	53	NA	NA
2020074029	53	NA	NA	2020074018	50	NA	NA
2020074008	59	NA	NA	2020074509	56	NA	NA
2020074121	56	NA	NA	2020074075	59	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4,CO5,CO6		
Marks	70	50	25
PRN			
2020074033	56	NA	NA
2020074005	56	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4,CO5,CO6		
Marks	70	50	25
PRN			
2020073986	42	NA	NA
2020074149	50	NA	NA

2020074063	50	NA	NA
2020074146	50	NA	NA
2020073978	56	NA	NA
2020074708	48	NA	NA
2021074080	45	NA	NA
2020074060	45	NA	NA
2020073983	45	NA	NA
2020074044	53	NA	NA

2020074512	53	NA	NA
2020074144	53	NA	NA
2020074147	45	NA	NA
2020074155	42	NA	NA
2020074707	50	NA	NA
2020074136	53	NA	NA
2020074130	45	NA	NA
2020074127		NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	NA	NA
Threshold %	72	NA	NA
Threshold Marks	50	NA	NA
No. of Students Above Threshold Marks	55	NA	NA
Total No. of Students in Class	76	NA	NA
CO Wise Average Percentage Attainment*	72.37	NA	NA
Attainment Level**	3	NA	NA

CO	Average Attainment Level**			*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3
	ESE	OE/POE	TW	
CO1	3	NA	NA	
CO2	3	NA	NA	
CO3	3	NA	NA	
CO4	3	NA	NA	
CO5	3	NA	NA	
CO6	3	NA	NA	

 Mr. Vijay D. Chougule Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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COURSE EXIT SURVEY

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS405: Software Engineering	

Name of Student: _____

Roll NO: _____

After the completion of the course PCC-CS405: Software Engineering Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Comprehend systematic methodologies of SDLC (Software Development Life Cycle)

Rate_____

CO2 Q2. Discriminate competing and feasible system requirements indicating correct real world problem scope and prepare stepwise system conceptual model using stakeholder analysis and requirement validation.

Rate_____

CO3 Q3. Prepare SRS document for a project

Rate_____

CO4 Q4. Apply software design and development techniques

Rate_____

CO5 Q5. Develop a quality software project through effective team-building, planning, scheduling and risk

Rate_____

CO6 Q6. Understand testing methods at each phase of SDLC. To tackle real world problems in domain of data mining, information retrieval, computer vision, linguistics and bioinformatics, etc.

Rate_____

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						



Faculty Sign

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS405: Software Engineering	

Roll No	PRN	CO1	CO2	CO3	CO4	CO5	CO6
1	2020074038	3	2	3	2	3	2
2	2020073988	2	3	2	3	2	3
3	2020074138	3	2	3	2	3	2
4	2020074151	2	3	3	2	3	3
5	2020074493	3	2	3	2	3	3
6	2020074002	2	2	2	3	2	3
7	2020074511	3	2	3	2	3	2
8	2020073987	2	3	2	3	2	3
9	2021074081	3	2	3	2	3	2
10	2020074706	2	3	3	2	3	3
11	2020074508	3	2	3	2	3	3
12	2020074015	2	3	2	3	2	3
13	2020073992	3	2	3	2	3	2
14	2021074079	2	2	2	3	2	3
15	2020074058	3	2	3	2	3	2
16	2020074132	2	3	3	2	3	3
17	2020074516	3	2	3	2	3	3
18	2020074021	2	3	2	3	2	3
19	2020074500	3	2	3	2	3	2
20	2020074153	2	3	2	3	2	3
21	2020074128	3	2	3	2	3	2
22	2021074076	2	3	3	2	3	3
23	2020074517	3	2	3	2	3	3
24	2020074127	2	3	2	3	2	3
25	2020074029	3	2	3	2	3	2
26	2020074008	2	3	2	3	2	3
27	2021074074	3	2	3	2	3	2
28	2021074075	2	2	3	2	3	3
29	2020074024	3	2	3	2	3	3
30	2020074502	2	2	2	3	2	3
31	2020073995	3	2	3	2	3	2
32	2021074084	2	2	2	3	2	3
33	2020073999	3	2	3	2	3	2
34	2020074156	2	2	3	2	3	3
35	2020074026	3	2	3	2	3	3
36	2020073982	2	3	2	3	2	3
37	2021074078	3	2	3	2	3	2
38	2020073990	2	3	2	3	2	3
39	2020074491	3	2	3	2	3	2
40	2020074507	2	2	3	2	3	3
41	2020073984	3	2	3	2	3	3
42	2020074040	2	3	2	3	2	3
43	2020074496	3	2	3	2	3	2
44	2020074498	2	3	2	3	2	3
45	2020074134	3	2	3	2	3	2

46	2020074056	2	3	3	2	3	3
47	2020074049	3	2	3	2	3	3
48	2020074133	2	2	2	3	2	3
49	2021074077	3	2	3	2	3	2
50	2020074139	2	2	2	3	2	3
51	2020074483	3	2	3	2	3	2
52	2020074018	2	2	3	2	3	3
53	2020074509	3	2	3	2	3	3
54	2020074033	2	3	2	3	2	3
55	2020074005	3	2	3	2	3	2
56	2020074146	2	3	2	3	2	3
57	2020073978	3	2	3	2	3	2
58	2020074708	2	3	3	2	3	3
59	2021074080	3	2	3	2	3	3
60	2020073983	2	3	2	3	2	3
61	2020074044	2	2	3	2	3	2
62	2020073986	2	2	2	2	2	3
63	2020074149	2	2	2	2	2	2
64	2020074512	2	2	3	2	3	3
65	2020074144	3	2	3	3	2	2
66	2020074147	2	3	2	2	2	2
67	2020074155	3	2	3	2	3	2
68	2020074707	2	2	2	2	2	2
69	2020074136	3	2	3	2	3	2
70	2020074130	2	2	3	2	3	3
71	2020074135	3	2	3	2	3	2
72	2020074121	2	2	2	3	2	3
73	2020074150	2	2	2	3	2	3
74	2020074075	3	2	3	2	3	2
75	2020074063	2	3	3	2	3	3
76	2020074060	3	2	3	2	3	3
		188	174	202	175	201	199
		2.47	2.29	2.66	2.30	2.64	2.62
Average Indirect Attainment		2.50					

Faculty Sign



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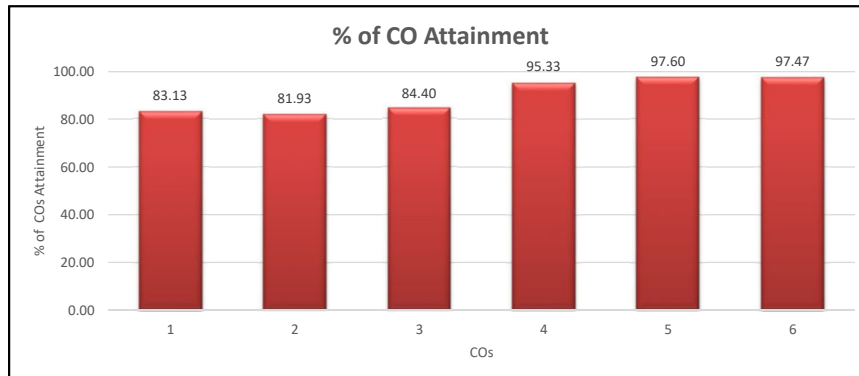
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PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

Attainment of COs

Program: CSE		PCC-CS405: Software Engineering			Class: SY		Semester IV	Academic Year: 2021-22	
SN	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW	Attainment Level Weighted Average			
	Weightage	0.5	0.5	NA	NA		(Course End Survey)		
CO1	Comprehend systematic methodologies of SDLC (Software Development Life Cycle)	2	3	NA	NA	2.50	2.47	2.49	83.13
CO2	Discriminate competing and feasible system requirements indicating correct real world problem scope and prepare stepwise system	2	3	NA	NA	2.50	2.29	2.46	81.93
CO3	Prepare SRS document for a project	2	3	NA	NA	2.50	2.66	2.53	84.40
CO4	Apply software design and development techniques	3	3	NA	NA	3.00	2.30	2.86	95.33
CO5	Develop a quality software project through effective team-building, planning, scheduling and risk	3	3	NA	NA	3.00	2.64	2.93	97.60
CO6	Understand testing methods at each phase of SDLC. To tackle real world problems in domain of data mining, information retrieval, computer vision, linguistics and bioinformatics, etc.	3	3	NA	NA	3.00	2.62	2.92	97.47

Overall Attainment=0.8*Direct+0.2*Indirect



 Mr. Vijay D. Chougule Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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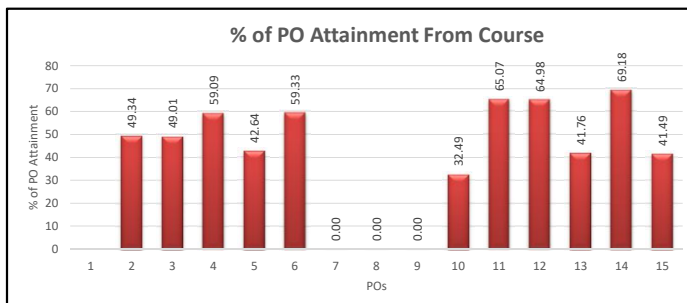
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Attainment of POs

Program: CSE	PCC-CS405: Software Engineering	Class: SY	Semester IV	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.49	3	2		1								1	3	1	
CO2	2.46	1	3	2	1	3										
CO3	2.53	2	1		1											
CO4	2.86	1	2	2		2								2	1	
CO5	2.93	2	1		2						2		2	2		
CO6	2.92	1	1		2	1				1		2	1	2	2	

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.49	1.66		0.83								0.83	2.49	0.83	
CO2	0.82	2.46	1.64	0.82	2.46										
CO3	1.69	0.84		0.84											
CO4	0.95	1.91	1.91		1.91								1.91	0.95	
CO5	1.95	0.98		1.95						1.95		1.95	1.95		
CO6	0.97	0.97		1.95	0.97				0.97		1.95	0.97	1.95	1.95	
PO Attainment From Course	1.48	1.47	1.77	1.28	1.78	0.00	0.00	0.00	0.97	1.95	1.95	1.25	2.08	1.24	0.00
% of PO Attainment From Course	49.34	49.01	59.09	42.64	59.33	0.00	0.00	0.00	32.49	65.07	64.98	41.76	69.18	41.49	0.00



 Mr. Vijay D. Chougule Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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PRINCIPAL
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CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: TY	Semester V
Program: CSE	PCC-CS406: Object Oriented Programming	

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
1	23	23
2	16	23
3	22	18
4	25	23
5	21	18
6	19	23
7	20	18
8	20	20
9	16	24
10	15	19
11	16	23
12	15	23
13	12	23
14	16	23
15	NA	NA
16	22	21
17	17	18
18	21	21
19	15	21
20	14	21
21	16	23
22	22	23
23	23	22
24	17	23
25	21	21
26	19	17
27	23	21
28	21	22

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
29	16	23
30	18	23
31	19	20
32	19	21
33	15	18
34	AB	23
35	20	20
36	22	22
37	15	21
38	23	23
39	26	23
40	23	23
41	12	13
42	17	23
43	25	22
44	14	22
45	25	22
46	20	22
47	17	20
48	17	18
49	14	15
50	21	20
51	13	17
52	18	21
53	16	18
54	15	23
55	17	22
56	15	20

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
57	13	21
58	15	15
59	15	17
60	13	19
61	13	22
62	16	20
63	17	22
64	19	23
65	17	21
66	22	20
67	25	21
68	21	20
69	20	19
70	19	26

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
71	18	20
72	15	22
73	23	21
74	20	21
75	14	21

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Threshold %	60	
Threshold Marks	12	12
No. of Students Above Threshold Marks	72	74
Total No. of Students in Class	84	
CO Wise Average Percentage Attainment*	85.71	88.10
Attainment Level**	3	3

CO	Average Attainment Level**	*Calculate CO wise Percentage Attainment Level Manually **Enter the level of Attainment as per Below Range 0%- 33 % = 1 34%-66% =2 67%-100%=3
CO1	3	
CO2	3	
CO3	3	
CO4	3	
CO5	3	

 Ms.Sana M.Bagban Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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ESE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	PCC-CS406: Object Oriented Programming	

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	NA	50	50
RN			
2020073990	NA	29	34
2020074038	NA	34	44
2020073988	NA	32	40
2020074138	NA	32	42
2020074151	NA	35	44
2020074493	NA	20	42
2020074002	NA	42	33
2020074511	NA	35	42
2020073987	NA	29	46
2021074081	NA	30	38
2020074706	NA	25	40
2020074508	NA	30	36
2020074015	NA	27	34
2020073992	NA	28	44
2021074079	NA	28	42
2020074058	NA	30	44
2020074132	NA	28	44
2020074516	NA	27	40
2020074021	NA	20	40
2020074500	NA	35	38
2020074135	NA	28	42
2020074153	NA	31	40
2020074128	NA	30	38
2021074076	NA	31	40
2020074517	NA	30	38
2020074029	NA	27	40
2020074008	NA	36	38
2020074121	NA	38	36

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	NA	50	50
RN			
2021074074	NA	42	36
2021074075	NA	41	36
2020074024	NA	20	36
2020074502	NA	34	20
2020073995	NA	42	42
2021074084	NA	43	36
2020074150	NA	40	42
2020073999	NA	38	44
2020074156	NA	27	40
2020074026	NA	37	44
2020073982	NA	34	44
2021074078	NA	37	38
2020074491	NA	39	42
2020074507	NA	40	34
2020073984	NA	35	45
2020074040	NA	35	45
2020074496	NA	20	40
2020074498	NA	20	42
2020074134	NA	35	44
2020074056	NA	34	42
2020074049	NA	39	38
2020074133	NA	38	36
2021074077	NA	42	38
2020074139	NA	38	42
2020074483	NA	29	36
2020074018	NA	43	34
2020074509	NA	38	42
2020074075	NA	30	38

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	50
RN			
2020074033	NA	38	45
2020074005	NA	45	34
2020074063	NA	40	38
2020074146	NA	38	42
2020073978	NA	32	40
2020074708	NA	28	36
2021074080	NA	28	38
2020074060	NA	44	40
2020073983	NA	41	36
2020074044	NA	41	40
2020073986	NA	40	38
2020074149	NA	35	36
2020074512	NA	29	34
2020074144	NA	33	36

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	50
RN			
2020074147	NA	40	36
2020074155	NA	35	38
2020074707	NA	37	42
2020074136	NA	38	35
2020074130	NA	42	37

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	50
Threshold %	40	40	40
Threshold Marks	28	20	20
No. of Students Above Threshold Marks		70	74
Total No. of Students in Class		75	75
CO Wise Average Percentage Attainment*		93.33	98.67
Attainment Level**		3	3

CO	Average Attainment Level**		
	ESE	OE/POE	TW
CO1		3	3
CO2		3	3
CO3		3	3
CO4		3	3
CO5		3	3

* Calculate CO wise Percentage Attainment Level Manually
 ** Enter the level of Attainment as per Below Range
 0%- 33 % = 1
 34%-66% =2
 67%-100%=3

 Ms. Sana M. Bagban Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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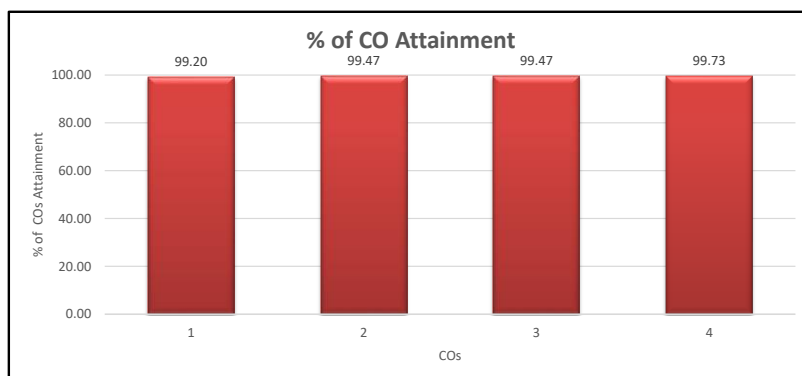
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Attainment of COs

Program: CSE		PCC- CS406: Object Oriented		Class: SY		Semester IV		Academic Year: 2021-22	
SN	CO Statement	Direct Assessment				Indirect Assessment (Course End Survey)	Overall Attainment on Scale of 3	Overall Percentage Attainment	
		CIE	ESE	OE/POE	TW				
	Weigtage	NA	NA	0.5	0.5	Attainment Level Weighted Average			
CO1	Use the characteristics of an object-oriented programming language in aprogram		0	3	3	3.00	2.88	2.98	99.20
CO2	Use the basic object-oriented design principles in computer problemsolving.		0	3	3	3.00	2.92	2.98	99.47
CO3	Use the basic principle of software engineering in managing complex software project.		0	3	3	3.00	2.92	2.98	99.47
CO4	program with advanced features of C++ programming language.		0	3	3	3.00	2.96	2.99	99.73
CO5	Develop program in unix programming environment.		0	3	3	3.00	2.92	2.98	99.47

Overall Attainment=0.8*Direct+0.2*Indirect



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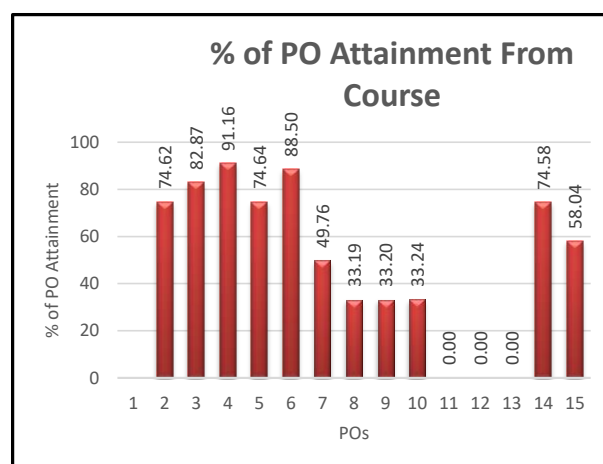
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

Attainment of POs

Program: CSE	PCC-CS406: Object Oriented Programming	Class: SY	Semester -IV	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.98	2	3	3	1		1							3	1	
CO2	2.98	3	3	3	3	2	1	1						2	2	
CO3	2.98	1	2	3	2	3	2	1	1					2	2	
CO4	2.99	3	2	2	3	3	2	1	1	1				2	2	
CO5	2.98	2	2	1	1	2	1	1						2	1	

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1.98	2.98	2.98	0.99		0.99							2.98	0.99	
CO2	2.98	2.98	2.98	2.98	1.99	0.99	0.99						1.99	1.99	
CO3	0.99	1.99	2.98	1.99	2.98	1.99	0.99	0.99					1.99	1.99	
CO4	2.99	1.99	1.99	2.99	2.99	1.99	1.00	1.00	1.00				1.99	1.99	
PO Attainment From Course	2.24	2.49	2.73	2.24	2.66	1.49	1.00	1.00	1.00			0.00	2.24	1.74	0.00
% of PO Attainment From Course	74.62	82.87	91.16	74.64	88.50	49.76	33.19	33.20	33.24	0.00	0.00	0.00	74.58	58.04	0.00



 Ms. Sana M. Bagban Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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Academic Year:2021-22		Class: B TECH				
Program: CSE		PCC- CS406 : Object Oriented Programming				
Roll No	PRN	C01	C02	C03	C04	C05
1	2020073990	2	3	3	3	3
2	2020074038	3	2	3	3	2
3	2020073988	3	3	3	3	3
4	2020074138	3	3	3	3	3
5	2020074151	3	2	3	3	2
6	2020074493	3	3	2	3	3
7	2020074002	2	2	3	3	2
8	2020074511	2	3	3	3	3
9	2020073987	3	3	3	3	3
10	2021074081	3	3	3	3	3
11	2020074706	2	3	3	3	3
12	2020074508	3	3	3	3	3
13	2020074015	3	3	3	3	3
14	2020073992	3	3	3	3	3
15	2021074079	3	3	3	3	3
16	2020074058	3	3	3	3	3
17	2020074132	3	3	3	3	3
18	2020074516	3	3	3	2	3
19	2020074021	3	3	3	3	3
20	2020074500	3	2	2	3	2
21	2020074135	3	3	3	3	3
22	2020074153	3	3	2	3	3
23	2020074128	3	3	3	3	3
24	2021074076	3	3	2	3	3
25	2020074517	3	3	3	3	3
26	2020074029	3	3	3	3	3
27	2020074008	3	3	3	3	3
28	2020074121	3	3	3	3	3
29	2021074074	3	2	3	3	2
30	2021074075	2	3	3	3	3
31	2020074024	3	3	3	3	3
32	2020074502	2	3	3	3	3
33	2020073995	3	3	3	3	3
34	2021074084	3	3	3	3	3
35	2020074150	3	3	3	3	3
36	2020073999	2	3	3	3	3
37	2020074156	3	3	3	3	3
38	2020074026	3	3	3	3	3
39	2020073982	3	3	3	3	3
40	2021074078	2	3	3	3	3

41	2020074491	3	3	3	3	3
42	2020074507	3	3	3	3	3
43	2020073984	3	3	3	3	3
44	2020074040	3	3	3	3	3
45	2020074496	3	3	3	3	3
46	2020074498	3	3	3	3	3
47	2020074134	3	3	2	3	3
48	2020074056	3	3	3	2	3
49	2020074049	3	3	3	3	3
50	2020074133	3	3	2	3	3
51	2021074077	3	3	3	3	3
52	2020074139	2	3	3	3	3
53	2020074483	3	3	3	3	3
54	2020074018	3	3	3	3	3
55	2020074509	3	3	3	3	3
56	2020074075	3	3	3	3	3
57	2020074033	3	3	3	3	3
58	2020074005	3	3	3	3	3
59	2020074063	3	3	3	3	3
60	2020074146	3	3	3	3	3
61	2020073978	3	3	3	3	3
62	2020074708	3	3	3	3	3
63	2021074080	3	3	3	2	3
64	2020074060	3	3	3	3	3
65	2020073983	3	3	3	3	3
66	2020074044	3	3	3	3	3
67	2020073986	3	3	3	3	3
68	2020074149	3	3	3	3	3
69	2020074512	3	2	3	3	2
70	2020074144	3	3	3	3	3
71	2020074147	3	3	3	3	3
72	2020074155	3	3	3	3	3
73	2020074707	3	3	3	3	3
74	2020074136	3	3	3	3	3
75	2020074130	3	3	3	3	3
		216	219	219	222	219
		2.88	2.92	2.92	2.96	2.92

Average Indirect Attainment	1.95
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Ms.Sana M. Bagban
Course Coordinator



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COURSE EXIT SURVEY

Academic Year:2021-22		Class: SY	Semester IV
Program: CSE		PCC-CS406: Object Oriented Programming	

Name of Student: _____ Roll no----

After the completion of the course PCC- CS406 : Object Oriented Programming Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Use the characteristics of an object-oriented programming language in a program

Rate _____

CO2 Q2. Use the basic object-oriented design principles in computer problemsolving.

Rate _____

CO3 Q3. Use the basic principles of software engineering in managing complex software project.

Rate _____

CO4 Q4. Program with advanced features of the C++ programming language.

Rate _____

CO5 Q5. Develop programs in the LINUX programming environment.

Rate _____

CO	CO1	CO2	CO3	CO4
Rate Given				


Faculty Sign



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ESE Result Analysis: Attainment of COs

Academic Year:2021-22		Semester IV
Program: CSE		

Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4			CO	CO1, CO2, CO3, CO4		
Marks	70	NA	25	Marks	70	NA	25
RN				RN			
2020073990		33	40	2021074074		44	40
2020074038		34	40	2021074075		44	40
2020073988		36	38	2020074024		26	42
2020074138		32	40	2020074502		28	42
2020074151		38	42	2020073995		44	43
2020074493		30	42	2021074084		28	40
2020074002		38	40	2020074150		42	41
2020074511		40	41	2020073999		40	44
2020073987		40	41	2020074156		34	40
2021074081		28	40	2020074026		46	42
2020074706		30	42	2020073982		40	43
2020074508		38	45	2021074078		40	42
2020074015		40	45	2020074491		34	38
2020073992		36	44	2020074507		36	40
2021074079		31	40	2020073984		34	45
2020074058		38	40	2020074040		34	45
2020074132		32	40	2020074496		33	42
2020074516		38	42	2020074498		38	43
2020074021		30	41	2020074134		30	40
2020074500		38	42	2020074056		30	40
2020074135		44	38	2020074049		32	44
2020074153		38	40	2020074133		28	42
2020074128		40	41	2021074077		44	40
2021074076		38	40	2020074139		42	30
2020074517		40	42	2020074483		36	39
2020074029		38	40	2020074018		40	40
2020074008		40	42	2020074509		44	42
2020074121		38	40	2020074075		38	40

Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4			CO	CO1, CO2, CO3, CO4		
Marks	70	50	25	Marks	70	50	25
RN				RN			
2020074033		28	40	2020074147		40	42
2020074005		26	37	2020074155		36	40
2020074063		40	35	2020074707		38	42
2020074146		46	42	2020074136		28	42
2020073978		32	42	2020074130		40	40
2020074708		36	40	2020074127			
2021074080		40	30				
2020074060		38	40				
2020073983		38	38				
2020074044		28	40				
2020073986		45	40				
2020074149		28	40				
2020074512		36	42				
2020074144		41	42				

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	NA	50	50
Threshold %	NA	40	40
Threshold Marks	NA	20	20
No. of Students Above Threshold Marks	NA	76	76
Total No. of Students in Class	NA	76	76
CO Wise Average Percentage Attainment*	NA	100	100.00
Attainment Level**	NA	3	3

CO	Average Attainment Level**		
	ESE	OE/POE	TW
CO1	NA	3	3
CO2	NA	3	3
CO3	NA	3	3
CO4	NA	3	3

 Ms.A. M. Yadav Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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Near Chitranagari, Kolhapur - 416013 (MS)
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Tel.No.: (0231) 2638893, 2638894, Fax : 2636050
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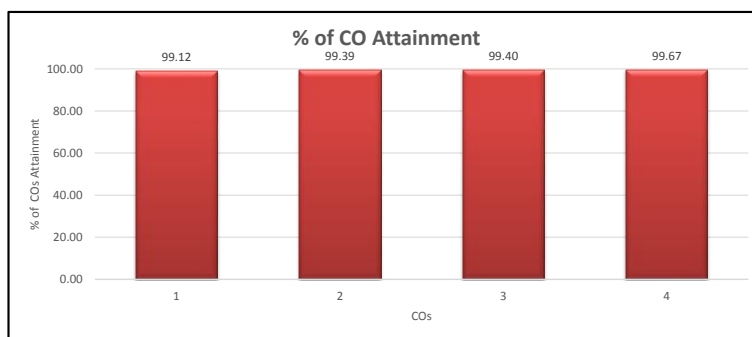
FOUNDER & CHANCELLOR
Dr. Patangrao Kadam
M.A., LL. B., Ph. D.

PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

Attainment of COs

Program: CSE		Mini Project (PW-CS407)			Class: SY		Semester IV	Academic Year: 2021-22	
SN	CO Statement	Direct Assessment					Indirect Assessment	Overall Attainment on Scale of 3	Overall Percentage Attainment
		CIE	ESE	OE/POE	TW	Attainment Level Weighted Average			
	Weightage	NA	NA	0.25	0.25		(Course End Survey)		
CO1	Define the problemstatement			3	3	3.00	2.87	2.97	99.12
CO2	Organize, Plan and prepare the detailed projectactivities.			3	3	3.00	2.91	2.98	99.39
CO3	Construct Flowchart, System Architecture based on the projectdescription			3	3	3.00	2.91	2.98	99.40
CO4	Implement the solution for theirproblem.			3	3	3.00	2.95	2.99	99.67

Overall Attainment=0.8*Direct+0.2*Indirect



 Ms.A. M. Yadav Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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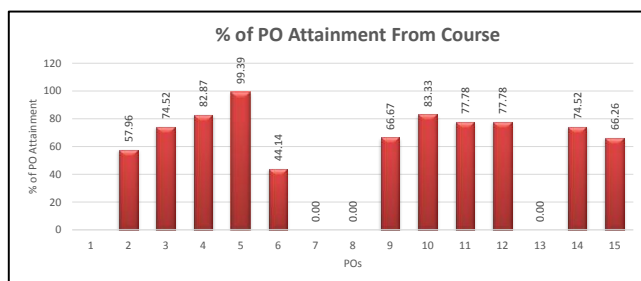
PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

Attainment of POs

Program: CSE	Mini Project (PW-CS407)	Class: SY	Semester IV	Academic Year: 2021-22
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CO-PO Mapping																
CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.97	3	3	1	3	1								3	2	
CO2	2.98	1	2	3	3	2								2	2	
CO3	2.98	1	2	3	3	1								2	2	
CO4	2.99	2	2	3	3	0								2	2	

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.97	2.97	0.99	2.97	0.99								2.97	1.98	
CO2	0.99	1.99	2.98	2.98	1.99				2.00	2.00	2.00		1.99	1.99	
CO3	0.99	1.99	2.98	2.98	0.99					2.00	2.00		1.99	1.99	
CO4	1.99	1.99	2.99	2.99				2.00	3.00	3.00	3.00		1.99	1.99	
PO Attainment From Course	1.74	2.24	2.49	2.98	1.32			2.00	2.50	2.33	2.33		2.24	1.99	
% of PO Attainment From Course	57.96	74.52	82.87	99.39	44.14	0.00	0.00	66.67	83.33	77.78	77.78	0.00	74.52	66.26	0.00



 Ms. A. M. Yadav Course Coordinator	 Mrs. S. M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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PRINCIPAL

Dr. Vijay Ghorpade

M.E., Ph. D. (Computer)

COURSE EXIT SURVEY

Academic Year:2021-22	Class: SY	Semester IV
Program: CSE	Mini Project (PW-CS407)	

Name of Student: _____

Roll NO: _____

After the completion of the course Mini Project (PW-CS407) Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Define the problem statement

Rate _____

CO2 Q2. Organize, Plan and prepare the detailed project activities.

Rate _____

CO3 Q3. Construct Flowchart, System Architecture based on the project description

Rate _____

CO4 Q4. Implement the solution for their problem.

Rate _____

CO5 Q5. Develop programs in the LINUX programming environment.

Rate _____

CO	CO1	CO2	CO3	CO4
Rate Given				

Faculty Sign

Academic Year:2021-22			Class: SY SEM IV		
Program: CSE			Mini Project (PW-CS407)		
Roll No	PRN	C01	CO2	CO3	CO4
1	2020073990	2	3	3	3
2	2020074038	3	2	3	3
3	2020073988	3	3	3	3
4	2020074138	3	3	3	3
5	2020074151	3	2	3	3
6	2020074493	3	3	2	3
7	2020074002	2	2	3	3
8	2020074511	2	3	3	3
9	2020073987	3	3	3	3
10	2021074081	3	3	3	3
11	2020074706	2	3	3	3
12	2020074508	3	3	3	3
13	2020074015	3	3	3	3
14	2020073992	3	3	3	3
15	2021074079	3	3	3	3
16	2020074058	3	3	3	3
17	2020074132	3	3	3	3
18	2020074516	3	3	3	2
19	2020074021	3	3	3	3
20	2020074500	3	2	2	3
21	2020074135	3	3	3	3
22	2020074153	3	3	2	3
23	2020074128	3	3	3	3
24	2021074076	3	3	2	3
25	2020074517	3	3	3	3
26	2020074029	3	3	3	3
27	2020074008	3	3	3	3
28	2020074121	3	3	3	3
29	2021074074	3	2	3	3
30	2021074075	2	3	3	3
31	2020074024	3	3	3	3
32	2020074502	2	3	3	3
33	2020073995	3	3	3	3
34	2021074084	3	3	3	3
35	2020074150	3	3	3	3
36	2020073999	2	3	3	3
37	2020074156	3	3	3	3
38	2020074026	3	3	3	3
39	2020073982	3	3	3	3
40	2021074078	2	3	3	3
41	2020074491	3	3	3	3
42	2020074507	3	3	3	3
43	2020073984	3	3	3	3
44	2020074040	3	3	3	3

45	2020074496	3	3	3	3
46	2020074498	3	3	3	3
47	2020074134	3	3	2	3
48	2020074056	3	3	3	2
49	2020074049	3	3	3	3
50	2020074133	3	3	2	3
51	2021074077	3	3	3	3
52	2020074139	2	3	3	3
53	2020074483	3	3	3	3
54	2020074018	3	3	3	3
55	2020074509	3	3	3	3
56	2020074075	3	3	3	3
57	2020074033	3	3	3	3
58	2020074005	3	3	3	3
59	2020074063	3	3	3	3
60	2020074146	3	3	3	3
61	2020073978	3	3	3	3
62	2020074708	3	3	3	3
63	2021074080	3	3	3	2
64	2020074060	3	3	3	3
65	2020073983	3	3	3	3
66	2020074044	3	3	3	3
67	2020073986	3	3	3	3
68	2020074149	3	3	3	3
69	2020074512	3	2	3	3
70	2020074144	3	3	3	3
71	2020074147	3	3	3	3
72	2020074155	3	3	3	3
73	2020074707	3	3	3	3
74	2020074136	3	3	3	3
75	2020074130	3	3	3	3
76	2020074127	2	2	2	2
		218	221	221	224
		2.87	2.91	2.91	2.95

Average Indirect Attainment		2.91
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Faculty Sign



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M.E., Ph. D. (Computer)

CIE Result Analysis: Attainment of COs

Academic Year:2021-22	Class: sy	Semester IV
Program: CSE	MC- CS 408 : Environmental Studies	

Exam	Project	
CO	CO1, CO2, CO3,CO4,CO5,CO6,CO7,CO8	
Marks	30	30
Roll Number		
1	23	
2	23	
3	23	
4	23	
5	23	
6	23	
7	23	
8	23	
9	23	
10	23	
11	23	
12	23	
13	23	
14	27	
15	23	
16	23	
17	21	
18	21	
19	25	
20	22	
21	23	
22	23	
23	23	
24	22	
25	22	
26	24	
27	23	
28	24	

Exam	Project	
CO	CO1, CO2, CO3,CO4,CO5,CO6,CO7,CO8	
Marks	30	30
Roll Number		
29	24	
30	24	
31	23	
32	24	
33	22	
34	27	
35	27	
36	22	
37	26	
38	22	
39	23	
40	22	
41	22	
42	23	
43	25	
44	23	
45	23	
46	23	
47	20	
48	23	
49	24	
50	23	
51	21	
52	22	
53	25	
54	23	
55	22	
56	23	



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ESE Result Analysis: Attainment of COs

Academic Year:2021-22				Class:S Y				Semester IV			
Program: CSE				MC- CS408 : Environmental Studies							
Exam	ESE	OE/POE		Exam	ESE	OE/POE					
CO	CO1, CO2, CO3, CO4, CO5,CO6			CO	CO1, CO2, CO3, CO4, CO5,CO6						
Marks	70	NA		Marks	70	NA					
PRN				PRN							
2020073990	62	NA		2021074074	64	NA					
2020074038	62	NA		2021074075	59	NA					
2020073988	62	NA		2020074024	56	NA					
2020074138	62	NA		2020074502	58	NA					
2020074151	53	NA		2020073995	59	NA					
2020074493	50	NA		2021074084	62	NA					
2020074002	64	NA		2020074150	67	NA					
2020074511	64	NA		2020073999	62	NA					
2020073987	64	NA		2020074156	50	NA					
2021074081	62	NA		2020074026	64	NA					
2020074706	62	NA		2020073982	59	NA					
2020074508	56	NA		2021074078	56	NA					
2020074015	56	NA		2020074491	59	NA					
2020073992	56	NA		2020074507	59	NA					
2021074079	56	NA		2020073984	62	NA					
2020074058	56	NA		2020074040	59	NA					
2020074132	59	NA		2020074496	62	NA					
2020074516	62	NA		2020074498	62	NA					
2020074021	62	NA		2020074134	56	NA					
2020074500	59	NA		2020074056	59	NA					
2020074135	67	NA		2020074049	64	NA					
2020074153	64	NA		2020074133	62	NA					
2020074128	59	NA		2021074077	53	NA					
2021074076	56	NA		2020074139	59	NA					
2020074517	62	NA		2020074483	59	NA					
2020074029	64	NA		2020074018	62	NA					
2020074008	64	NA		2020074509	64	NA					
2020074121	64	NA		2020074075	62	NA					

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2020074033	53	NA	19
2020074005	48	NA	19
2020074063	62	NA	19
2020074146	AB	NA	20
2020073978	56	NA	20
2020074708	67	NA	19
2021074080	62	NA	21
2020074060	62	NA	23
2020073983	56	NA	19
2020074044	56	NA	23
2020073986	48	NA	19
2020074149	53	NA	24
2020074512	64	NA	19
2020074144	64	NA	19

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	NA	
Threshold %	40	NA	
Threshold Marks	28	NA	
No. of Students Above Threshold Marks	76	NA	
Total No. of Students in Class	76	NA	
CO Wise Average Percentage Attainment*	100.00	NA	
Attainment Level**	3	NA	3

CO	Average Attainment Level**	
	ESE	OE/POE
CO1	3	NA
CO2	3	NA
CO3	3	NA
CO4	3	NA
CO5	3	NA
CO6	3	NA
CO7	3	NA
CO8	3	NA

*Calculate CO wise Percentage Attainment Level Manually

**Enter the level of Attainment as per Below Range

0%- 33 % = 1

34%-66% =2

67%-100%=3

 Ms. G.S.Ghorpade Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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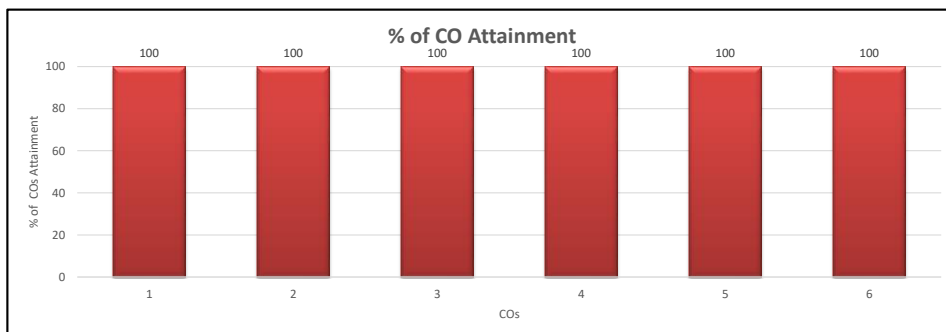
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Attainment of COs

Program: Mech		MC-CS408 : Environmental Studies		Class:S.Y. B TECH		Semester IV	Academic Year: 2021-22		
SN	CO Statement	Direct Assessment				Indirect Assessment (Course end survey)	Overall Attainment on Scale	Overall Percentage Attainment	
	Weigtage	CIE	ESE	OE/POE	TW				Attainment Level Weighted Average
C01	Get acquainted with the scope and multidisciplinary nature of environmental science with the overall aim of sustainable development.	3	3			3.00	3	3.00	100.00
C02	Understand the importance of ecosystems in the view of its con	3	3			3.00	3	3.00	100.00
C03	Know the values of natural resources with associated problems for sustainable lifestyles	3	3			3.00	3	3.00	100.00
C04	Familiarise the basics of Biodiversity and concerned issues in th	3	3			3.00	3	3.00	100.00
C05	Make aware of the pollution issues with its mitigation measures	3	3			3.00	3	3.00	100.00
C06	Understand the social issues accompanied by environmental issues in the light of role of Indian culture and movements in conservation of the environment	3	3			3.00	3	3.00	100.00
C07	Recognize the significance of policies and legislation in environmental protection.	3	3	NA		3.00	2.63	2.93	100.00
C08	Acquire problem solving attitude through actual experiential learning in the form of	3	3	NA		3.00	3	3.00	100.00
Overall Attainment=0.8*Direct+0.2*Indirect									



 Ms. G.S.Ghorpade Course coordinator	 Mrr.S.M.Mulla HOD	 Dr. Vijay R. Ghorpade Principal
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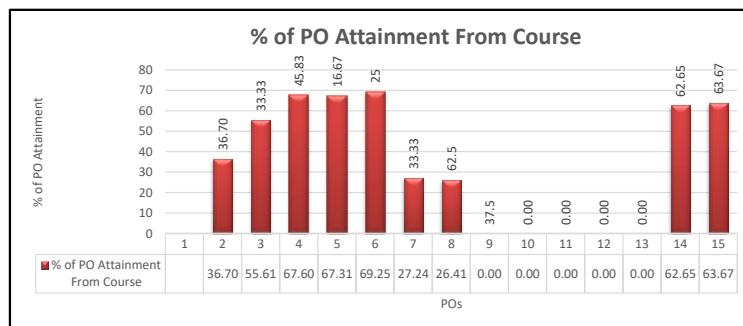
Program: cse	cse209 : Environmental Studies	Class:sy	Semester IV	Academic Year: 2021-22
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CO-PO Mapping

CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3.00	2	1	3	1	1	1	3	1	2	1	1	1	1	1	
CO2	3.00	1	0	0		1	1	2	1	1		2	1		1	
CO3	3.00	1	1	1		1	1	3	1	1	1	1	1	1	1	
CO4	3.00	1	1			1	1	2	1	1	1		1		1	
CO5	3.00	1	1	2	1	1	1	2	1	1	2	1	1	1	1	
CO6	3.00	1	1			1	1	2	1	1	1		1		1	
CO7	2.93	1	1		1		1	1	1						1	
CO8	3.00	1	2	1			1	1	1	1		1	1	1	2	

CO-PO Attainment

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.00	1.00	3.00	1.00	1.00	1.00	3.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	
CO2	1.00	0.00	0.00	0.00	1.00	1.00	2.00	1.00	1.00	0.00	2.00	1.00	0.00	1.00	
CO3	1.00	1.00	1.00	0.00	0.00	1.00	1.00	2.00	1.00	1.00	0.00	1.00	1.00	1.00	
CO4	1.00	1.00	0.00	0.00	1.00	1.00	2.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	
CO5	1.00	1.00	2.00	1.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	
CO6	1.00	1.00	2.00	1.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	
CO7	1.00	1.00	2.00	1.00	1.00	1.00	2.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	
CO8	1.00	2.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	2.00	
PO Attainment	1.13	1.00	1.38	0.50	0.75	1.00	1.88	1.13	1.13	1.13	0.88	1.00	0.75	1.13	
% of PO Attainment	37.50	33.33	45.83	16.67	25.00	33.33	62.50	37.50	33.33	37.50	29.17	33.33	25.00	37.50	



 Ms. G.S. Ghorpade Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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COURSE EXIT SURVEY

Academic Year:2021-22	Class: sy	Semester IV
Program: cse	cse209 : Environmental Studies	

Name of Student: _____ Roll NO: _____

After the completion of the course MC-ME209 : Environmental Studies Do you think following

CO1 Q1. Describe the scope and multidisciplinary nature of environmental science

Rate_____

CO2 Q2. Explain the importance of ecosystems in the view of its conservation.

Rate_____

CO3 Q3. Do you understand the values of natural resources with associated problems for

Rate_____

CO4 Q4. Identify the basics of Biodiversity and concerned issues in the context of Western Ghats

Rate_____

CO5 Q5. Describe the pollution issues with its mitigation measures

Rate_____

CO6 Q6. : Describe the social issues accompanied by environmental issues in the light of role of

Rate_____

CO7 Q7. : Explain the significance of policies and legislation in environmental protection

Rate

CO8 Q8.: Acquire problem solving attitude through actual experimental learning in the form of

Rate-

CO	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8
Rate Given								


Faculty Sign

Academic Year:2021-22	Class: sy	Semester IV
Program: cse	CSE209 : Environmental Studies	

Roll No	PRN	C01	CO2	CO3	CO4	CO5	CO6	CO7	CO8
1	2020074523	3	3	3	3	3	3	3	3
2	2020074518	3	3	3	3	3	3	2	3
3	2020074521	3	3	3	3	3	3	3	3
4	2020074520	3	3	3	3	3	3	2	3
5	2020074527	3	3	3	3	3	3	3	3
6	2020074525	3	3	3	3	3	3	3	3
7	2021074112	3	3	3	3	3	3	3	3
8	2021075993	3	3	3	3	3	3	3	3
9	2021075995	3	3	3	3	3	3	2	3
10	2021076037	3	3	3	3	3	3	3	3
11	2021075989	3	3	3	3	3	3	2	3
12	2021075998	3	3	3	3	3	3	2	3
13	2021076011	3	3	3	3	3	3	3	3
14	2021076017	3	3	3	3	3	3	3	3
15	2021076036	3	3	3	3	3	3	2	3
16	2021075963	3	3	3	3	3	3	3	3
17	2021075939	3	3	3	3	3	3	2	3
18	2021075942	3	3	3	3	3	3	2	3
19	2021076029	3	3	3	3	3	3	3	3
20	2021076044	3	3	3	3	3	3	3	3
21	2021075978	3	3	3	3	3	3	3	3
22	2021074763	3	3	3	3	3	3	3	3
23	2021077268	3	3	3	3	3	3	3	3
24	2021075952	3	3	3	3	3	3	3	3
25	2021076012	3	3	3	3	3	3	3	3
26	2021076290	3	3	3	3	3	3	3	3
27	2021076379	3	3	3	3	3	3	3	3
28	2021076009	3	3	3	3	3	3	3	3
29	2021075983	3	3	3	3	3	3	3	3
30	2021076292	3	3	3	3	3	3	2	3
31	2021074110	3	3	3	3	3	3	3	3

32	2021074275	3	3	3	3	3	3	2	3
33	2021075023	3	3	3	3	3	3	3	3
34	2021076041	3	3	3	3	3	3	3	3
35	2021075968	3	3	3	3	3	3	3	3
36	2021076018	3	3	3	3	3	3	3	3
37	2021076031	3	3	3	3	3	3	3	3
38	2021076285	3	3	3	3	3	3	3	3
39	2021074741	3	3	3	3	3	3	3	3
40	2021074156	3	3	3	3	3	3	3	3
41	2021076287	3	3	3	3	3	3	3	3
42	2021074755	3	3	3	3	3	3	3	3
43	2021076024	3	3	3	3	3	3	3	3
44	2021076286	3	3	3	3	3	3	3	3
45	2021075950	3	3	3	3	3	3	3	3
46	2021074109	3	3	3	3	3	3	3	3
47	2021076276	3	3	3	3	3	3	3	3
		141	141	141	141	141	141	131	141
		3	3	3	3	3	3	2.63	3
Average Indirect Attainment			2.95						


 Faculty Sign