



**BHARATI VIDYAPEETH'S  
COLLEGE OF ENGINEERING, KOLHAPUR**

FOUNDER & CHANCELLOR

**Dr. Patangrao Kadam**

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

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.bharatividyaapeeth.edu> E- mail : [coekolhapur@bharatividyaapeeth.edu](mailto:coekolhapur@bharatividyaapeeth.edu)

PRINCIPAL

**Dr. Vijay Ghorpade**

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

**CIE Result Analysis: Attainment of COs**


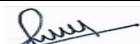


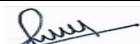


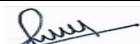

<b>Academic Year:2021-22</b>	<b>Class:Third Year</b>	<b>Semester VI</b>
<b>Program: Computer science and Engineering</b>		<b>PCC-CS501: Information Security</b>

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

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

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
57	22	15
58	20	13
59	23	13
60	26	16
61	30	16
62	24	19
63	18	19
64	19	12
65	22	21
66	18	16
67	24	22
68	18	16
69	14	13
70	18	14
71	16	17

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
72	24	16
73	24	14
74	18	13
75	22	13
76	16	13
77	16	14
78	16	15
79	16	16
80	18	13
81	18	15
82	19	12
83	16	16
84	20	19

Exam	CIE: Mid Term Test	CIE: End Term Test			
CO	CO1, CO2, CO3	CO4, CO5			
Marks	30	30			
Threshold %	40				
Threshold Marks	12	12			
No. of Students Above Threshold Marks	84	84			
Total No. of Students in Class	84				
CO Wise Average Percentage Attainment*	100.00	100.00			
Attainment Level**	3	3			
CO	Average Attainment Level**	<p><b>*Calculate CO wise Percentage Attainment Level Manually</b>  <b>**Enter the level of Attainment as per Below Range</b></p> <p>0%- 33 % = 1  34%-66% =2  67%-100%=3</p>			
CO1	3				
CO2	3				
CO3	3				
CO4	3				
CO5	3				
CO6	3				
<table border="1" style="width:100%; text-align:center;"> <tr> <td style="width:33%;"> Mr. P.A. Kharade Course Coordinator</td> <td style="width:33%;"> Mrs. S.M. Mulla HoD</td> <td style="width:33%;"> Dr. Vijay R. Ghorpade Principal</td> </tr> </table>			 Mr. P.A. Kharade 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**

<b>Academic Year:2021-22</b>	<b>Class:Third Year</b>	<b>Semester VI</b>
<b>Program: Computer Science and Engineering</b>	<b>PCC-CS501: Information Security</b>	

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5		
<b>Marks</b>			25
<b>PRN</b>			
2020074834	67		42
2019076789	62		48
2020074835	67		48
2020074813	67		40
2019087947	64		40
2019076552	62		41
2020074811	59		48
2019076471	62		48
2019076556	56		48
2019076575	59		46
2020074830	56		48
2018087115	62		38
2020074819	67		44
2019076570	59		42
2019081154	59		44
2019076571	64		46
2019076564	59		42
2020074827	59		45
2019076543	64		42
2019076547	64		48
2020074826	67		48
2020074831	67		48
2020074820	64		43
2019076545	62		45
2019076549	62		43
2020074810	67		41
2019076561	59		43
2019076542	62		46

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5		
<b>Marks</b>			25
<b>PRN</b>			
2019076541	59		46
2019076562	62		43
2018087079	62		44
2020074823	64		48
2019076569	62		45
2018087126	62		45
2020075111	67		45
2019076587	59		45
2019076579	59		45
2019087948	64		46
2020074825	67		41
2019076559	56		46
2019076585	64		46
2018087033	62		41
2020074821	67		42
2019081152	64		46
2018087117	64		46
2018087088	64		45
2019076546	67		46
2019076558	64		42
2019076560	62		45
2018087034	64		38
2019076578	59		45
2019076565	64		43
2020074829	67		48
2020074836	67		48
2019076583	64		46
2019076586	64		43




Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5, CO6		
<b>Marks</b>			25
<b>PRN</b>			
2019076554	64		48
2019076550	59		44
2019076538	62		21
2020074816	67		42
2019076567	62		46
2020074824	64		46
2019076572	62		48
2019076590	64		45
2019076589	64		43
2019076576	62		41
2019076574	62		43
2019076566	59		42
2018087059	62		41
2019081149	64		45
2020074815	64		45

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5, CO6		
<b>Marks</b>			25
<b>PRN</b>			
2019076543	64		42
2020074833	67		48
2019076557	59		41
2019076553	59		45
2019074312	62		45
2019081151	62		45
2017050539	64		43
2017050865	64		44
2017053265	64		41
2017050835	64		41
2017050857	64		46
2017050510	62		44
2019076577	64		44

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5		
<b>Marks</b>	70	NA	50
<b>Threshold %</b>	40	NA	40
<b>Threshold Marks</b>	28	NA	20
<b>No. of Students Above Threshold Marks</b>	84	NA	84
<b>Total No. of Students in Class</b>	84	NA	84
<b>CO Wise Average Percentage Attainment*</b>	100.00	NA	100.00
<b>Attainment Level**</b>	3	NA	3

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

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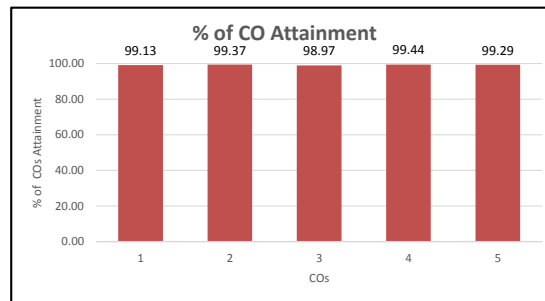
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PRINCIPAL **Dr. Vijay Ghorpade** M.E., Ph. D. (Computer)

**Attainment of COs**

Program: Computer Science and Engineering		PCC-CS501: Information Security			Class:Third Year		Semester VI	Academic Year: 2021-22	
Sr. No.	CO Statement	Direct Assessment				Indirect Assessment (Course End Survey)	Overall Attainment on Scale of 3	Overall Percentage Attainment	
		CIE	ESE	OE/POE	TW				Attainment Level Weighted Average
Weightage				0.5	0.5				
CO1	Understand principles of Crypto-systems.	3	3	0	3	3.00	2.87	2.97	99.13
CO2	Compare and analyze various security services and mechanisms.	3	3	0	3	3.00	2.90	2.98	99.37
CO3	Apply and use the features of PGP, S/MIME, DSA, IPsec, SSL in their profession.	3	3	0	3	3.00	2.85	2.97	98.97
CO4	Take precautions of their personal computing system from possible threats and attacks.	3	3	0	3	3.00	2.92	2.98	99.44
CO5	Explore newer vulnerabilities and provide the solutions to them.	3	3	0	3	3.00	2.89	2.98	99.29

Overall Attainment=0.8\*Direct+0.2\*Indirect



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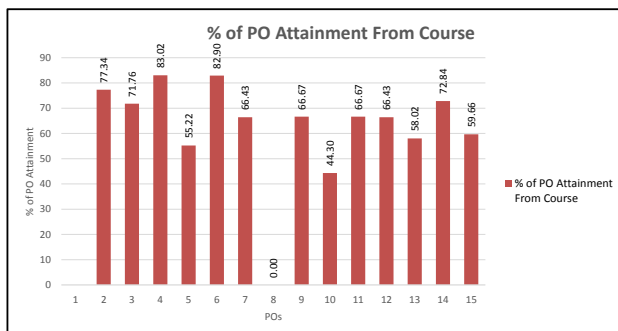
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M.E., Ph. D. (Computer)

**Attainment of POs**

Program: Computer Science and Engineering	PCC-CSS01: Information Security	Class:Third Year	Semester VI	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	2		1								2	3	2	
CO2	2.98	2	3	3	1	3							2	2	2	
CO3	2.97	1	2		2									2	1	
CO4	2.98	3	2		2	2				1					2	
CO5	2.98	3	2		2	3	2			1		2	1	2		
CO6	3.00	3	2	2	2	2	2		2	2	2	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	1.98	1.98		0.99								1.98	2.97	1.98		
CO2	1.99	2.98	2.98	0.99	2.98							1.99	1.99	1.99		
CO3	0.99	1.98		1.98									1.98	0.99		
CO4	2.98	1.99		1.99	1.99				0.99					1.99		
CO5	2.98	1.99		1.99	2.98	1.99			0.99		1.99	0.99	1.99			
CO6	3.00	2.00	2.00	2.00	2.00	2.00		2.00	2.00	2.00	2.00	2.00	2.00	2.00		
PO Attainment From Course	2.32	2.15	2.49	1.66	2.49	1.99	0.00	2.00	1.33	2.00	1.99	1.74	2.19	1.79	0.00	
% of PO Attainment From Course	77.34	71.76	83.02	55.22	82.90	66.43	0.00	66.67	44.30	66.67	66.43	58.02	72.84	59.66	0.00	



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**COURSE EXIT SURVEY**

Academic Year:2021-22	Class:Third Year	Semester VI
Program: CSE	PCC-CS501: Information Security	

Name of Student: \_\_\_\_\_ Roll NO: \_\_\_\_\_

After the completion of the course PCC-CS501: Information Security Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Understand principles of Crypto-systems.

Rate \_\_\_\_\_

CO2 Q2. Compare and analyze various security services and mechanisms.

Rate \_\_\_\_\_

CO3 Q3. Apply and use the features of PGP, S/MIME, DSA, IPSec, SSL in their profession.

Rate \_\_\_\_\_

CO4 Q4. Take precautions of their personal computing system from possible threats and attacks.

Rate \_\_\_\_\_

CO5 Q5. Explore newer vulnerabilities and provide the solutions to them.

Rate \_\_\_\_\_

CO	CO1	CO2	CO3	CO4	CO5
Rate Given					

Faculty Sign

<b>Academic Year:2021-22</b>	<b>Class:Third Year</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>PCC-SS01: Information Security</b>	

<b>Roll No</b>	<b>PRN</b>	<b>C01</b>	<b>C02</b>	<b>C03</b>	<b>C04</b>	<b>C05</b>
1	2020074834	2	3	2	3	2
2	2019076789	3	3	3	3	3
3	2020074835	3	3	3	3	3
4	2020074813	3	2	3	3	3
5	2019087947	3	3	3	3	3
6	2019076552	3	2	3	3	3
7	2020074811	3	3	3	2	3
8	2019076471	2	3	3	3	3
9	2019076556	3	3	3	3	3
10	2019076575	2	2	3	3	3
11	2020074830	3	3	3	2	3
12	2018087115	3	3	2	3	2
13	2020074819	3	2	3	3	3
14	2019076570	3	2	2	2	2
15	2019081154	3	3	3	3	3
16	2019076571	3	3	3	3	3
17	2019076564	3	3	3	3	3
18	2020074827	3	3	3	3	3
19	2019076543	3	3	3	3	3
20	2019076547	3	3	3	3	3
21	2020074826	3	3	3	3	3
22	2020074831	3	3	3	3	3
23	2020074820	2	3	2	3	2
24	2019076545	2	2	3	3	3
25	2019076549	3	3	3	3	3
26	2020074810	3	3	3	3	3
27	2019076561	3	3	3	3	3
28	2019076542	3	3	3	3	3
29	2019076541	3	3	3	2	3
30	2019076562	3	2	2	3	2
31	2018087079	2	3	3	3	3
32	2020074823	3	3	3	3	3
33	2019076569	3	3	3	3	3

34	2018087126	3	3	3	3	3
35	2020075111	3	3	3	2	3
36	2019076587	3	3	2	3	2
37	2019076579	3	3	3	3	3
38	2019087948	3	3	3	3	3
39	2020074825	3	3	3	3	3
40	2019076559	3	3	3	3	3
41	2019076585	3	3	2	3	2
42	2018087033	3	3	3	3	3
43	2020074821	3	3	3	3	3
44	2019081152	3	3	3	3	3
45	2018087117	3	3	3	3	3
46	2018087088	3	3	3	3	3
47	2019076546	3	3	3	3	3
48	2019076558	3	3	3	3	3
49	2019076560	3	3	3	3	3
50	2018087034	3	3	3	3	3
51	2019076578	3	3	3	3	3
52	2019076565	3	3	3	3	3
53	2020074829	3	3	3	3	3
54	2020074836	3	3	3	3	3
55	2019076583	3	3	3	3	3
56	2019076586	3	3	3	3	3
57	2019076554	3	3	2	2	3
58	2019076550	3	3	3	3	3
59	2019076538	3	3	3	3	3
60	2020074816	3	3	3	3	3
61	2019076567	3	3	3	3	3
62	2020074824	3	3	3	3	3
63	2019076572	3	3	3	3	3
64	2019076590	3	3	3	3	3
65	2019076589	3	3	1	3	3
66	2019076576	3	3	3	3	3
67	2019076574	1	3	3	3	1
68	2019076566	3	3	3	3	3
69	2018087059	3	3	1	3	3
70	2019081149	1	2	3	3	3
71	2020074815	3	3	3	2	3
72	2019076543	3	3	3	3	3
73	2020074833	3	3	3	3	3
74	2019076557	3	3	3	3	3
75	2019076553	3	3	3	3	3
76	2019074312	3	3	3	3	3
77	2019081151	3	3	3	3	3
78	2017050539	3	3	3	3	3
79	2017050865	3	3	3	3	3
80	2017053265	3	3	3	3	3
81	2017050835	3	3	3	3	3
82	2017050857	3	3	2	3	3
83	2017050510	2	3	3	3	3
84	2019076577	3	3	3	3	3
		241	244	239	245	243
		<b>2.87</b>	<b>2.90</b>	<b>2.85</b>	<b>2.92</b>	<b>2.89</b>

**Average Indirect Attainment**

**2.89**



Faculty Sign



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**CIE Result Analysis: Attainment of COs**

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester V</b>
<b>Program: CSE</b>	<b>PCC-CS504: System programming</b>	

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

Exam	CIE: Mid Term Test	CIE: End Term Test
<b>CO</b>	CO1, CO2, CO3	CO4, CO5, CO6
<b>Marks</b>	30	30
<b>Roll Number</b>		
29	15	30
30	18	28
31	21	30
32	21	24
33	14	26
34	18	28
35	14	26
36	23	28
37	5	30
38	16	30
39	21	30
40	22	30
41	22	28
42	22	28
43	20	28
44	19	28
45	16	28
46	18	26
47	13	28
48	17	30
49	19	30
50	24	28
51	18	28
52	20	26
53	18	26
54	15	26
55	15	28
56	14	28
<b>Exam</b>	<b>CIE: Mid Term Test</b>	<b>CIE: End Term Test</b>

CO	CO1, CO2, CO3	CO4, CO5,CO6
<b>Marks</b>	30	30
<b>Roll Number</b>		
57	8	28
58	12	30
59	14	30
60	17	26
61	8	28
62	11	28
63	10	28
64	21	30
65	15	30
66	23	26
67	24	30
68	12	30
69	19	28
70	23	30

CO	CO1, CO2, CO3	CO4, CO5,CO6
<b>Marks</b>	30	30
<b>Roll Number</b>		
71	13	30
72	25	30
73	21	30
74	13	30
75	10	28
76	7	28
77	13	30
78	17	30
79	14	30
80	24	30
81	23	30
82	27	30
83	21	26
84	14	30

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5,CO6
<b>Marks</b>	30	30
<b>Threshold %</b>	40	
<b>Threshold Marks</b>	12	12
<b>No. of Students Above Threshold Marks</b>	77	84
<b>Total No. of Students in Class</b>	84	
<b>CO Wise Average Percentage Attainment*</b>	91.67	100
<b>Attainment Level**</b>	3	3

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

 <b>Ms.Sana M.Bagban</b> <b>Course Coordinator</b>	 <b>Mrs. S.M. Mulla</b> <b>HoD</b>	 <b>Dr. Vijay R. Ghorpade</b> <b>Principal</b>
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**PRINCIPAL**  
**Dr. Vijay Ghorpade**  
M.E., Ph. D. (Computer)

**ESE Result Analysis: Attainment of COs**

<b>Academic Year:2021-22</b>	<b>Class:TYCSE</b>	<b>Semester V</b>
<b>Program: CSE</b>	<b>PCC-CS502: System Programming</b>	

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	25	50
PRN			
2020075111	53	20	44
2020074836	53	22	42
2020074835	56	24	38
2020074834	56	22	37
2020074833	56	22	48
2020074831	50	22	46
2020074830	53	23	38
2020074829	56	23	40
2020074827	53	23	40
2020074826	50	22	47
2020074825	50	21	31
2020074824	56	21	31
2020074823	50	22	47
2020074821	53	20	46
2020074820	53	24	31
2020074819	53	22	30
2020074816	53	23	40
2020074815	34	21	38
2020074813	53	22	34
2020074811	53	22	48
2020074810	59	22	30
2019087948	56	19	47
2019087947	53	19	31
2019081154	39	24	35
2019081152	50	19	47
2019081151	48	21	33
2019081149	48	20	30
2019076789	56	24	40

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	25	50
PRN			
2019076590	48	20	40
2019076589	56	24	42
2019076587	48	20	40
2019076586	48	23	37
2019076585	53	19	46
2019076583	50	19	38
2019076579	50	19	35
2019076578	59	19	32
2019076577	59	19	32
2019076576	45	18	31
2019076575	42	21	36
2019076574	42	23	37
2019076572	50	22	34
2019076571	50	20	33
2019076570	48	19	32
2019076569	48	19	33
2019076567	59	24	47
2019076566	48	19	39
2019076565	53	18	45
2019076564	53	19	37
2019076562	50	20	43
2019076561	53	22	34
2019076560	62	19	38
2019076559	48	23	47
2019076558	50	19	30
2019076557	48	19	31
2019076556	50	24	48
2019076554	50	24	35






Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	25	50
PRN			
2019076553	53	22	33
2019076552	53	19	38
2019076550	45	24	30
2019076549	53	24	39
2019076547	50	24	48
2019076546	56	19	40
2019076545	53	23	43
2019076543	53	23	32
2019076543	53	23	32
2019076542	50	20	32
2019076541	42	24	36
2019076538	39	24	45
2019076471	50	19	41
2019074312	62	22	39

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	25	50
PRN			
2018087126	56	56	35
2018087117	50	50	37
2018087115	42	42	30
2018087088	56	56	31
2018087079	42	42	32
2018087059	48	48	30
2018087034	48	48	30
2018087033	45	45	31
2017053265	59	59	32
2017050865	59	59	33
2017050857	50	50	32
2017050835	48	48	32
2017050539	56	56	30
2017050510	50	50	30

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3,CO4,CO5,CO6		
Marks	70	25	50
Threshold %	40	40	40
Threshold Marks	28	10	20
No. of Students Above Threshold Marks	84	84	84
Total No. of Students in Class	84	84	84
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

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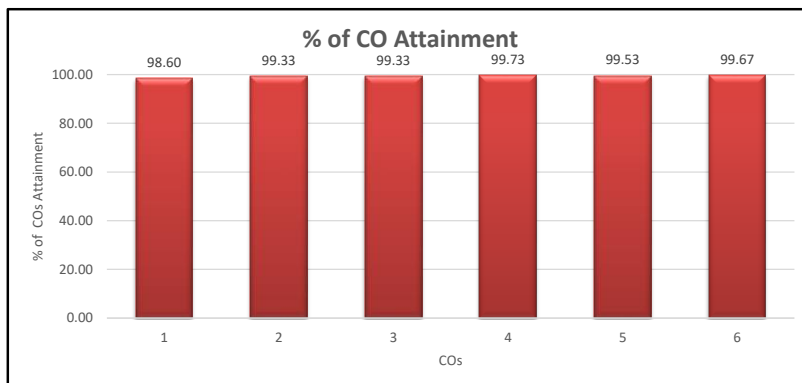
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**Attainment of COs**

Program: CSE		PCC- CS502: System Programming				Class: TYCSE.	Semester V	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	0.25	0.25	0.25				
C01	Student will be able to identify the role of system programs and application program	3	3	3	3	3.00	2.79	2.96	98.60
C02	Students will be able to understand the basic of systemprogrammeditor,compiler,assembler,linker,loader,interpreter and debugger.	3	3	3	3	3.00	2.90	2.98	99.33
C03	Students will be able to describe the various concept of assemblers and macro-processor	3	3	3	3	3.00	2.90	2.98	99.33
C04	Students able to understand various phase of compiler and compare its working with assembler	3	3	3	3	3.00	2.96	2.99	99.73
C05	Students understand how linker and loader create an executable program from an object module created by	3	3	3	3	3.00	2.93	2.99	99.53
C06	for basic program and learn about terminal i/p o/p through libraries	3	3	3	3	3.00	2.95	2.99	99.67

**Overall Attainment=0.8\*Direct+0.2\*Indirect**



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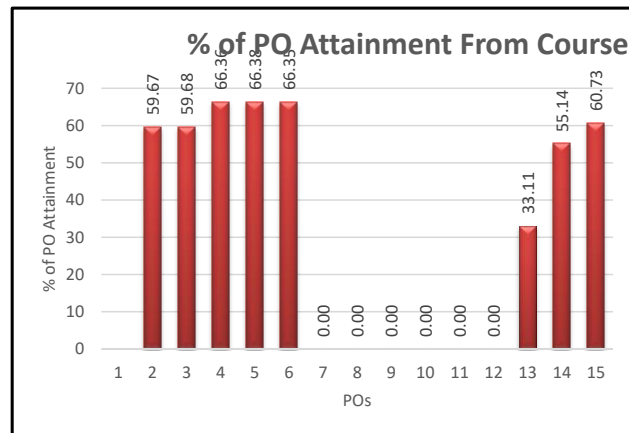
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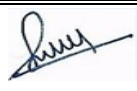

### Attainment of POs

Program: CSE	Class: TYCSE	Class: TYCSE	Semester V	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	2.96	1	1										1	3	2	
CO2	2.98		1	1		2		1		1				1	2	
CO3	2.98	2		2	2	2	1	1	1	1			1	1	1	
CO4	2.99	1	1	2	2	2	1	1	1	1			1	1	2	
CO5	2.99	2	3	3	2	2	1	1	1	1				2	2	
CO6	2.99	3	3	2	2	2	1	1					1	2	2	

CO-PO Attainment																
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	0.99	0.99										0.99	2.96	1.97		
CO2		0.99	0.99		1.99		0.99		0.99				0.99	1.99		
CO3	1.99		1.99	1.99	1.99	0.99	0.99	0.99	0.99			0.99	0.99	0.99		
CO4	1.00	1.00	1.99	1.99	1.99	1.00	1.00	1.00	1.00			1.00	1.00	1.99		
CO5	1.99	2.99	2.99	1.99	1.99	1.00	1.00	1.00	1.00				1.99	1.99		
CO6	2.99	2.99	1.99	1.99	1.99	1.00	1.00					1.00	1.99	1.99		
<b>PO Attainment From Course</b>	<b>1.79</b>	<b>1.79</b>	<b>1.99</b>	<b>1.99</b>	<b>1.99</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.99</b>	<b>1.65</b>	<b>1.82</b>	<b>0.00</b>	
<b>% of PO Attainment From Course</b>	<b>59.67</b>	<b>59.68</b>	<b>66.36</b>	<b>66.38</b>	<b>66.35</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>33.11</b>	<b>55.14</b>	<b>60.73</b>	<b>0.00</b>	



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**COURSE EXIT SURVEY**

Academic Year:2021-22	Class: TYCSE	Semester V
Program: CSE	PCC- CS502 : System Programming	

Name of Student: \_\_\_\_\_ Roll no \_\_\_\_\_

After the completion of the course PCC- CS502 : System Programming Do you think following outcomes are achieved.Then rate the achievement on point scale of (0 -3, 0: Lowest 3:Highest)

CO1 Q1. Student will be able to identify the role of system programs and application programs

Rate\_\_\_\_\_

CO2 Q2.Student will be able to understand the basics of system programs like editors, compiler, assembler, linker, loader, interpreter and debugger.

Rate\_\_\_\_\_

CO3 Q3. Students able to describe the various concepts of assemblers and macro - processors.

Rate\_\_\_\_\_

CO4 Q4. Students able to understand the various phases of compiler and compare its working with assembler.

Rate\_\_\_\_\_

CO5 Q5. Students understand how linker and loader create an executable program from an object module created by assembler and compiler.

Rate\_\_\_\_\_

CO6 Q6. Students will be able to create graphical user interfaces for basic programs and learn about terminal input/output through the terminio libraries.

Rate\_\_\_\_\_

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

  
Faculty Sign

Academic Year:2021-22	Class: TYCSE	Semester V
Program: CSE	PCC- CS502 : System Programming	

Roll No	PRN	C01	C02	C03	C04	C05	C06
1	2020075111	2	3	3	3	3	3
2	2020074836	3	3	3	3	2	3
3	2020074835	3	3	3	3	3	3
4	2020074834	3	3	3	3	3	3
5	2020074833	3	3	3	3	3	3
6	2020074831	2	3	3	3	3	3
7	2020074830	3	3	3	3	3	3
8	2020074829	3	3	3	3	3	3
9	2020074827	3	3	3	3	3	3
10	2020074826	3	3	3	3	3	3
11	2020074825	3	2	2	3	3	3
12	2020074824	3	3	2	3	3	3
13	2020074823	3	3	2	3	3	3
14	2020074821	2	3	3	3	3	3
15	2020074820	3	3	3	3	3	3
16	2020074819	3	3	3	3	3	3
17	2020074816	3	3	3	3	3	3
18	2020074815	3	3	3	3	3	3
19	2020074813	3	3	3	3	3	3
20	2020074811	3	3	3	3	3	3
21	2020074810	2	3	3	2	2	3
22	2019087948	3	3	3	3	3	3
23	2019087947	3	3	3	3	3	3
24	2019081154	2	3	2	3	3	3
25	2019081152	3	2	3	3	3	3
26	2019081151	3	3	3	3	3	3
27	2019081149	2	3	3	3	2	3
28	2019076789	2	3	3	3	3	3
29	2019076590	3	3	3	3	3	3
30	2019076589	3	3	3	3	3	3
31	2019076587	3	2	3	3	3	3
32	2019076586	3	3	3	3	3	3
33	2019076585	3	3	3	3	3	3
34	2019076583	3	3	3	3	3	3
35	2019076579	3	3	2	3	3	3
36	2019076578	3	3	3	3	3	2
37	2019076577	3	2	3	3	3	3
38	2019076576	3	3	3	3	3	3
39	2019076575	2	2	3	3	2	3
40	2019076574	3	2	3	3	3	3
41	2019076572	3	2	3	3	3	3
42	2019076571	3	3	3	3	3	3
43	2019076570	3	2	3	3	3	3
44	2019076569	2	3	3	3	3	3

45	2019076567	2	3	2	3	3	3
46	2019076566	2	3	3	3	2	3
47	2019076565	2	3	3	3	3	3
48	2019076564	2	3	3	3	3	3
49	2019076562	2	3	3	3	3	3
50	2019076561	2	3	3	3	3	3
51	2019076560	2	3	3	3	3	3
52	2019076559	2	3	3	3	3	3
53	2019076558	3	3	2	3	3	3
54	2019076557	2	3	3	3	3	3
55	2019076556	3	3	3	3	3	3
56	2019076554	3	3	2	2	3	3
57	2019076553	3	3	3	3	3	3
58	2019076552	3	3	3	3	3	3
59	2019076550	3	3	3	3	3	3
60	2019076549	3	3	3	3	3	3
61	2019076547	3	3	3	3	3	3
62	2019076546	3	3	3	3	3	3
63	2019076545	3	3	3	3	3	2
64	2019076543	3	3	3	3	3	3
65	2019076543	3	3	3	3	3	3
66	2019076542	3	3	3	3	3	3
67	2019076541	3	3	3	3	3	3
68	2019076538	3	3	3	3	3	3
69	2019076471	3	3	3	3	3	3
70	2019074312	3	3	3	3	3	2
71	2018087126	3	3	3	3	3	3
72	2018087117	3	3	3	3	3	3
73	2018087115	3	3	3	3	2	3
74	2018087088	3	3	3	3	3	3
75	2018087079	3	3	3	3	3	3
76	2018087059	3	3	3	3	3	3
77	2018087034	3	3	3	3	3	2
78	2018087033	3	3	3	3	3	3
79	2017053265	3	3	3	2	3	3
80	2017050865	3	3	3	3	3	3
81	2017050857	3	3	3	3	3	3
82	2017050835	3	3	3	3	3	3
83	2017050539	3	3	3	3	3	3
84	2017050510	3	3	3	3	3	3
		234	244	244	249	246	248
		<b>2.79</b>	<b>2.90</b>	<b>2.90</b>	<b>2.96</b>	<b>2.93</b>	<b>2.95</b>
<b>Average Indirect Attainment</b>			<b>2.91</b>				



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**CIE Result Analysis: Attainment of COs**

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester V</b>
<b>Program: CSE</b>	<b>PCC-CS503 Object-Oriented Modeling &amp; Design</b>	

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




Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
30	22	26
31	22	26
32	20	26
33	17	26
34	20	26
35	18	26
36	26	24
37	19	26
38	18	26
39	24	24
40	26	24
41	21	26
42	21	26
43	24	26
44	13	26
45	22	26
46	25	26
47	18	26
48	14	26
49	19	26
50	20	26
51	15	26
52	20	26
53	22	26
54	19	26
55	28	26
56	26	26
57	26	26

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
58	29	26
59	25	26
60	19	26
61	21	26
62	19	26
63	18	26
64	28	26
65	26	26
66	27	26
67	24	24
68	23	26
69	15	28
70	27	26
71	16	26

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
72	27	24
73	18	26
74	19	26
75	20	26
76	25	26
77	19	26
78	27	26
79	28	26
80	26	26
81	23	26
82	29	26
83	27	26
84	20	26
85	24	26

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Threshold %	70	
Threshold Marks	21	21
No. of Students Above Threshold Marks	51	84
Total No. of Students in Class	84	
CO Wise Average Percentage Attainment*	60.71	100.00
Attainment Level**	2	3

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

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

<b>Academic Year:2021-22</b>	<b>Class:TY</b>	<b>Semester V</b>
<b>Program: CSE</b>	<b>PCC-CS503 Object-Oriented Modeling &amp; Design</b>	




Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4			CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA	Marks	70	NA	NA
PRN				PRN			
2020074834	70	NA	NA	2019076541	62	NA	NA
2019076789	64	NA	NA	2019076562	62	NA	NA
2020074835	70	NA	NA	2018087079	62	NA	NA
2020074813	70	NA	NA	2020074823	64	NA	NA
2019087947	56	NA	NA	2019076569	62	NA	NA
2019076552	59	NA	NA	2018087126	62	NA	NA
2020074811	64	NA	NA	2020075111	70	NA	NA
2019076471	67	NA	NA	2019076587	64	NA	NA
2019076556	64	NA	NA	2019076579	62	NA	NA
2019076575	62	NA	NA	2019087948	70	NA	NA
2020074830	62	NA	NA	2020074825	70	NA	NA
2018087115	53	NA	NA	2019076559	62	NA	NA
2020074819	64	NA	NA	2019076585	67	NA	NA
2019076570	67	NA	NA	2018087033	67	NA	NA
2019081154	62	NA	NA	2020074821	70	NA	NA
2019076571	62	NA	NA	2019081152	64	NA	NA
2019076564	67	NA	NA	2018087117	62	NA	NA
2020074827	59	NA	NA	2018087088	62	NA	NA
2019076543	64	NA	NA	2019076546	62	NA	NA
2019076547	64	NA	NA	2019076558	62	NA	NA
2020074826	70	NA	NA	2019076560	64	NA	NA
2020074831	70	NA	NA	2018087034	59	NA	NA
2020074820	70	NA	NA	2019076578	62	NA	NA
2019076545	67	NA	NA	2019076565	62	NA	NA
2019076549	70	NA	NA	2020074829	70	NA	NA
2020074810	70	NA	NA	2020074836	59	NA	NA
2019076561	64	NA	NA	2019076583	62	NA	NA
2019076542	62	NA	NA	2019076586	59	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
PRN			
2019076554	62	NA	NA
2019076550	62	NA	NA
2019076538	70	NA	NA
2020074816	70	NA	NA
2019076567	64	NA	NA
2020074824	70	NA	NA
2019076572	70	NA	NA
2019076590	70	NA	NA
2019076589	59	NA	NA
2019076576	59	NA	NA
2019076574	67	NA	NA
2019076566	67	NA	NA
2018087059	62	NA	NA
2019081149	62	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
PRN			
2020074815	62	NA	NA
2019076543	64	NA	NA
2020074833	70	NA	NA
2019076557	59	NA	NA
2019076553	64	NA	NA
2019074312	62	NA	NA
2019081151	62	NA	NA
2017050539	59	NA	NA
2017050865	67	NA	NA
2017053265	62	NA	NA
2017050835	62	NA	NA
2017050857	62	NA	NA
2017050510	62	NA	NA
2019076577	59	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
Threshold %	85.71	NA	NA
Threshold Marks	60	NA	NA
No. of Students Above Threshold Marks	72	NA	NA
Total No. of Students in Class	84	NA	NA
CO Wise Average Percentage Attainment*	85.71	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	

 <b>Mr. Vijay D. Chougule</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**COURSE EXIT SURVEY**

Academic Year:2021-22	Class: TY	Semester V
Program: CSE	PCC-CS503 Object-Oriented Modeling & Design	

Name of Student: \_\_\_\_\_

Roll NO: \_\_\_\_\_

After the completion of the course PCC-CS503 Object-Oriented Modeling & Design Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

**CO1 Q1. Ability to analyze and model software systems**

Rate \_\_\_\_\_

**CO2 Q2. Ability to construct OO view of the system**

Rate \_\_\_\_\_

**CO3 Q3. Ability to design a Software System using OMT design techniques**

Rate \_\_\_\_\_

**CO4 Q4. Ability to design a Software System using UML design techniques**

Rate \_\_\_\_\_

CO	CO1	CO2	CO3	CO4
Rate Given				



**Faculty Sign**

<b>Academic Year:2021-22</b>		<b>Class: TY</b>		<b>Semester V</b>	
<b>Program: CSE</b>		<b>PCC-CS503 Object-Oriented Modeling &amp; Design</b>			

<b>Roll No</b>	<b>PRN</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>
1	2019076559	3	2	3	2
2	2019076587	2	3	2	3
3	2019076547	3	2	3	2
4	2019087948	2	3	3	2
5	2019076566	3	2	3	2
6	2020074829	2	2	2	3
7	2020074833	3	2	3	2
8	2020074821	2	3	2	3
9	2020075111	3	2	3	2
10	2020074820	2	3	3	2
11	2019076585	3	2	3	2
12	2019076546	2	3	2	3
13	2019076565	3	2	3	2
14	2019076553	2	2	2	3
15	2019076571	3	2	3	2
16	2019076567	2	3	3	2
17	2020074830	3	2	3	2
18	2019076549	2	3	2	3
19	2019076549	3	2	3	2
20	2020074811	2	3	2	3
21	2019076561	3	2	3	2
22	2019076556	2	3	3	2
23	2019076577	3	2	3	2
24	2019081154	2	3	2	3
25	2019076542	3	2	3	2
26	2019076576	2	3	2	3
27	2019076575	3	2	3	2
28	2019076541	2	2	3	2
29	2019076541	3	2	3	2
30	2019076569	2	2	2	3
31	2020074825	3	2	3	2
32	2020074819	2	2	2	3
33	2019076950	3	2	3	2
34	2019076543	2	2	3	2
35	2019076550	3	2	3	2
36	2019076572	2	3	2	3
37	2019076558	3	2	3	2
38	2019081151	2	3	2	3
39	2019076560	3	2	3	2
40	2019076586	2	2	3	2
41	2019076586	3	2	3	2

42	2019076578	2	3	2	3
43	2019081149	3	2	3	2
44	2018087088	2	3	2	3
45	2019074312	3	2	3	2
46	2018087079	2	3	3	2
47	2017050857	3	2	3	2
48	2017050865	2	2	2	3
49	2017053265	3	2	3	2
50	2019076589	2	2	2	3
51	2019076545	3	2	3	2
52	2019076564	2	2	3	2
53	2019076540	3	2	3	2
54	2019076557	3	3	2	3
55	2020074813	3	2	3	2
56	2019076583	3	3	2	3
57	2019076554	3	2	3	2
58	2019076579	3	3	3	2
59	2018087117	3	2	3	2
60	2018087126	2	3	2	3
61	2019076471	3	2	3	2
62	2019076552	2	2	2	2
63	2019076789	3	2	3	2
64	2020074827	3	2	3	2
65	2020074823	3	2	3	2
66	2020074815	2	2	2	2
67	2019081152	3	2	3	2
68	2019076562	2	2	2	2
69	2019076573	3	2	3	2
70	2018087033	2	2	3	2
71	2019076574	3	2	3	2
72	2019076538	3	2	2	3
73	2017050539	3	2	2	3
74	2018087059	3	2	3	2
75	2019076578	3	3	3	2
76	2018087115	3	2	3	2
77	2017050510	3	2	3	2
78	2019087947	3	2	2	3
79	2020074835	3	2	2	2
80	2020074824	3	2	3	2
81	2020074816	2	2	3	2
82	2020074810	3	2	2	2
83	2020074834	3	2	3	2
84	2020074836	2	3	3	2
		219	190	224	191
		<b>2.61</b>	<b>2.26</b>	<b>2.67</b>	<b>2.27</b>
<b>Average Indirect Attainment</b>		<b>2.45</b>			



Faculty Sign



## BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

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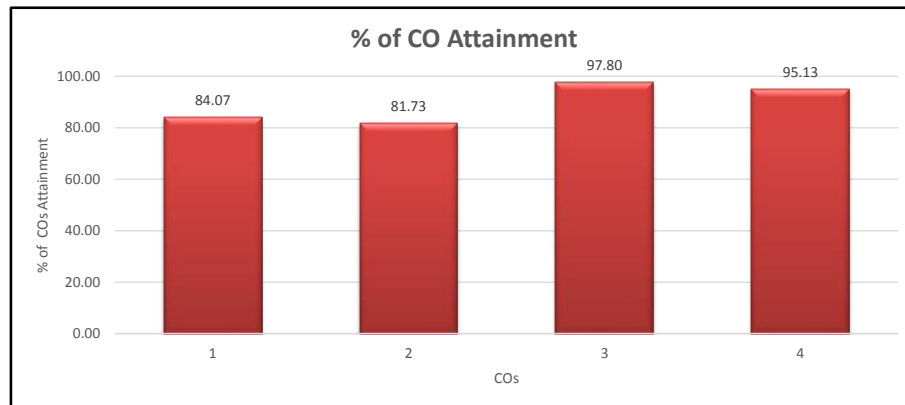
**PRINCIPAL**




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

### Attainment of COs

Program: CSE		PCC-CS503 Object-Oriented Modeling & Design				Class: TY	Semester V	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	0.5	0.5	NA	NA				
CO1	Ability to analyze and model software systems	2	3	NA	NA	2.50	2.61	2.52	84.07
CO2	Ability to construct OO view of the system	2	3	NA	NA	2.50	2.26	2.45	81.73
CO3	Ability to design a Software System using OMT design techniques	3	3	NA	NA	3.00	2.67	2.93	97.80
CO4	Ability to design a Software System using UML design techniques	3	3	NA	NA	3.00	2.27	2.85	95.13

**Overall Attainment=0.8\*Direct+0.2\*Indirect**



 <b>Mr. Vijay D. Chougule</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**PRINCIPAL**  
**Dr. Vijay Ghorpade**  
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**Attainment of POs**

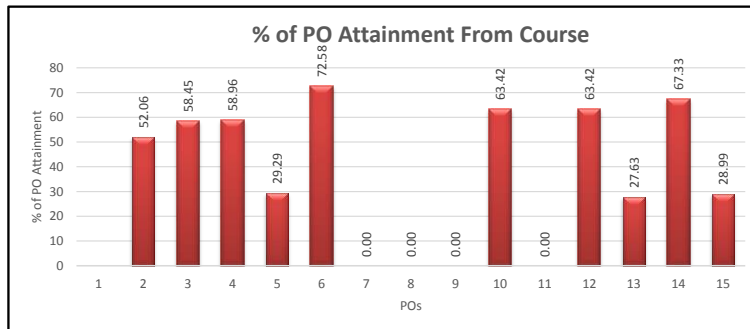
Program: CSE	PCC-CS503 Object-Oriented Modeling & Design	Class: TY	Semester V	Academic Year: 2021-22
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**CO-PO Mapping**

CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.52	3	2		1								1	3	1	
CO2	2.45	1	3	2	1	3							1	2	1	
CO3	2.93	2	1		1											
CO4	2.85	1	2	2		2				2		2		2	1	

**CO-PO Attainment**

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.52	1.68		0.84								0.84	2.52	0.84	
CO2	0.82	2.45	1.63	0.82	2.45							0.82	1.63	0.82	
CO3	1.96	0.98		0.98											
CO4	0.95	1.90	1.90		1.90				1.90		1.90		1.90	0.95	
PO Attainment From Course	1.56	1.75	1.77	0.88	2.18	0.00	0.00	0.00	1.90	0.00	1.90	0.83	2.02	0.87	0.00
% of PO Attainment From Course	52.06	58.45	58.96	29.29	72.58	0.00	0.00	0.00	63.42	0.00	63.42	27.63	67.33	28.99	0.00



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

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester V</b>
<b>Program: CSE</b>	<b>OEC-CS505: Computer Graphics and Multimedia</b>	

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
76	14	20
77	17	21
78	20	20
79	22	21
80	21	21
81	20	20
82	17	20
83	19	20
84	13	21
85	16	19

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	44	79
Total No. of Students in Class	84	
CO Wise Average Percentage Attainment*	52.38	94.05
Attainment Level**	2	3

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

 <b>Dr. Rahul P Mirajkar</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**PRINCIPAL**  
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<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester V</b>
<b>Program: CSE</b>	<b>OEC-CS505: Computer Graphics and Multimedia</b>	

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
PRN No.			
2019076559	62	NA	NA
2019076587	56	NA	NA
2019076547	62	NA	NA
2019087948	62	NA	NA
2019076566	50	NA	NA
2020074829	53	NA	NA
2020074833	59	NA	NA
2020074821	56	NA	NA
2020075111	59	NA	NA
2020074820	42	NA	NA
2019076585	67	NA	NA
2019076546	50	NA	NA
2019076565	42	NA	NA
2019076553	53	NA	NA
2019076571	42	NA	NA
2019076567	56	NA	NA
2020074830	54	NA	NA
2019076549	50	NA	NA
2019076549	42	NA	NA
2020074811	56	NA	NA
2019076561	62	NA	NA
2019076556	62	NA	NA
2019076577	62	NA	NA
2019081154	53	NA	NA
2019076542	53	NA	NA
2019076576	62	NA	NA
2019076575	53	NA	NA
2019076541	50	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	NA
PRN No.			
2019076541	42	NA	NA
2019076569	48	NA	NA
2020074825	50	NA	NA
2020074819	59	NA	NA
2019076950	42	NA	NA
2019076543	50	NA	NA
2019076550	62	NA	NA
2019076572	50	NA	NA
2019076558	48	NA	NA
2019081151	56	NA	NA
2019076560	42	NA	NA
2019076586	64	NA	NA
2019076586	64	NA	NA
2019076578	48	NA	NA
2019081149	62	NA	NA
2018087088	50	NA	NA
2019074312	45	NA	NA
2018087079	50	NA	NA
2017050857	56	NA	NA
2017050865	50	NA	NA
2017053265	62	NA	NA
2019076589	48	NA	NA
2019076545	45	NA	NA
2019076564	53	NA	NA
2019076540	62	NA	NA
2019076557	59	NA	NA
2020074813	50	NA	NA
2019076583	45	NA	NA




Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	50	25
PRN No.		NA	NA
2019076554	53	NA	NA
2019076579	42	NA	NA
2018087117	48	NA	NA
2018087126	62	NA	NA
2019076471	53	NA	NA
2019076552	62	NA	NA
2019076789	56	NA	NA
2020074827	56	NA	NA
2020074823	56	NA	NA
2020074815	45	NA	NA
2019081152	48	NA	NA
2019076562	62	NA	NA
2019076573	48	NA	NA
2018087033	45	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	50	25
PRN No.		NA	NA
2019076574	59	NA	NA
2019076538	42	NA	NA
2017050539	62	NA	NA
2018087059	53	NA	NA
2019076578	59	NA	NA
2018087115	42	NA	NA
2017050510	53	NA	NA
2019087947	56	NA	NA
2020074835	42	NA	NA
2020074824	45	NA	NA
2020074816	45	NA	NA
2020074810	48	NA	NA
2020074834	53	NA	NA
2020074836	56	NA	NA

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	25
Threshold %	60	NA	NA
Threshold Marks	45	NA	NA
No. of Students Above Threshold Marks	73	NA	NA
Total No. of Students in Class	84	NA	NA
CO Wise Average Percentage Attainment*	86.90	NA	NA
Attainment Level**	3	NA	NA

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

 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: TY	Semester V
Program: CSE	OEC-CS505: Computer Graphics and Multimedia	

Name of Student: \_\_\_\_\_

Roll NO: \_\_\_\_\_

After the completion of the course OEC-CS505: Computer Graphics and Multimedia Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Express basic ideas of computer graphics and different display

Rate\_\_\_\_\_

CO2 Q2. Understand & apply various transformation, projection and rendering techniques on graphical objects

Rate\_\_\_\_\_

CO3 Q3. Identify & apply the intensity of light on graphical objects using different illumination models

Rate\_\_\_\_\_

CO4 Q4. Understand multimedia system & use of Multimedia Authoring & Compression techniques on graphical objects

Rate\_\_\_\_\_

CO	CO1	CO2	CO3	CO4
Rate Given				

Faculty Sign

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester V</b>			
<b>Program: CSE</b>	<b>OEC-CS505: Computer Graphics and Multimedia</b>				

<b>Roll No</b>	<b>PRN</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>
1	2019076559	3	2	3	2
2	2019076587	2	3	2	3
3	2019076547	3	2	3	2
4	2019087948	2	3	3	2
5	2019076566	3	2	3	2
6	2020074829	2	2	2	3
7	2020074833	3	2	3	2
8	2020074821	2	3	2	3
9	2020075111	3	2	3	2
10	2020074820	2	3	3	2
11	2019076585	3	2	3	2
12	2019076546	2	3	2	3
13	2019076565	3	2	3	2
14	2019076553	2	2	2	3
15	2019076571	3	2	3	2
16	2019076567	2	3	3	2
17	2020074830	3	2	3	2
18	2019076549	2	3	2	3
19	2019076549	3	2	3	2
20	2020074811	2	3	2	3
21	2019076561	3	2	3	2
22	2019076556	2	3	3	2
23	2019076577	3	2	3	2
24	2019081154	2	3	2	3
25	2019076542	3	2	3	2
26	2019076576	2	3	2	3
27	2019076575	3	2	3	2
28	2019076541	2	2	3	2
29	2019076541	3	2	3	2
30	2019076569	2	2	2	3
31	2020074825	3	2	3	2
32	2020074819	2	2	2	3
33	2019076950	3	2	3	2
34	2019076543	2	2	3	2
35	2019076550	3	2	3	2
36	2019076572	2	3	2	3
37	2019076558	3	2	3	2
38	2019081151	2	3	2	3
39	2019076560	3	2	3	2
40	2019076586	2	2	3	2
41	2019076586	3	2	3	2

42	2019076578	2	3	2	3
43	2019081149	3	2	3	2
44	2018087088	2	3	2	3
45	2019074312	3	2	3	2
46	2018087079	2	3	3	2
47	2017050857	3	2	3	2
48	2017050865	2	2	2	3
49	2017053265	3	2	3	2
50	2019076589	2	2	2	3
51	2019076545	3	2	3	2
52	2019076564	2	2	3	2
53	2019076540	3	2	3	2
54	2019076557	3	3	2	3
55	2020074813	3	2	3	2
56	2019076583	3	3	2	3
57	2019076554	3	2	3	2
58	2019076579	3	3	3	2
59	2018087117	3	2	3	2
60	2018087126	2	3	2	3
61	2019076471	3	2	3	2
62	2019076552	2	2	2	2
63	2019076789	3	2	3	2
64	2020074827	3	2	3	2
65	2020074823	3	2	3	2
66	2020074815	3	2	2	2
67	2019081152	3	2	3	2
68	2019076562	3	2	2	2
69	2019076573	3	2	3	2
70	2018087033	2	2	3	2
71	2019076574	3	2	3	2
72	2019076538	3	2	2	3
73	2017050539	3	2	3	3
74	2018087059	3	2	3	3
75	2019076578	3	3	3	3
76	2018087115	3	2	3	2
77	2017050510	3	3	3	3
78	2019087947	3	2	3	3
79	2020074835	3	2	2	3
80	2020074824	3	3	3	2
81	2020074816	3	3	3	2
82	2020074810	3	2	3	3
83	2020074834	3	2	3	2
84	2020074836	2	3	3	2
		222	193	227	196
		<b>2.64</b>	<b>2.30</b>	<b>2.70</b>	<b>2.33</b>
<b>Average Indirect Attainment</b>		<b>2.49</b>			



Faculty Sign



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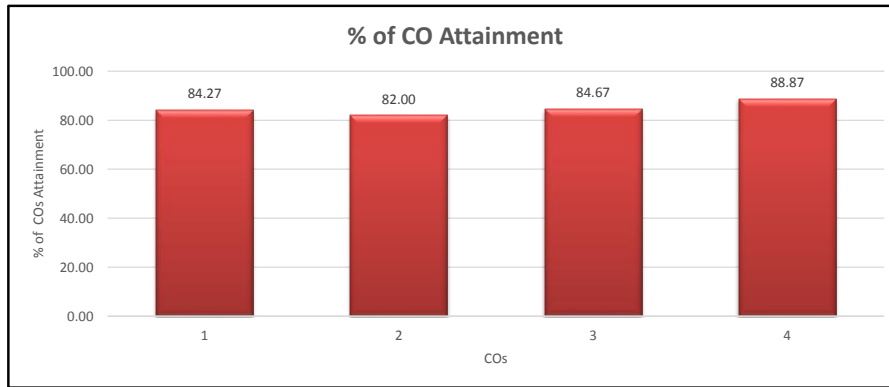
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**PRINCIPAL**  
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**Attainment of COs**

Program: CSE		OEC-CS505: CGM			Class: TY		Semester V	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	NA				
CO1	Express basic ideas of computer graphics and different display	2	3	NA	NA	2.50	2.64	2.53	84.27
CO2	Understand & apply various transformation, projection and rendering techniques on graphical objects	2	3	NA	NA	2.50	2.30	2.46	82.00
CO3	Identify & apply the intensity of light on graphical objects using different illumination models	2	3	NA	NA	2.50	2.70	2.54	84.67
CO4	Understand multimedia system & use of Multimedia Authoring & Compression techniques on graphical objects	3	3	NA	NA	2.75	2.33	2.67	88.87

**Overall Attainment=0.8\*Direct+0.2\*Indirect**



 <b>Dr. Rahul P Mirajkar</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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### Attainment of POs

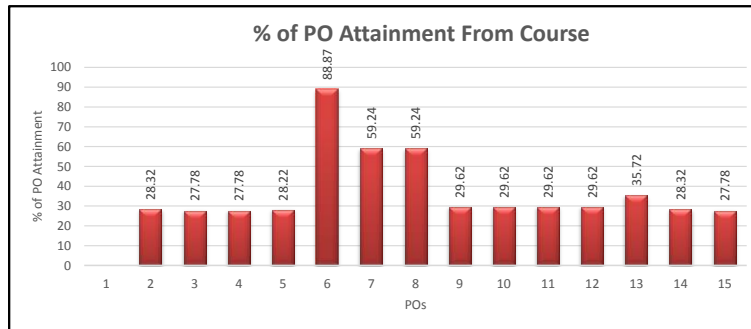
Program: CSE	OEC-CS505: CGM	Class: TY	Semester -V	Academic Year: 2021-22
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### CO-PO Mapping

CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.53	1											1	1		1.00
CO2	2.46	1	1	1									1	1	1	1.00
CO3	2.54	1	1	1	1								1	1	1	
CO4	2.67	1					3	2	2	1	1	1	1	2	1	1.00

### CO-PO Attainment

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0.84											0.84	0.84		0.84
CO2	0.82	0.82	0.82									0.82	0.82	0.82	0.82
CO3	0.85	0.85	0.85	0.85								0.85	0.85	0.85	
CO4	0.89					2.67	1.78	1.78	0.89	0.89	0.89	0.89	1.78	0.89	0.89
PO Attainment From Course	0.85	0.83	0.83	0.85	2.67	1.78	1.78	0.89	0.89	0.89	0.89	1.07	0.85	0.83	0.85
% of PO Attainment From Course	28.32	27.78	27.78	28.22	88.87	59.24	59.24	29.62	29.62	29.62	29.62	35.72	28.32	27.78	28.35



 <b>Dr. Rahul P Mirajkar</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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PRINCIPAL  
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**ESE Result Analysis: Attainment of COs**

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester V</b>
<b>Program: CSE</b>	<b>PCC- CS507 : Java Programming</b>	

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5,CO6		
<b>Marks</b>	NA	50	50
<b>PRN</b>			
2020074834	NA	41	42
2019076789	NA	41	42
2020074835	NA	43	42
2020074813	NA	45	44
2019087947	NA	39	38
2019076552	NA	40	39
2020074811	NA	42	42
2019076471	NA	41	42
2019076556	NA	43	45
2019076575	NA	39	42
2020074830	NA	43	38
2018087115	NA	37	38
2020074819	NA	37	39
2019076570	NA	38	39
2019081154	NA	37	38
2019076571	NA	37	38
2019076564	NA	43	42
2020074827	NA	41	42
2019076543	NA	40	39
2019076547	NA	47	48
2020074826	NA	44	45
2020074831	NA	39	39
2020074820	NA	37	38
2019076545	NA	41	42
2019076549	NA	41	42
2020074810	NA	40	38
2019076561	NA	37	38
2019076542	NA	39	38

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5,CO6		
<b>Marks</b>	NA	50	50
<b>PRN</b>			
2019076541	NA	37	38
2019076562	NA	43	42
2018087079	NA	41	42
2020074823	NA	41	44
2019076569	NA	37	38
2018087126	NA	40	39
2020075111	NA	41	42
2019076587	NA	43	42
2019076579	NA	38	39
2019087948	NA	42	41
2020074825	NA	37	38
2019076559	NA	43	42
2019076585	NA	41	42
2018087033	NA	41	40
2020074821	NA	43	44
2019081152	NA	41	40
2018087117	NA	37	38
2018087088	NA	40	41
2019076546	NA	40	41
2019076558	NA	37	38
2019076560	NA	41	42
2018087034	NA	40	38
2019076578	NA	40	39
2019076565	NA	43	42
2020074829	NA	46	47
2020074836	NA	45	44
2019076583	NA	42	41
2019076586	NA	40	39




Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	NA	50	50
PRN			
2019076554	NA	40	42
2019076550	NA	37	38
2019076538	NA	45	43
2020074816	NA	39	40
2019076567	NA	45	44
2020074824	NA	40	39
2019076572	NA	38	37
2019076590	NA	43	48
2019076589	NA	42	41
2019076576	NA	38	39
2019076574	NA	45	40
2019076566	NA	39	38
2018087059	NA	40	38
2019081149	NA	39	38

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	NA	50	50
PRN			
2020074815	NA	42	44
2019076543	NA	40	39
2020074833	NA	46	47
2019076557	NA	39	38
2019076553	NA	40	39
2019074312	NA	41	42
2019081151	NA	40	39
2017050539	NA	40	38
2017050865	NA	42	41
2017053265	NA	41	42
2017050835	NA	42	41
2017050857	NA	41	40
2017050510	NA	39	38
2019076577	NA	40	39

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	NA	50	50
Threshold %	NA	75	75
Threshold Marks	NA	37.5	37.5
No. of Students Above Threshold Marks	NA	72	83
Total No. of Students in Class	NA	84	84
CO Wise Average Percentage Attainment*	NA	86	99
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
CO5	NA	3	3
CO6	NA	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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**PRINCIPAL**  
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**COURSE EXIT SURVEY**

Academic Year:2021-22	Class: TY	Semester V
Program: CSE	PCC- CS507 : Java Programming	

Name of Student: \_\_\_\_\_ Roll NO: \_\_\_\_\_

After the completion of the course PCC- CS507 : Java Programming Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Explain the principle of object-oriented problem solving & programming

Rate \_\_\_\_\_

CO2 Q2. write a program which illustrate code reusability, security and abstraction using inheritance, package and interface in java

Rate \_\_\_\_\_

CO3 Q3. Develop reliable and user-friendly applications using exception handling and file handling.

Rate \_\_\_\_\_

CO4 Q4. Write a program to create desktop apps using SWING and event handling and also illustrate multithreading concepts

Rate \_\_\_\_\_

CO5 Q5. Write a program for database handling using JDBC & collection framework.

Rate \_\_\_\_\_

CO6 Q6. Write a program to apply network programming concept & develop web applications using servlet and jsp.

Rate \_\_\_\_\_

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

Faculty Sign

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester V</b>
<b>Program: CSE</b>	<b>PCC- CS507: Java Programming</b>	

<b>Roll No</b>	<b>PRN</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>	<b>CO6</b>
1	2020074834	2	3	2	3	2	1
2	2019076789	3	3	2	2	2	1
3	2020074835	3	2	3	2	3	1
4	2020074813	3	2	3	2	3	1
5	2019087947	3	2	2	2	2	1
6	2019076552	3	2	3	3	3	1
7	2020074811	2	2	2	1	2	1
8	2019076471	2	3	3	3	3	1
9	2019076556	3	2	2	2	3	1
10	2019076575	2	2	3	3	2	1
11	2020074830	3	2	3	2	2	1
12	2018087115	3	3	2	3	2	1
13	2020074819	3	2	3	3	3	3
14	2019076570	3	2	2	2	2	3
15	2019081154	3	3	3	3	3	3
16	2019076571	3	3	3	3	2	2
17	2019076564	3	3	3	3	2	3
18	2020074827	3	3	3	3	2	3
19	2019076543	3	3	3	3	2	2
20	2019076547	3	3	3	3	2	3
21	2020074826	3	3	3	3	2	3
22	2020074831	3	3	3	3	2	3
23	2020074820	3	3	2	3	2	1
24	2019076545	2	2	3	3	2	2
25	2019076549	3	3	3	3	2	2
26	2020074810	3	3	3	3	3	1
27	2019076561	3	3	3	3	3	1
28	2019076542	3	3	3	3	3	2
29	2019076541	3	3	3	2	2	1
30	2019076562	3	2	2	3	3	1
31	2018087079	2	3	2	2	3	2
32	2020074823	3	2	2	3	2	3
33	2019076569	3	3	3	3	3	3
34	2018087126	2	2	3	3	2	3
35	2020075111	3	3	3	2	2	2
36	2019076587	3	3	2	3	3	3
37	2019076579	3	2	3	3	2	3
38	2019087948	3	3	2	2	3	3
39	2020074825	3	2	2	3	3	2
40	2019076559	3	2	2	2	3	1
41	2019076585	3	3	2	3	2	3
42	2018087033	3	3	3	3	3	1
43	2020074821	3	3	3	2	3	1
44	2019081152	3	3	3	3	3	3
45	2018087117	2	2	3	2	3	2
46	2018087088	3	3	3	3	3	1
47	2019076546	3	3	2	3	3	2
48	2019076558	3	3	3	3	2	2
49	2019076560	3	3	3	3	3	2
50	2018087034	3	3	3	3	3	2
51	2019076578	3	3	3	3	3	2
52	2019076565	3	3	3	3	3	2
53	2020074829	3	3	3	3	3	1
54	2020074836	3	3	3	3	3	3

55	2019076583	3	3	3	3	3	3
56	2019076586	3	3	3	3	3	1
57	2019076554	3	3	2	2	2	2
58	2019076550	3	3	3	3	3	2
59	2019076538	3	3	3	3	3	2
60	2020074816	3	3	3	2	3	2
61	2019076567	3	2	3	2	3	2
62	2020074824	3	3	3	3	3	1
63	2019076572	2	2	2	3	3	3
64	2019076590	3	3	3	3	3	1
65	2019076589	3	3	3	3	3	1
66	2019076576	3	3	3	3	3	3
67	2019076574	3	3	3	3	3	1
68	2019076566	3	3	3	3	3	3
69	2018087059	2	3	3	3	3	3
70	2019081149	3	3	2	3	3	3
71	2020074815	2	3	3	2	3	3
72	2019076543	2	3	2	2	3	1
73	2020074833	2	2	3	2	3	3
74	2019076557	3	3	2	2	3	1
75	2019076553	3	2	3	2	3	3
76	2019074312	3	3	3	2	3	1
77	2019081151	2	3	2	2	3	2
78	2017050539	3	2	3	2	3	2
79	2017050865	2	3	2	2	3	2
80	2017053265	3	3	3	2	3	2
81	2017050835	2	2	3	2	3	2
82	2017050857	3	3	2	2	3	2
83	2017050510	3	3	3	2	3	2
84	2019076577	3	3	2	2	3	3
		236	228	226	219	226	165
		<b>2.81</b>	<b>2.71</b>	<b>2.69</b>	<b>2.61</b>	<b>2.69</b>	<b>1.96</b>
<b>Average Indirect Attainment</b>		<b>2.58</b>					

  
Faculty Sign



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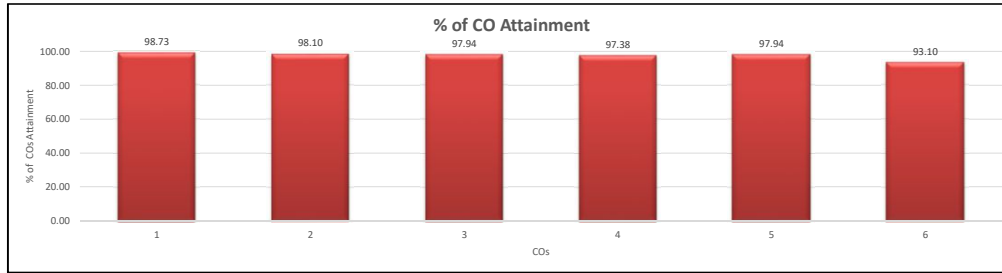
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**PRINCIPAL**  
**Dr. Vijay Ghorpade**  
M.E., Ph. D. (Computer)

**Attainment of COs**

Program: CSE		PCC- CS507 : Java Programming				Class: TY	Semester V	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				Attainment Level Weighted Average
Weightage		0	0	0.5	0.5				
CO1	Students will be able to articulate the principle of object-oriented problem solving & programming	0	0	3	3	3.00	2.81	98.73	
CO2	Students will be able to illustrate code reusability, security and abstraction using inheritance, package and interface	0	0	3	3	3.00	2.71	98.10	
CO3	Students will be able to develop reliable and user-friendly applications using exception handling and file handling.	0	0	3	3	3.00	2.69	97.94	
CO4	Students will be able to create desktop apps using SWING and event handling and also illustrate multithreading	0	0	3	3	3.00	2.61	97.38	
CO5	Students will be able to use JDBC & collection framework.	0	0	3	3	3.00	2.69	97.94	
CO6	Students will be able to apply network programming concept & develop web applications using servlet and jsp.	0	0	3	3	3.00	1.96	93.10	

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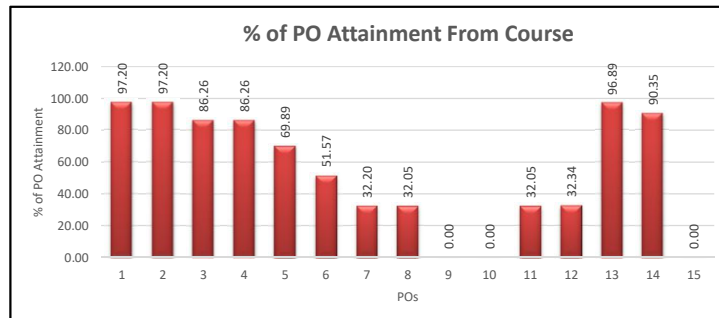
**PRINCIPAL**  
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M.E., Ph. D. (Computer)

### Attainment of POs

Program: CSE	PCC- CS507 : Java Programming	Class: TY	Semester V	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	2.96	3	3	2	2	1	1						1			
CO2	2.94	3	3	2	2	1								3	2	
CO3	2.94	3	3	3	3	2	1	1					1	3	3	
CO4	2.92	3	3	3	3	3	2	1	1			1	1	3	3	
CO5	2.94	3	3	3	3	3	2	1	1			1	1	3	3	
CO6	2.79	3	3	3	3	3	2	1	1			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	2.96	2.96	1.97	1.97	0.99	0.99						0.99				
CO2	2.94	2.94	1.96	1.96	0.98								2.94	1.96		
CO3	2.94	2.94	2.94	2.94	1.96	0.98	0.98					0.98	2.94	2.94		
CO4	2.92	2.92	2.92	2.92	2.92	1.95	0.97	0.97				0.97	0.97	2.92	2.92	
CO5	2.94	2.94	2.94	2.94	2.94	1.96	0.98	0.98				0.98	0.98	2.94	2.94	
CO6	2.79	2.79	2.79	2.79	2.79	1.86	0.93	0.93				0.93	0.93	2.79	2.79	
PO Attainment From Course	2.92	2.92	2.59	2.59	2.10	1.55	0.97	0.96	0.00	0.00	0.96	0.97	2.91	2.71	0.00	
% of PO Attainment From Course	97.20	97.20	86.26	86.26	69.89	51.57	32.20	32.05	0.00	0.00	32.05	32.34	96.89	90.35	0.00	



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

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>PCC-CS502: Compiler Construction</b>	

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

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






Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
57	7	16
58	17	17
59	13	16
60	13	5
61	12	6
62	10	13
63	17	22
64	19	17
65	20	19
66	12	24
67	19	23
68	15	16
69	22	17
70	20	25

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2, CO3	CO4, CO5, CO6
Marks	30	30
Roll Number		
71	10	13
72	13	25
73	19	26
74	12	21
75	14	14
76	17	15
77	18	28
78	18	18
79	18	24
80	18	26
81	20	25
82	19	27
83	15	25
84	11	18
85	13	AB

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	37	69
Total No. of Students in Class	84	
CO Wise Average Percentage Attainment*	44.05	82.14285714
Attainment Level**	2	3

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

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

<b>Academic Year:2021-22</b>	<b>Class:TY</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>PCC-CS502: Compiler Construction</b>	

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			
1	70	NA	22	29	67	NA	21
2	59	NA	22	30	70	NA	23
3	53	NA	19	31	67	NA	22
4	62	NA	23	32	62	NA	23
5	70	NA	21	33	70	NA	20
6	70	NA	21	34	67	NA	19
7	70	NA	22	35	67	NA	17
8	70	NA	17	36	70	NA	23
9	70	NA	21	37	67	NA	21
10	70	NA	16	38	70	NA	18
11	62	NA	22	39	70	NA	20
12	67	NA	24	40	64	NA	20
13	70	NA	21	41	67	NA	15
14	70	NA	17	42	70	NA	21
15	70	NA	NA	43	70	NA	22
16	70	NA	21	44	70	NA	16
17	70	NA	21	45	70	NA	22
18	67	NA	22	46	67	NA	22
19	70	NA	17	47	67	NA	20
20	67	NA	22	48	70	NA	23
21	70	NA	24	49	67	NA	23
22	70	NA	22	50	70	NA	21
23	70	NA	19	51	70	NA	15
24	67	NA	22	52	67	NA	20
25	67	NA	22	53	67	NA	19
26	70	NA	20	54	67	NA	23
27	70	NA	22	55	64	NA	23
28	62	NA	24	56	70	NA	19

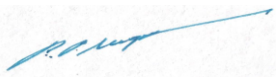


Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5, CO6		
<b>Marks</b>	70	50	25
<b>RN</b>			
57	67	NA	15
58	70	NA	22
59	67	NA	20
60	70	NA	20
61	67	NA	15
62	64	NA	15
63	67	NA	23
64	70	NA	21
65	67	NA	22
66	67	NA	18
67	70	NA	21
68	70	NA	16
69	70	NA	22
70	67	NA	22

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5, CO6		
<b>Marks</b>	70	50	25
<b>RN</b>			
71	70	NA	17
72	70	NA	20
73	56	NA	22
74	67	NA	20
75	67	NA	17
76	70	NA	20
77	64	NA	22
78	70	NA	20
79	70	NA	22
80	70	NA	23
81	70	NA	20
82	67	NA	19
83	70	NA	20
84	67	NA	20

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5, CO6		
<b>Marks</b>	70	NA	25
<b>Threshold %</b>	93	NA	68
<b>Threshold Marks</b>	65	NA	17
<b>No. of Students Above Threshold Marks</b>	73	NA	77
<b>Total No. of Students in Class</b>	84	NA	84
<b>CO Wise Average Percentage Attainment*</b>	86.90	NA	91.67
<b>Attainment Level**</b>	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

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PRINCIPAL

**Dr. Vijay Ghorpade**

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

**COURSE EXIT SURVEY**

Academic Year:2021-22	Class: TY	Semester VI
Program: CSE	PCC-CS502: Compiler Construction	

Name of Student: \_\_\_\_\_

Roll NO: \_\_\_\_\_

After the completion of the course PCC-CS502: Compiler Construction Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 1: Lowest 3: Highest)

CO1 Q1. Recall the compiler phases and compiler construction tools like LEX and YACC

Rate \_\_\_\_\_

CO2 Q2. To design and implement Lexical Analyser for a simple language

Rate \_\_\_\_\_

CO3 Q3. To design and implement Syntax analyser for a simple expression

Rate \_\_\_\_\_

CO4 Q4. To apply Syntax directed translations and Syntax Directed definitions to generate intermediate code

Rate \_\_\_\_\_

CO5 Q5. To identify appropriate code optimizing transformation for the given code

Rate \_\_\_\_\_

CO6 Q6. To explain concept of code generation

Rate \_\_\_\_\_

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

Faculty Sign

<b>Academic Year:2021-22</b>				<b>Class: TY</b>		<b>Semester VI</b>	
<b>Program: CSE</b>				<b>PCC-CS502: Compiler Construction</b>			

<b>Roll No</b>	<b>PRN</b>	<b>C01</b>	<b>C02</b>	<b>C03</b>	<b>C04</b>	<b>C05</b>	<b>C06</b>
1	5339	3	2	3	2	3	2
2	5343	2	3	2	3	2	3
3	5345	3	2	3	2	3	2
4	5347	2	3	3	2	3	3
5	5348	3	2	3	2	3	3
6	5352	2	2	2	3	2	3
7	5353	3	2	3	2	3	2
8	5406	2	3	2	3	2	3
9	5355	3	2	3	2	3	2
10	5404	2	3	3	2	3	3
11	5358	3	2	3	2	3	3
12	5362	2	3	2	3	2	3
13	5363	3	2	3	2	3	2
14	5365	2	2	2	3	2	3
16	5366	3	2	3	2	3	2
17	5367	2	3	3	2	3	3
18	5376	3	2	3	2	3	3
19	5342	2	3	2	3	2	3
20	5403	3	2	3	2	3	2
21	5399	2	3	2	3	2	3
22	5378	3	2	3	2	3	2
23	5379	2	3	3	2	3	3
24	5382	3	2	3	2	3	3
25	5385	2	3	2	3	2	3
26	5386	3	2	3	2	3	2
27	5387	2	3	2	3	2	3
28	5389	3	2	3	2	3	2
29	5390	2	2	3	2	3	3
30	5393	3	2	3	2	3	3
31	5394	2	2	2	3	2	3
32	5395	3	2	3	2	3	2
33	5396	2	2	2	3	2	3
34	5375	3	2	3	2	3	2
35	5401	2	2	3	2	3	3
36	5368	3	2	3	2	3	3
37	5374	2	3	2	3	2	3
38	5357	3	2	3	2	3	2
39	5413	2	3	2	3	2	3
40	5354	3	2	3	2	3	2
41	5408	2	2	3	2	3	3
42	5415	3	2	3	2	3	3
43	5397	2	3	2	3	2	3
44	5412	3	2	3	2	3	2
45	5405	2	3	2	3	2	3
46	5410	3	2	3	2	3	2
47	5371	2	3	3	2	3	3
48	5402	3	2	3	2	3	3
49	5383	2	2	2	3	2	3
50	5384	3	2	3	2	3	2
51	5350	2	2	2	3	2	3
52	5380	3	2	3	2	3	2
53	10073	2	2	3	2	3	3
54	10072	3	2	3	2	3	3
55	10070	2	3	2	3	2	3
56	10074	3	2	3	2	3	2
57	10069	2	3	2	3	2	3
58	10071	3	2	3	2	3	2

59	5372	2	3	3	2	3	3
60	5369	3	2	3	2	3	3
61	5388	2	3	2	3	2	3
62	5407	3	2	3	2	3	2
63	5346	2	2	2	2	2	3
64	5414	3	2	3	2	3	2
65	5340	2	2	3	2	3	3
66	5356	3	2	3	2	3	3
67	5349	2	2	2	2	2	2
68	5361	3	2	3	2	3	2
69	5341	2	2	2	2	2	2
70	5370	3	2	3	2	3	2
71	5364	2	2	3	2	3	3
72	5392	3	2	3	2	3	2
73	5411	2	2	2	3	2	3
74	5400	2	2	2	3	2	3
75	5377	3	2	3	2	3	2
76	5351	2	3	3	2	3	3
77	5344	3	2	3	2	3	3
78	5398	3	3	3	3	3	3
79	5338	3	3	3	3	2	3
80	5391	2	3	3	3	3	3
81	5359	3	2	3	2	3	3
82	5409	3	3	2	3	3	3
83	5381	3	3	3	2	3	3
84	5373	3	3	2	3	3	3
85	5360	3	2	3	3	3	3
		213	195	225	196	226	224
		<b>2.54</b>	<b>2.32</b>	<b>2.68</b>	<b>2.33</b>	<b>2.69</b>	<b>2.67</b>
<b>Average Indirect Attainment</b>		<b>2.54</b>					



Faculty Sign



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**Dr. Patangrao Kadam**  
 M.A., LL. B., Ph. D.

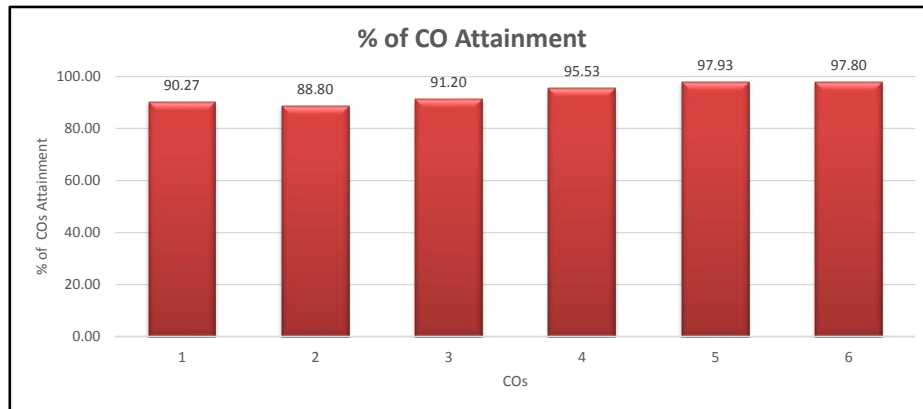
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**PRINCIPAL**  
**Dr. Vijay Ghorpade**  
 M.E., Ph. D. (Computer)

### Attainment of COs

Program: CSE		PCC-CS502: Compiler Construction			Class: TY		Semester VI	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	Recall the compiler phases and compiler construction tools like LEX and YACC	2	3	NA	3	2.75	2.54	2.71	90.27
CO2	To design and implement Lexical Analyser for a simple language	2	3	NA	3	2.75	2.32	2.66	88.80
CO3	To design and implement Syntax analyser for a simple expression	2	3	NA	3	2.75	2.68	2.74	91.20
CO4	To apply Syntax directed translations and Syntax Directed definitions to generate intermediate code	3	3	NA	3	3.00	2.33	2.87	95.53
CO5	To identify appropriate code optimizing transformation for the given code	3	3	NA	3	3.00	2.69	2.94	97.93
CO6	To explain concept of code generation	3	3	NA	3	3.00	2.67	2.93	97.80

Overall Attainment=0.8\*Direct+0.2\*Indirect



 <b>Dr. Rahul P Mirajkar</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**Attainment of POs**

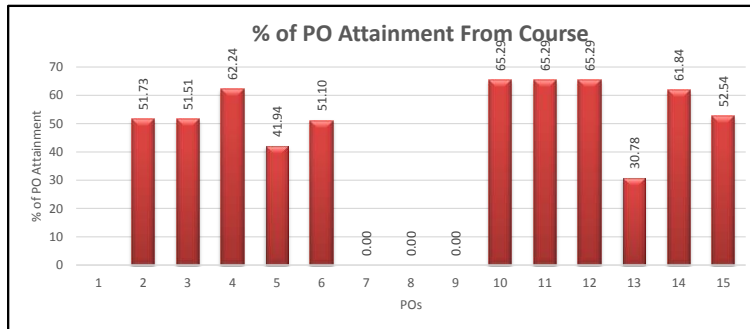
Program: CSE	PCC-CS502: Compiler Construction	Class: TY	Semester VI	Academic Year: 2021-22
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**CO-PO Mapping**

CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.71	3	2		1								1	3	1	
CO2	2.66	1	3	2	1	3							1	2	1	
CO3	2.74	2	1		1											
CO4	2.87	1	1		2	1										
CO5	2.94	1	1	2	2	1				2	2	2	1	2	3	
CO6	2.93	2	2		1									1		

**CO-PO Attainment**

CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.71	1.81		0.90								0.90	2.71	0.90	
CO2	0.89	2.66	1.78	0.89	2.66							0.89	1.78	0.89	
CO3	1.82	0.91		0.91											
CO4	0.96	0.96		1.91	0.96										
CO5	0.98	0.98	1.96	1.96	0.98				1.96	1.96	1.96	0.98	1.96	2.94	
CO6	1.96	1.96		0.98									0.98		
PO Attainment From Course	1.55	1.55	1.87	1.26	1.53	0.00	0.00	0.00	1.96	1.96	1.96	0.92	1.86	1.58	0.00
% of PO Attainment From Course	51.73	51.51	62.24	41.94	51.10	0.00	0.00	0.00	65.29	65.29	65.29	30.78	61.84	52.54	0.00



 <b>Dr. Rahul P Mirajkar</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**CIE Result Analysis: Attainment of COs**

Academic Year:2021-22			Class: TY		Semester VI
Program: CSE			PCC-CS602: Operating System- II		
Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
<b>CO</b>	CO1, CO2, CO3	CO4,CO5, CO6	<b>CO</b>	CO1, CO2, CO3	CO4, CO5, CO6
<b>Marks</b>	30	30	<b>Marks</b>	30	30
<b>Roll No</b>			<b>Roll No</b>		
1	22	20	29	22	10
2	21	13	30	14	22
3	18	16	31	26	20
4	23	18	32	20	20
5	20	21	33	21	16
6	22	16	34	13	20
7	25	24	35	12	19
8	24	21	36	14	20
9	24	19	37	18	25
10	21	21	38	24	24
11	24	22	39	28	22
12	27	16	40	28	4
13	13	19	41	AB	24
14	21	20	42	27	4
15	NA	NA	43	26	0
16	26	17	44	14	17
17	17	22	45	18	20
18	13	21	46	23	0
19	13	25	47	23	19
20	19	21	48	18	18
21	24	18	49	18	18
22	27	20	50	18	18
23	11	23	51	15	19
24	16	18	52	19	AB
25	19	20	53	23	19
26	26	24	54	21	19
27	27	23	55	12	19
28	23	20	56	17	19

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	11	11	71	6	12
58	21	19	72	24	3
59	15	9	73	20	19
60	17	17	74	8	7
61	13	17	75	9	10
62	14	11	76	9	10
63	18	19	77	24	17
64	24	21	78	13	12
65	19	22	79	12	22
66	22	19	80	19	23
67	21	19	81	23	16
68	12	10	82	22	15
69	13	23	83	21	15
70	15	22	84	13	20
			85	17	AB

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	61	66
Total No. of Students in Class	84	
CO Wise Average Percentage Attainment*	72.62	78.57
Attainment Level**	3	3

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

 <b>Ms.A. M. Yadav</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**ESE Result Analysis: Attainment of COs**

Academic Year:2021-22				Class:TY				Semester VI			
Program: CSE				PCC-CS602: Operating System- II							
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							
2019076559	70	NA	24	2019076541	70	NA	18				
2019076587	70	NA	19	2019076569	70	NA	21				
2019076547	67	NA	22	2020074825	64	NA	15				
2019087948	67	NA	23	2020074819	70	NA	14				
2019076566	70	NA	17	2019076950	70	NA	21				
2020074829	70	NA	22	2019076543	70	NA	18				
2020074833	70	NA	24	2019076550	70	NA	20				
2020074821	67	NA	19	2019076572	70	NA	18				
2020075111	70	NA	21	2019076558	70	NA	17				
2020074820	70	NA	17	2019081151	70	NA	21				
2019076585	70	NA	20	2019076560	70	NA	23				
2019076546	70	NA	22	2019076586	67	NA	19				
2019076565	70	NA	20	2019076586	67	NA	19				
2019076553	70	NA	22	2019076578	70	NA	23				
2019076571	70	NA	23	2019081149	62	NA	15				
2019076567	70	NA	22	2018087088	70	NA	19				
2020074830	70	NA	23	2019074312	70	NA	21				
2019076549	70	NA	18	2018087079	70	NA	20				
2019076549	70	NA	18	2017050857	70	NA	23				
2020074811	67	NA	24	2017050865	67	NA	19				
2019076561	70	NA	21	2017053265	70	NA	23				
2019076556	70	NA	23	2019076589	70	NA	21				
2019076577	70	NA	17	2019076545	70	NA	23				
2019081154	70	NA	19	2019076564	67	NA	17				
2019076542	70	NA	22	2019076540	70	NA	17				
2019076576	70	NA	17	2019076557	67	NA	15				
2019076575	70	NA	16	2020074813	67	NA	24				
2019076541	70	NA	18	2019076583	70	NA	22				




Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5, CO6		
<b>Marks</b>	70	50	25
<b>PRN</b>			
2019076554	70	NA	20
2019076579	62	NA	21
2018087117	70	NA	19
2018087126	70	NA	18
2019076471	70	NA	21
2019076552	70	NA	21
2019076789	70	NA	23
2020074827	70	NA	21
2020074823	70	NA	22
2020074815	70	NA	22
2019081152	62	NA	24
2019076562	64	NA	23
2019076573	70	NA	20
2018087033	70	NA	19
2019076574	70	NA	21
2019076538	70	NA	21

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5, CO6		
<b>Marks</b>	70	50	25
<b>PRN</b>			
2017050539	67	NA	15
2018087059	67	NA	15
2019076578	70	NA	23
2018087115	70	NA	16
2017050510	70	NA	17
2019087947	70	NA	18
2020074835	67	NA	24
2020074824	67	NA	15
2020074816	67	NA	21
2020074810	70	NA	18
2020074834	70	NA	22
2020074836	70	NA	24
2020074826	70	NA	23
2020074831	70	NA	20
2017050835	67	NA	22

Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5, CO6		
<b>Marks</b>	70	NA	25
<b>Threshold %</b>	95	NA	72
<b>Threshold Marks</b>	66.5	NA	18
<b>No. of Students Above Threshold Marks</b>	82	NA	70
<b>Total No. of Students in Class</b>	84	NA	84
<b>CO Wise Average Percentage Attainment*</b>	97.62	NA	83.33
<b>Attainment Level**</b>	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

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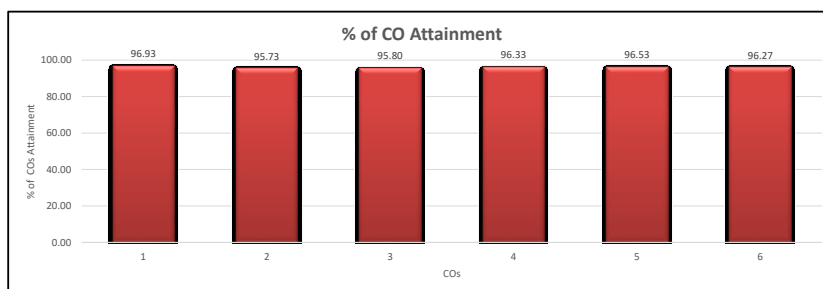
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**Attainment of COs**

Program: CSE		PCC-CS602: Operating System- II		Class: TY		Semester VI		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				
Weightage		0.25	0.5	NA	0.25				
CO1	To understand UNIX kernel, its architectural components like file subsystem, process control subsystem, memory management.	3	3	NA	3	3.00	2.91	96.93	
CO2	To understand a concrete way (UNIX i-nodes) of organizing a file system on a physical storage medium.	3	3	NA	3	3.00	2.87	95.73	
CO3	To maintain UNIX directories, files, manage processes, manipulate data with proper use of pipes and file redirection, UNIX filters.	3	3	NA	3	3.00	2.87	95.80	
CO4	To implement and handle various UNIX system calls.	3	3	NA	3	3.00	2.89	96.33	
CO5	To explain the principles of paging, virtual memory (VM) and describe the data structures and components (both hardware and software) that are necessary to implement it.	3	3	NA	3	3.00	2.90	96.53	
CO6	To perform shell programming involving decision control, looping and control flow statements on UNIX based machines.	3	3	NA	3	3.00	2.89	96.27	

Overall Attainment=0.8\*Direct+0.2\*Indirect



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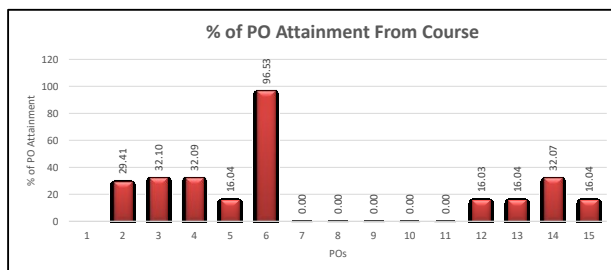
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**Attainment of POs**

Program: CSE	PCC-CS602: Operating System- II	Class: TY	Semester VI	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	2.91	2	2	2	1							1	1	2	1	2
CO2	2.87	2	2	2	1		2					1	1	2	1	2
CO3	2.87	2	2	2	1		2					1	1	2	1	2
CO4	2.89	2	2	2	1		3					1	1	2	1	2
CO5	2.90	1	3	2	1	3							1			
CO6	2.89	2	1		1										1	

CO-PO Attainment																
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	1.94	1.94	1.94	0.97							0.97	0.97	1.94	0.97	1.94	
CO2	1.91	1.91	1.91	0.96		1.91					0.96	0.96	1.91	0.96	1.91	
CO3	1.92	1.92	1.92	0.96		1.92					0.96	0.96	1.92	0.96	1.92	
CO4	1.93	1.93	1.93	0.96		2.89					0.96	0.96	1.93	0.96	1.93	
CO5	0.97	2.90	1.93	0.97	2.90							0.97				
CO6	1.93	0.96		0.96											0.96	
PO Attainment From Course	1.76	1.93	1.93	0.96	2.90	0.00	0.00	0.00	0.00	0.00	0.96	0.96	1.92	0.96	0.00	
% of PO Attainment From Course	29.41	32.10	32.09	16.04	96.53	0.00	0.00	0.00	0.00	0.00	16.03	16.04	32.07	16.04	0.00	



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*COURSE EXIT SURVEY*

Academic Year:2021-22	Class: TY	Semester VII
Program: CSE	PCC-CS602: Operating System- II	

Name of Student: \_\_\_\_\_ Roll NO: \_\_\_\_\_

After the completion of the course PCC-CS602: Operating System- II Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Explain UNIX kernel, its architectural components like file subsystem, process control subsystem, memory management.

Rate \_\_\_\_\_

CO2 Q2. Explain the different ways (UNIX i-nodes) of organizing a file system on a physical storage medium.

Rate \_\_\_\_\_

CO3 Q3. Explain how to maintain UNIX directories, files, manage processes, manipulate data with proper use of pipes and file redirection, UNIX filters.

Rate \_\_\_\_\_

CO4 Q4. Explain how to implement and handle various UNIX system calls.

Rate \_\_\_\_\_

CO5 Q5. Explain the principles of paging, virtual memory (VM) and describe the data structures and components (both hardware and software) that are necessary to implement it.

Rate \_\_\_\_\_

CO6 Q6. Write implementation shell programming involving decision control, looping and control flow statements on UNIX based machines.

Rate \_\_\_\_\_

CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

Faculty Sign

Academic Year:2021-22		Class: TY				Semester VI	
Program: CSE		PCC-CS602: Operating System- II					
Roll No	PRN	C01	C02	C03	C04	C05	C06
1	2019076559	3	3	3	3	2	3
2	2019076587	3	3	3	3	3	3
3	2019076547	3	3	3	3	2	3
4	2019087948	3	2	3	3	3	3
5	2019076566	2	3	2	3	2	2
6	2020074829	3	2	2	3	2	2
7	2020074833	3	3	3	2	3	3
8	2020074821	2	2	3	3	3	2
9	2020075111	3	3	2	3	3	2
10	2020074820	2	2	2	3	2	2
11	2019076585	3	3	2	2	3	2
12	2019076546	3	2	2	3	3	2
13	2019076565	2	2	2	3	3	3
14	2019076553	3	2	2	2	3	2
15	2019076571	2	2	2	3	3	3
16	2019076567	3	3	3	2	2	2
17	2020074830	3	2	2	3	3	2
18	2019076549	2	2	3	3	3	3
19	2019076549	2	3	2	3	3	2
20	2020074811	3	2	3	3	2	2
21	2019076561	3	2	3	2	2	3
22	2019076556	3	2	3	3	3	2
23	2019076577	3	3	2	3	2	3
24	2019081154	2	2	2	3	3	2
25	2019076542	2	2	3	3	3	3
26	2019076576	3	2	2	2	2	3
27	2019076575	2	2	3	3	3	3
28	2019076541	3	3	2	3	3	2
29	2019076541	3	3	3	2	2	3
30	2019076569	3	2	2	3	3	2
31	2020074825	2	2	3	2	2	3
32	2020074819	3	2	3	3	3	2
33	2019076950	3	2	3	2	2	3
34	2019076543	3	3	2	3	3	3
35	2019076550	2	2	3	2	2	2
36	2019076572	3	3	2	3	2	3
37	2019076558	2	2	2	3	2	3
38	2019081151	3	2	2	2	2	3
39	2019076560	2	3	2	2	2	3
40	2019076586	3	2	2	2	3	2
41	2019076586	2	3	2	2	2	2
42	2019076578	3	3	3	2	2	3
43	2019081149	2	2	2	2	3	2
44	2018087088	2	3	3	3	3	3
45	2019074312	2	2	2	3	3	3
46	2018087079	2	2	2	2	2	2
47	2017050857	2	2	2	2	3	2
48	2017050865	2	2	2	2	2	2
49	2017053265	3	2	2	3	2	3
50	2019076589	2	2	2	3	3	3
51	2019076545	3	3	2	2	2	3
52	2019076564	2	3	3	3	3	2
53	2019076540	3	2	3	2	2	3
54	2019076557	3	3	3	2	3	2
55	2020074813	2	3	2	2	2	3
56	2019076583	3	2	3	2	3	3
57	2019076554	2	2	2	2	2	3
58	2019076579	2	3	2	3	3	2
59	2018087117	3	2	2	2	3	2
60	2018087126	2	3	3	3	2	2
61	2019076471	2	2	2	2	2	3
62	2019076552	2	2	2	2	3	2
63	2019076789	2	2	2	2	2	3
64	2020074827	2	3	3	3	2	2
65	2020074823	2	2	3	2	2	2
66	2020074815	3	3	2	2	3	2
67	2019081152	3	2	2	2	2	2
68	2019076562	3	2	2	2	2	2
69	2019076573	2	2	3	2	2	3



70	2018087033	3	3	2	3	3	2
71	2019076574	2	2	2	2	2	1
72	2019076538	2	2	2	2	3	2
73	2017050539	2	2	2	2	2	2
74	2018087059	3	2	2	2	3	3
75	2019076578	2	2	2	2	2	2
76	2018087115	3	2	2	2	2	2
77	2017050510	2	2	3	2	2	3
78	2019087947	3	2	2	2	2	2
79	2020074835	3	3	3	3	3	2
80	2020074824	3	2	2	2	2	2
81	2020074816	2	2	2	2	3	2
82	2020074826	3	2	2	2	2	2
83	2020074831	3	3	2	2	2	3
84	2017050835	3	3	3	3	3	3
		213	198	199	206	208	205
		<b>2.54</b>	<b>2.36</b>	<b>2.37</b>	<b>2.45</b>	<b>2.48</b>	<b>2.44</b>
<b>Average Indirect Attainment</b>		<b>2.44</b>					

Am.



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COLLEGE OF ENGINEERING, KOLHAPUR**

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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**

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>PCC- CS603 Database Engineering</b>	

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




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

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Roll Number		
57	AB	16
58	26	16
59	25	15
60	23	22
61	17	22
62	17	19
63	17	24
64	20	20
65	26	16
66	28	6
67	28	23
68	16	14
69	23	19
70	27	19

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2,CO3	CO4, CO5,CO6
Marks	30	30
Roll Number		
71	21	17
72	26	23
73	22	16
74	22	22
75	18	16
76	23	12
77	19	23
78	20	21
79	20	23
80	27	23
81	23	19
82	28	29
83	25	23
84	18	27
85	22	AB

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	74	43
Total No. of Students in Class	85	
CO Wise Average Percentage Attainment*	87.06	50.59
Attainment Level**	3	2

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

 <b>Mrs. Pooja R. Patil</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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M.A., LL. B., Ph. D.

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

<b>Academic Year:2021-22</b>	<b>Class:TY</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>PCC- CS603 Database Engineering</b>	

Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4,CO5,CO6			<b>CO</b>	CO1, CO2, CO3, CO4,CO5,CO6		
<b>Marks</b>	70	50	25	<b>Marks</b>	70	50	25
<b>PRN</b>				<b>PRN</b>			
2019076559	70	40	20	2019076541	67	38	20
2019076587	70	37	20	2019076569	70	33	19
2019076547	67	39	25	2020074825	64	35	14
2019087948	70	44	23	2020074819	62	35	19
2019076566	64	35	21	2019076950	67	40	21
2020074829	64	45	24	2019076543	64	38	21
2020074833	67	23	23	2019076550	70	36	20
2020074821	70	39	21	2019076572	67	35	20
2020075111	67	43	24	2019076558	70	18	20
2020074820	67	39	20	2019081151	64	30	18
2019076585	70	42	21	2019076560	70	40	20
2019076546	70	39	21	2019076586	67	37	19
2019076565	64	39	22	2019076586	67	37	19
2019076553	70	39	20	2019076578	67	35	19
2019076571	67	37	20	2019081149	70	22	15
2019076567	67	42	23	2018087088	64	40	22
2020074830	67	39	21	2019074312	67	42	23
2019076549	67	40	22	2018087079	70	39	19
2019076549	67	40	22	2017050857	70	37	20
2020074811	70	41	22	2017050865	70	40	22
2019076561	70	39	20	2017053265	67	39	22
2019076556	67	45	24	2019076589	67	39	21
2019076577	70	34	17	2019076545	70	38	22
2019081154	70	37	21	2019076564	64	41	23
2019076542	67	41	21	2019076540	67	38	21
2019076576	70	33	17	2019076557	64	35	18
2019076575	67	37	20	2020074813	67	40	22
2019076541	67	38	20	2019076583	70	38	19




Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2019076554	70	37	20
2019076579	64	32	17
2018087117	64	39	21
2018087126	56	38	21
2019076471	64	42	23
2019076552	70	35	18
2019076789	70	45	24
2020074827	70	39	21
2020074823	67	39	22
2020074815	67	37	19
2019081152	62	41	22
2019076562	64	36	20
2019076573	67	43	23
2018087033	70	33	19
2019076574	64	43	22
2019076538	67	44	23

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
PRN			
2017050539	67	22	15
2018087059	70	38	19
2019076578	67	35	19
2018087115	70	38	17
2017050510	67	30	17
2019087947	70	34	18
2020074835	67	40	21
2020074824	67	35	19
2020074816	70	33	18
2020074810	62	35	19
2020074834	64	41	21
2020074836	70	42	23
2020074826	70	39	22
2020074831	70	39	21
2017050835	67	33	21

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5, CO6		
Marks	70	50	25
Threshold %	90	70	72
Threshold Marks	63	35	18
No. of Students Above Threshold Marks	83	73	79
Total No. of Students in Class	87	87	87
CO Wise Average Percentage Attainment*	95.40	83.91	90.80
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. Pooja R. Patil Course Coordinator	 Mrs. S.M. Mulla HoD	 Dr. Vijay R. Ghorpade Principal
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**COURSE EXIT SURVEY**

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>PCC- CS603 Database Engineering</b>	

Name of Student: \_\_\_\_\_

Roll NO: \_\_\_\_\_

After the completion of the course PCC- CS603 Database Engineering Do you think following outcomes are achieved.Then rate the achievement on point scale of (0 -3, 0: Lowest 3:Highest)

**CO1 Q1. Understand fundamentals of database management systems**

Rate\_\_\_\_\_

**CO2 Q2. Represent logical design of database using E-R Diagram**

Rate\_\_\_\_\_

**CO3 Q3. Analyze & construct good database design**

Rate\_\_\_\_\_

**CO4 Q4. Apply SQL queries to design & manage the database**

Rate\_\_\_\_\_

**CO5 Q5. Understand transactions, concurrency control and apply to database system**

Rate\_\_\_\_\_

**CO6 Q6. Understand failures in database and appropriate recovery techniques**

Rate\_\_\_\_\_


CO	CO1	CO2	CO3	CO4	CO5	CO6
Rate Given						

  
**Faculty Sign**

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>PCC- CS603</b>	

Roll No	PRN	CO1	CO2	CO3	CO4	CO5	CO6
1	2019076559	3	2	3	2	3	2
2	2019076587	2	3	2	3	2	3
3	2019076547	3	2	3	2	3	2
4	2019087948	2	3	3	2	3	2
5	2019076566	3	2	3	2	3	2
6	2020074829	2	2	2	3	2	3
7	2020074833	3	2	3	2	3	2
8	2020074821	2	3	2	3	2	3
9	2020075111	3	2	3	2	3	2
10	2020074820	2	3	3	2	3	2
11	2019076585	3	2	3	2	3	2
12	2019076546	2	3	2	3	2	3
13	2019076565	3	2	3	2	3	2
14	2019076553	2	2	2	3	2	3
15	2019076571	3	2	3	2	3	2
16	2019076567	2	3	3	2	3	2
17	2020074830	3	2	3	2	3	2
18	2019076549	2	3	2	3	2	3
19	2019076549	3	2	3	2	3	2
20	2020074811	2	3	2	3	2	3
21	2019076561	3	2	3	2	3	2
22	2019076556	2	3	3	2	3	2
23	2019076577	3	2	3	2	3	2
24	2019081154	2	3	2	3	2	3
25	2019076542	3	2	3	2	3	2
26	2019076576	2	3	2	3	2	3
27	2019076575	3	2	3	2	3	2
28	2019076541	2	2	3	2	3	2
29	2019076541	3	2	3	2	3	2
30	2019076569	2	2	2	3	2	3
31	2020074825	3	2	3	2	3	2
32	2020074819	2	2	2	3	2	3
33	2019076950	3	2	3	2	3	2
34	2019076543	2	2	3	2	3	2
35	2019076550	3	2	3	2	3	2
36	2019076572	2	3	2	3	2	3
37	2019076558	3	2	3	2	3	2
38	2019081151	2	3	2	3	2	3
39	2019076560	3	2	3	2	3	2
40	2019076586	2	2	3	2	3	2
41	2019076586	3	2	3	2	3	2
42	2019076578	2	3	2	3	2	3
43	2019081149	3	2	3	2	3	2
44	2018087088	2	3	2	3	2	3
45	2019074312	3	2	3	2	3	2
46	2018087079	2	3	3	2	3	2

47	2017050857	3	2	3	2	3	2
48	2017050865	2	2	2	3	2	3
49	2017053265	3	2	3	2	3	2
50	2019076589	2	2	2	3	2	3
51	2019076545	3	2	3	2	3	2
52	2019076564	2	2	3	2	3	2
53	2019076540	3	2	3	2	3	2
54	2019076557	3	3	2	3	2	2
55	2020074813	3	2	3	2	3	2
56	2019076583	3	3	2	3	2	2
57	2019076554	3	2	3	2	3	2
58	2019076579	3	3	3	2	3	2
59	2018087117	3	2	3	2	3	2
60	2018087126	2	3	2	3	2	2
61	2019076471	3	2	3	2	3	2
62	2019076552	2	2	2	2	2	2
63	2019076789	3	2	3	2	3	2
64	2020074827	3	2	3	2	3	2
65	2020074823	3	2	3	2	3	2
66	2020074815	2	2	2	2	2	2
67	2019081152	3	2	3	2	3	2
68	2019076562	2	2	2	2	2	2
69	2019076573	3	2	3	2	3	2
70	2018087033	2	2	3	2	3	2
71	2019076574	3	2	3	2	3	2
72	2019076538	3	2	2	3	2	3
73	2017050539	3	2	2	3	2	3
74	2018087059	3	2	3	2	3	2
75	2019076578	3	3	3	2	3	2
76	2018087115	3	2	3	2	3	2
77	2017050510	3	2	3	2	2	2
78	2019087947	3	2	2	3	2	3
79	2020074835	3	2	2	3	2	3
80	2020074824	3	2	3	2	2	2
81	2020074816	3	3	3	2	3	2
82	2020074810	3	2	2	3	2	3
83	2020074834	3	2	3	2	2	2
84	2020074836	2	3	3	2	3	2
		220	191	224	193	221	190
		<b>2.62</b>	<b>2.27</b>	<b>2.67</b>	<b>2.30</b>	<b>2.63</b>	<b>2.26</b>
<b>Average Indirect Attainment</b>		<b>2.46</b>					

  
Faculty Sign





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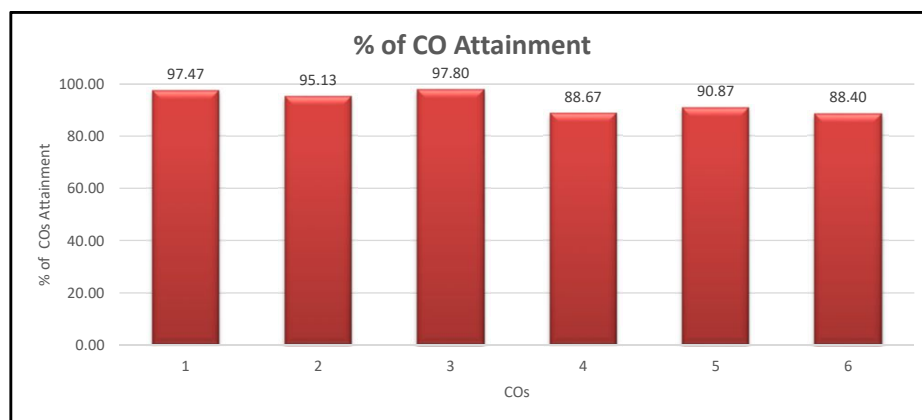
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### Attainment of COs

Program: CSE		PCC- CS603 Database Engineering			Class: TY		Semester VI	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	Understand fundamentals of database management systems	3	3	3	3	3.00	2.62	2.92	97.47
CO2	Represent logical design of database using E-R Diagram	3	3	3	3	3.00	2.27	2.85	95.13
CO3	Analyze & construct good database design	3	3	3	3	3.00	2.67	2.93	97.80
CO4	Apply SQL queries to design & manage the database	2	3	3	3	2.75	2.30	2.66	88.67
CO5	Understand transactions, concurrency control and apply to database system	2	3	3	3	2.75	2.63	2.73	90.87
CO6	Understand failures in database and appropriate recovery techniques	2	3	3	3	2.75	2.26	2.65	88.40

Overall Attainment=0.8\*Direct+0.2\*Indirect



 <b>Mrs. Pooja R. Patil</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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## BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR

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

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Near Chitranagari, Kolhapur - 416013 (MS)

DTE INSTITUTE CODE : EN-6288  
Tel.No.: (0231) 2638893, 2638894, Fax : 2636050  
Web : <http://coekolhapur.bharatividyaapeeth.edu>

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

### Attainment of POs

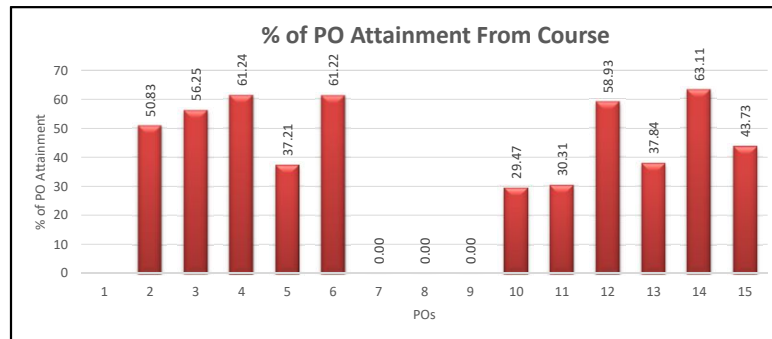
Program: CSE	PCC- CS603 Database Engineering	Class: TY	Semester VI	Academic Year: 2021-22
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### CO-PO Mapping

CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.92	3	2		1								1	3	1	
CO2	2.85	1	3	2	1	3							1	2	1	
CO3	2.93	2	1		1								2	1	2	
CO4	2.66		2	2		2										
CO5	2.73	1			1						1		1		1	
CO6	2.65	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	2.92	1.95		0.97								0.97	2.92	0.97	
CO2	0.95	2.85	1.90	0.95	2.85							0.95	1.90	0.95	
CO3	1.96	0.98		0.98								1.96	0.98	1.96	
CO4		1.77	1.77		1.77										
CO5	0.91			0.91						0.91		0.91		0.91	
CO6	0.88	0.88		1.77	0.88				0.88		1.77	0.88	1.77	1.77	
PO Attainment From Course	1.52	1.69	1.84	1.12	1.84	0.00	0.00	0.00	0.88	0.91	1.77	1.14	1.89	1.31	0.00
% of PO Attainment From Course	50.83	56.25	61.24	37.21	61.22	0.00	0.00	0.00	29.47	30.31	58.93	37.84	63.11	43.73	0.00



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FOUNDER & CHANCELLOR

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PRINCIPAL

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**CIE Result Analysis: Attainment of COs**

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>PCC-CS604: Machine Learning</b>	




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

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Roll Number		
29	30	AB
30	30	AB
31	29	21
32	29	AB
33	29	AB
34	29	6
35	29	AB
36	29	17
37	26	AB
38	26	AB
39	30	15
40	30	AB
41	AB	21
42	29	AB
43	25	21
44	21	17
45	30	AB
46	23	AB
47	28	14
48	27	21
49	28	12
50	29	12
51	21	16
52	24	AB
53	30	15
54	23	15
55	23	12

28	30	23	56	22	14
<b>Exam</b>	<b>CIE: Mid Term Test</b>	<b>CIE: End Term Test</b>	<b>Exam</b>	<b>CIE: Mid Term Test</b>	<b>CIE: End Term Test</b>
<b>CO</b>	CO1, CO2	CO3, CO4	<b>CO</b>	CO1, CO2	CO3, CO4
<b>Marks</b>	30	30	<b>Marks</b>	30	30
<b>Roll Number</b>			<b>Roll Number</b>		
57	AB	AB	71	18	18
58	29	9	72	23	25
59	25	9	73	25	15
60	28	5	74	21	13
61	7	13	75	15	12
62	18	11	76	21	14
63	25	4	77	26	23
64	28	9	78	23	12
65	27	AB	79	27	13
66	25	12	80	26	23
67	30	12	81	26	19
68	21	13	82	28	25
69	26	19	83	29	21
70	29	19	84	23	15
			85	30	AB

Exam	CIE: Mid Term Test	CIE: End Term Test
<b>CO</b>	<b>CO1, CO2</b>	<b>CO3, CO4</b>
<b>Marks</b>	<b>30</b>	<b>30</b>
<b>Threshold %</b>	60	
<b>Threshold Marks</b>	18	18
<b>No. of Students Above Threshold Marks</b>	83	48
<b>Total No. of Students in Class</b>	85	
<b>CO Wise Average Percentage Attainment*</b>	97.65	56.47
<b>Attainment Level**</b>	3	2

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

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

<b>Academic Year:2021-22</b>	<b>Class:TY</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>PCC-CS604: Machine Learning</b>	




Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4			<b>CO</b>	CO1, CO2, CO3, CO4		
<b>Marks</b>	70	NA	25	<b>Marks</b>	70	NA	25
<b>PRN</b>				<b>PRN</b>			
2019076559	64	NA	20	2019076541	70	NA	21
2019076587	64	NA	20	2019076569	64	NA	19
2019076547	64	NA	23	2020074825	64	NA	19
2019087948	64	NA	23	2020074819	64	NA	18
2019076566	62	NA	20	2019076950	64	NA	20
2020074829	67	NA	23	2019076543	67	NA	21
2020074833	67	NA	23	2019076550	67	NA	19
2020074821	67	NA	20	2019076572	67	NA	19
2020075111	67	NA	23	2019076558	70	NA	20
2020074820	70	NA	21	2019081151	62	NA	19
2019076585	64	NA	20	2019076560	64	NA	21
2019076546	62	NA	20	2019076586	62	NA	18
2019076565	67	NA	21	2019076586	62	NA	18
2019076553	64	NA	20	2019076578	67	NA	18
2019076571	67	NA	20	2019081149	62	NA	15
2019076567	67	NA	22	2018087088	64	NA	22
2020074830	62	NA	20	2019074312	64	NA	22
2019076549	62	NA	21	2018087079	67	NA	20
2019076549	62	NA	30	2017050857	67	NA	20
2020074811	64	NA	22	2017050865	64	NA	21
2019076561	64	NA	19	2017053265	64	NA	21
2019076556	59	NA	24	2019076589	64	NA	21
2019076577	64	NA	17	2019076545	64	NA	21
2019081154	70	NA	20	2019076564	70	NA	22
2019076542	64	NA	20	2019076540	64	NA	20
2019076576	62	NA	18	2019076557	62	NA	18
2019076575	67	NA	21	2020074813	67	NA	21
2019076541	70	NA	21	2019076583	67	NA	18

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	50	25
PRN			
2019076554	67	NA	20
2019076579	62	NA	17
2018087117	64	NA	21
2018087126	64	NA	21
2019076471	67	NA	22
2019076552	64	NA	18
2019076789	70	NA	24
2020074827	64	NA	20
2020074823	64	NA	21
2020074815	64	NA	19
2019081152	64	NA	22
2019076562	67	NA	20
2019076573	53	NA	23
2018087033	67	NA	18
2019076574	62	NA	21
2019076538	64	NA	22

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	50	25
PRN			
2017050539	56	NA	15
2018087059	64	NA	19
2019076578	67	NA	18
2018087115	64	NA	17
2017050510	62	NA	19
2019087947	64	NA	17
2020074835	70	NA	21
2020074824	64	NA	20
2020074816	64	NA	17
2020074810	64	NA	18
2020074834	70	NA	20
2020074836	67	NA	22
2020074826	64	NA	22
2020074831	67	NA	20
2017050835	64	NA	21

Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4		
Marks	70	NA	25
Threshold %	86	NA	72
Threshold Marks	60	NA	18
No. of Students Above Threshold Marks	84	NA	80
Total No. of Students in Class	87	NA	87
CO Wise Average Percentage Attainment*	96.55	NA	91.95
Attainment Level**	3	NA	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	3	NA	3	
CO2	3	NA	3	
CO3	3	NA	3	
CO4	3	NA	3	

 <b>Mr. Vijay D. Chougule</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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PRINCIPAL

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

**COURSE EXIT SURVEY**

Academic Year:2021-22	Class: TY	Semester VI
Program: CSE	PCC-CS604: Machine Learning	

Name of Student: \_\_\_\_\_

Roll NO: \_\_\_\_\_

After the completion of the course PCC-CS604: Machine Learning Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

CO1 Q1. Explain Machine Learning concepts

Rate \_\_\_\_\_

CO2 Q2. Analyze the Machine Learning model

Rate \_\_\_\_\_

CO3 Q3. Design solution using Machine Learning techniques

Rate \_\_\_\_\_

CO4 Q4. To tackle real world problems in domain of data mining, information retrieval, computer vision, linguistics and bioinformatics, etc.

Rate \_\_\_\_\_

CO	CO1	CO2	CO3	CO4
Rate Given				

Faculty Sign

<b>Academic Year:2021-22</b>	<b>Class: TY</b>	<b>Semester V</b>			
<b>Program: CSE</b>	<b>PCC-CS604: Machine Learning</b>				

Roll No	PRN	CO1	CO2	CO3	CO4
1	2019076559	3	2	3	2
2	2019076587	2	3	2	3
3	2019076547	3	2	3	2
4	2019087948	2	3	3	2
5	2019076566	3	2	3	2
6	2020074829	2	2	2	3
7	2020074833	3	2	3	2
8	2020074821	2	3	2	3
9	2020075111	3	2	3	2
10	2020074820	2	3	3	2
11	2019076585	3	2	3	2
12	2019076546	2	3	2	3
13	2019076565	3	2	3	2
14	2019076553	2	2	2	3
15	2019076571	3	2	3	2
16	2019076567	2	3	3	2
17	2020074830	3	2	3	2
18	2019076549	2	3	2	3
19	2019076549	3	2	3	2
20	2020074811	2	3	2	3
21	2019076561	3	2	3	2
22	2019076556	2	3	3	2
23	2019076577	3	2	3	2
24	2019081154	2	3	2	3
25	2019076542	3	2	3	2
26	2019076576	2	3	2	3
27	2019076575	3	2	3	2
28	2019076541	2	2	3	2
29	2019076541	3	2	3	2
30	2019076569	2	2	2	3
31	2020074825	3	2	3	2
32	2020074819	2	2	2	3
33	2019076950	3	2	3	2
34	2019076543	2	2	3	2
35	2019076550	3	2	3	2
36	2019076572	2	3	2	3
37	2019076558	3	2	3	2
38	2019081151	2	3	2	3
39	2019076560	3	2	3	2
40	2019076586	2	2	3	2
41	2019076586	3	2	3	2
42	2019076578	2	3	2	3
43	2019081149	3	2	3	2



44	2018087088	2	3	2	3
45	2019074312	3	2	3	2
46	2018087079	2	3	3	2
47	2017050857	3	2	3	2
48	2017050865	2	2	2	3
49	2017053265	3	2	3	2
50	2019076589	2	2	2	3
51	2019076545	3	2	3	2
52	2019076564	2	2	3	2
53	2019076540	3	2	3	2
54	2019076557	3	3	2	3
55	2020074813	3	2	3	2
56	2019076583	3	3	2	3
57	2019076554	3	2	3	2
58	2019076579	3	3	3	2
59	2018087117	3	2	3	2
60	2018087126	2	3	2	3
61	2019076471	3	2	3	2
62	2019076552	2	2	2	2
63	2019076789	3	2	3	2
64	2020074827	3	2	3	2
65	2020074823	3	2	3	2
66	2020074815	2	2	2	2
67	2019081152	3	2	3	2
68	2019076562	2	2	2	2
69	2019076573	3	2	3	2
70	2018087033	2	2	3	2
71	2019076574	3	2	3	2
72	2019076538	3	2	2	3
73	2017050539	3	2	2	3
74	2018087059	3	2	3	2
75	2019076578	3	3	3	2
76	2018087115	3	2	3	2
77	2017050510	3	2	3	2
78	2019087947	3	2	2	3
79	2020074835	3	2	2	3
80	2020074824	3	2	3	2
81	2020074816	3	3	3	2
82	2020074810	3	2	2	3
83	2020074834	3	2	3	2
84	2020074836	2	3	3	2
		220	191	224	193
		<b>2.62</b>	<b>2.27</b>	<b>2.67</b>	<b>2.30</b>
<b>Average Indirect Attainment</b>		<b>2.46</b>			



Faculty Sign



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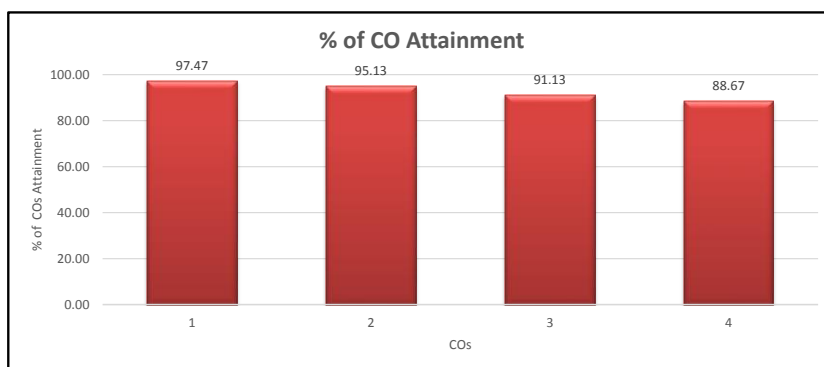
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### Attainment of COs

Program: CSE		PCC-CS604: Machine Learning				Class: TY	Semester VI	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	Explain Machine Learning concepts	3	3	NA	3	3.00	2.62	2.92	97.47
CO2	Analyze the Machine Learning model	3	3	NA	3	3.00	2.27	2.85	95.13
CO3	Design solution using Machine Learning techniques	2	3	NA	3	2.75	2.67	2.73	91.13
CO4	To tackle real world problems in domain of data mining, information retrieval, computer vision, linguistics and bioinformatics, etc.	2	3	NA	3	2.75	2.30	2.66	88.67

Overall Attainment=0.8\*Direct+0.2\*Indirect



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### Attainment of POs

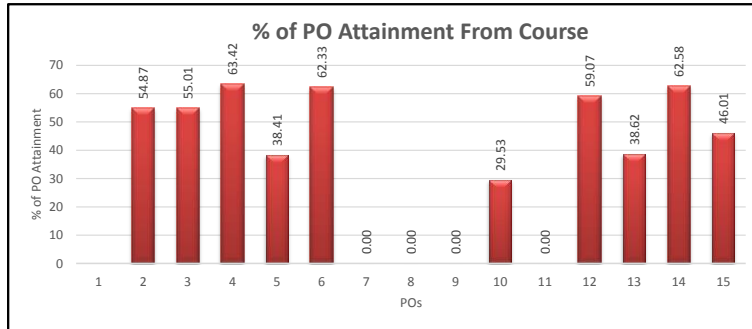
Program: CSE	PCC-CS604: Machine Learning	Class: TY	Semester VI	Academic Year: 2021-22
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### CO-PO Mapping

CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.92	3	2		1								1	3	1	
CO2	2.85	1	3	2	1	3							1	2	1	
CO3	2.73	2	1		1								2	1	2	
CO4	2.66	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	2.92	1.95		0.97								0.97	2.92	0.97	
CO2	0.95	2.85	1.90	0.95	2.85							0.95	1.90	0.95	
CO3	1.82	0.91		0.91								1.82	0.91	1.82	
CO4	0.89	0.89		1.77	0.89				0.89		1.77	0.89	1.77	1.77	
PO Attainment From Course	1.65	1.65	1.90	1.15	1.87	0.00	0.00	0.00	0.89	0.00	1.77	1.16	1.88	1.38	0.00
% of PO Attainment From Course	54.87	55.01	63.42	38.41	62.33	0.00	0.00	0.00	29.53	0.00	59.07	38.62	62.58	46.01	0.00



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

**CIE Result Analysis: Attainment of COs**

<b>Academic Year:2021-22</b>	<b>Class:TY</b>	<b>Semester VI</b>
<b>Program: CSE</b>	<b>OEC - CS606): Cyber Security</b>	

Exam	CIE: Mid Term Test	CIE: End Term Test
<b>CO</b>	CO1, CO2, CO3	CO4, CO5
<b>Marks</b>	30	30
<b>Roll Number</b>		
1	21	28
2	18	30
3	18	30
4	21	30
5	18	28
6	19	28
7	24	28
8	20	28
9	23	24
10	25	30
11	22	28
12	21	28
13	10	28
14	16	28
15	14	24
16	29	28
17	20	26
18	27	26
19	19	28
20	25	28
21	20	28
22	27	28
23	20	28
24	24	28
25	23	30
26	22	26
27	22	26
28	23	26

Exam	CIE: Mid Term Test	CIE: End Term Test
<b>CO</b>	CO1, CO2, CO3	CO4, CO5
<b>Marks</b>	30	30
<b>Roll Number</b>		
29	21	26
30	24	26
31	19	28
32	27	28
33	26	28
34	23	28
35	22	28
36	22	28
37	21	28
38	27	28
39	20	28
40	24	28
41	18	28
42	24	28
43	25	28
44	25	28
45	26	28
46	19	28
47	18	28
48	17	28
49	13	28
50	15	28
51	14	28
52	27	28
53	24	30
54	25	28
55	22	28
56	21	28

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		
57	30	30	71	19	28
58	28	28	72	19	28
59	28	28			
60	28	28			
61	28	28			
62	28	28			
63	30	30			
64	28	28			
65	28	28			
66	28	28			
67	30	30			
68	28	28			
69	26	26			
70	28	28			
<b>Exam</b>	<b>CIE: Mid Term Test</b>		<b>CIE: End Term Test</b>		
<b>CO</b>	<b>CO1, CO2, CO3</b>		<b>CO4, CO5, CO6</b>		
<b>Marks</b>	<b>30</b>		<b>30</b>		
<b>Threshold %</b>	<b>40</b>				
<b>Threshold Marks</b>	<b>12</b>		<b>12</b>		
<b>No. of Students Above Threshold Marks</b>	<b>71</b>		<b>72</b>		
<b>Total No. of Students in Class</b>	<b>72</b>				
<b>CO Wise Average Percentage Attainment*</b>	<b>98.61</b>		<b>100</b>		
<b>Attainment Level**</b>	<b>3</b>		<b>3</b>		
<b>CO</b>	<b>Average Attainment Level**</b>	<p><b>* Calculate CO wise Percentage Attainment Level Manually</b>  <b>** Enter the level of Attainment as per Below Range</b>  <b>0%- 33 % = 1</b>  <b>34%-66% =2</b>  <b>67%-100%=3</b></p>			
CO1	3				
CO2	3				
CO3	3				
CO4	3				
CO5	3				
 <b>Mr. P .A. Kharade</b> <b>Course Coordinator</b>		 <b>Mrs. S.M. Mulla</b> <b>HoD</b>		 <b>Dr. Vijay R. Ghorpade</b> <b>Principal</b>	






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**ESE Result Analysis: Attainment of COs**

Academic Year:2021-22				Class: B Tech				Semester VII			
Program: CSE				(OEC - CS606): Cyber Security							
Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6			CO	CO1, CO2, CO3, CO4, CO5,CO6			CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks	70	NA	25	Marks	70	NA	25	Marks	70	NA	25
RN				RN				RN			
2018087065	42	NA	20	2018087043	53	NA	23	2018087043	53	NA	23
2018087042	42	NA	21	2019084410	50	NA	20	2019084410	50	NA	20
2018087120	48	NA	20	2018087076	50	NA	24	2018087076	50	NA	24
2018087036	50	NA	20	2019089668	53	NA	21	2019089668	53	NA	21
2018087071	53	NA	20	2018087070	53	NA	24	2018087070	53	NA	24
2019084335	53	NA	21	2019084412	48	NA	21	2019084412	48	NA	21
2018087111	50	NA	20	2018087052	48	NA	22	2018087052	48	NA	22
2019084415	45	NA	21	2019084409	48	NA	21	2019084409	48	NA	21
2018087037	48	NA	21	2018087041	39	NA	20	2018087041	39	NA	20
2018087116	50	NA	19	2019084413	53	NA	23	2019084413	53	NA	23
2018087163	48	NA	23	2018087084	53	NA	24	2018087084	53	NA	24
2018087038	50	NA	20	2018087144	39	NA	21	2018087144	39	NA	21
2018087055	48	NA	20	2018087381	50	NA	20	2018087381	50	NA	20
2018087125	53	NA	20	2018087097	53	NA	22	2018087097	53	NA	22
2018087035	53	NA	21	2018087106	53	NA	22	2018087106	53	NA	22
2018087110	45	NA	20	2018087039	53	NA	21	2018087039	53	NA	21
2018089007	48	NA	20	2019084417	56	NA	21	2019084417	56	NA	21
2018087057	48	NA	21	2018087054	59	NA	24	2018087054	59	NA	24
2018087046	48	NA	21	2019084414	53	NA	22	2019084414	53	NA	22
2019084416	48	NA	20	2018087370	53	NA	21	2018087370	53	NA	21
2018087040	48	NA	20	2018087122	56	NA	20	2018087122	56	NA	20
2019089666	53	NA	20	2019086282	50	NA	20	2019086282	50	NA	20
2018087051	50	NA	20	2018087074	56	NA	21	2018087074	56	NA	21
2019084419	45	NA	20	2018087108	56	NA	21	2018087108	56	NA	21
2018087104	45	NA	20	2018087067	56	NA	20	2018087067	56	NA	20
2018087063	50	NA	21	2018087371	53	NA	20	2018087371	53	NA	20
2018087085	59	NA	22	2019085687	56	NA	20	2019085687	56	NA	20
2018087087	53	NA	24	2018087049	50	NA	20	2018087049	50	NA	20

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
RN				RN			
2019084333	53	NA	20	2017057146	42	NA	20
2018087181	50	NA	20	2017050851	53	NA	20
2018087060	50	NA	20				
2018079226	50	NA	21				
2017050464	53	NA	21				
2017050493	45	NA	21				
2017057305	50	NA	20				
2017050868	50	NA	22				
2017101715	45	NA	16				
2017050571	45	NA	21				
2017050507	42	NA	20				
2017050547	45	NA	23				
1212397233	45	NA	21				
2017050498	42	NA	20				
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	72			NA	72		
Total No. of Students in Class	72			NA	72		
CO Wise Average Percentage Attainment*	100.00			NA	100.00		
Attainment Level**	3			NA	3		
CO	Average Attainment Level**			<p>* Calculate CO wise Percentage Attainment Level Manually</p> <p>** Enter the level of Attainment as per Below Range</p> <p>0%- 33 % = 1</p> <p>34%-66% =2</p> <p>67%-100%=3</p>			
	ESE	OE/POE	TW				
CO1	3	NA	3				
CO2	3	NA	3				
CO3	3	NA	3				
CO4	3	NA	3				
CO5	3	NA	3				
 Mr. P. A. Kharade Course Coordinator		 Mrs. S.M. Mulla HoD		 Dr. Vijay R. Ghorpade Principal			



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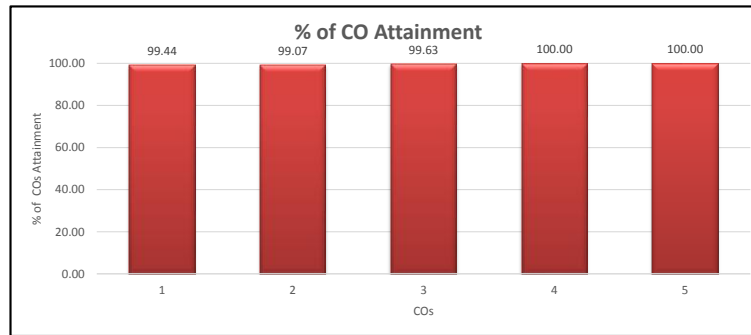
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**Attainment of COs**

Program: CSE		OEC - CS606: Cyber Security			Class:B Tech	Semester VII	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			
	Weightage	0.25	0.5	NA	0.25			
CO1	Explain the cyber security concepts.	3	3	NA	3	3.00	2.92	99.44
CO2	Describe the cyber security vulnerabilities and prevention techniques.	3	3	NA	3	3.00	2.86	99.07
CO3	Explain the different rules and regulations under I.T. ACT.	3	3	NA	3	3.00	2.94	99.63
CO4	Describe challenges and routing protocols in sensor networks	3	3	NA	3	3.00	3.00	100.00
CO5	Explain sensor networks infrastructure management and sensor tasking and control techniques	3	3	#REF!	3	3.00	3.00	100.00

**Overall Attainment=0.8\*Direct+0.2\*Indirect**



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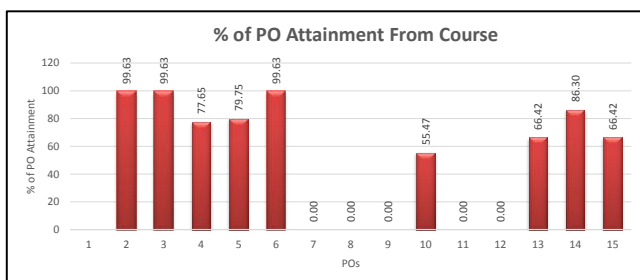
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**Attainment of POs**

Program: CSE	OEC - CS606): Cyber Security	Class: B Tech	Semester VII	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	2	2	3							2	3	2	
CO2	2.97	3	3		2	3							2	3	2	
CO3	2.99	3	3		2	3				2				3	2	
CO4	3.00	3	3	3	3	3				2			2	2	2	
CO5	3.00	3	3	2	3	3				1			2	2	2	

CO-PO Attainment															
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.98	2.98	1.99	1.99	2.98							1.99	2.98	1.99	
CO2	2.97	2.97		1.98	2.97							1.98	2.97	1.98	
CO3	2.99	2.99		1.99	2.99				1.99				2.99	1.99	
CO4	3.00	3.00	3.00	3.00	3.00				2.00			2.00	2.00	2.00	
CO5	3.00	3.00	2.00	3.00	3.00				1.00			2.00	2.00	2.00	
PO Attainment From Course	2.99	2.99	2.33	2.39	2.99		0.00	0.00	1.66			1.99	2.59	1.99	0.00
% of PO Attainment From Course	99.63	99.63	77.65	79.75	99.63	0.00	0.00	0.00	55.47	0.00	0.00	66.42	86.30	66.42	0.00



 <b>Mr. P. A. Kharade</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**COURSE EXIT SURVEY**

Academic Year:2021-22	Class:TY	Semester VI
Program: CSE	OEC - CS606): Cyber Security	

Name of Student: \_\_\_\_\_ Roll No.: \_\_\_\_\_

After the completion of the course OEC - CS606): Cyber Security, do you think the following outcomes are achieved? Then rate the achievement on a point scale of (0 -3, 0: Lowest, 3: Highest)

**Q1. . Explain the cyber security concepts.**

Rate

**Q2.Describe the cyber security vulnerabilities and prevention techniques.**

Rate

**Q3. Explain the different rules and regulations under I.T. ACT.**

Rate

**Q4. Explain the concepts of digital forensics & incident management**

Rate\_\_\_\_\_

CO	CO1	CO2	CO3	CO4	CO5
Rates Given					

Faculty Sign

<b>Academic Year:2021-22</b>	<b>Class: B TECH</b>	<b>Semester VII</b>
<b>Program: CSE</b>	<b>OEC - CS606): Cyber Security</b>	

<b>Roll</b>	<b>PRN</b>	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>
1	2018087065	3	3	3	3	3
2	2018087042	3	3	3	3	3
3	2018087120	3	2	3	3	3
4	2018087036	3	3	3	3	3
5	2018087071	3	3	3	3	3
6	2019084335	2	3	3	3	3
7	2018087111	3	3	2	3	3
8	2019084415	3	3	3	3	3
9	2018087037	3	3	3	3	3
10	2018087116	3	2	3	3	3
11	2018087163	3	3	3	3	3
12	2018087038	2	3	3	3	3
13	2018087055	3	3	3	3	3
14	2018087125	3	3	3	3	3
15	2018087035	3	3	3	3	3
16	2018087110	3	3	3	3	3
17	2018089007	3	3	3	3	3
18	2018087057	3	2	2	3	3
19	2018087046	3	3	3	3	3
20	2019084416	2	3	3	3	3
21	2018087040	3	3	3	3	3
22	2019089666	3	3	3	3	3
23	2018087051	3	3	3	3	3
24	2019084419	3	2	3	3	3
25	2018087104	3	3	3	3	3
26	2018087063	3	3	3	3	3
27	2018087085	3	3	3	3	3
28	2018087087	2	3	3	3	3
29	2018087043	3	3	3	3	3
30	2019084410	3	3	3	3	3
31	2018087076	3	3	3	3	3
32	2019089668	3	3	2	3	3
33	2018087070	3	2	3	3	3
34	2019084412	3	3	3	3	3
35	2018087052	3	3	3	3	3
36	2019084409	3	3	3	3	3
37	2018087041	3	2	3	3	3
38	2019084413	3	3	3	3	3
39	2018087084	2	3	3	3	3
40	2018087144	3	3	3	3	3
41	2018087381	3	3	3	3	3
42	2018087097	3	3	3	3	3
43	2018087106	3	3	3	3	3
44	2018087039	3	2	3	3	3
45	2019084417	3	3	3	3	3
46	2018087054	3	3	3	3	3
47	2019084414	3	3	3	3	3
48	2018087370	3	3	3	3	3
49	2018087122	3	3	3	3	3
50	2019086282	3	3	3	3	3

51	2018087074	3	2	3	3	3
52	2018087108	3	3	3	3	3
53	2018087067	3	3	2	3	3
54	2018087371	2	3	3	3	3
55	2019085687	3	3	3	3	3
56	2018087049	3	3	3	3	3
57	2019084333	3	3	3	3	3
58	2018087181	3	3	3	3	3
59	2018087060	3	3	3	3	3
60	2018079226	3	3	3	3	3
61	2017050464	3	2	3	3	3
62	2017050493	3	3	3	3	3
63	2017057305	3	3	3	3	3
64	2017050868	3	3	3	3	3
65	2017101715	3	3	3	3	3
66	2017050571	3	3	3	3	3
67	2017050507	3	3	3	3	3
68	2017050547	3	3	3	3	3
69	1212397233	3	3	3	3	3
70	2017050498	3	2	3	3	3
71	2017057146	3	3	3	3	3
72	2017050851	3	3	3	3	3
		210	206	212	216	216
	<b>Indirect CO Attainment</b>	<b>2.92</b>	<b>2.86</b>	<b>2.94</b>	<b>3.00</b>	<b>3.00</b>
	<b>Average Indirect Attainment</b>	<b>2.94</b>				



Faculty Sign



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**ESE Result Analysis: Attainment of COs**

Academic Year:2021-22				Class:Third Year				Semester VI			
Program: Computer Science and Engineering				PCC-CS607: C# Programming							
Exam		OE/POE	TW	Exam		OE/POE	TW	Exam		OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6			CO	CO1, CO2, CO3, CO4, CO5,CO6			CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks			25	Marks			25	Marks			25
PRN				PRN				PRN			
2020074834		41	18	2019076541		38	22	2019076541		38	22
2019076789		46	21	2019076562		38	22	2019076562		38	22
2020074835		42	20	2018087079		40	22	2018087079		40	22
2020074813		41	18	2020074823		36	21	2020074823		36	21
2019087947		40	15	2019076569		43	23	2019076569		43	23
2019076552		36	21	2018087126		40	19	2018087126		40	19
2020074811		46	22	2020075111		39	19	2020075111		39	19
2019076471		38	22	2019076587		28	20	2019076587		28	20
2019076556		44	18	2019076579		38	18	2019076579		38	18
2019076575		46	21	2019087948		28	20	2019087948		28	20
2020074830		39	20	2020074825		43	22	2020074825		43	22
2018087115		43	21	2019076559		40	20	2019076559		40	20
2020074819		36	15	2019076585		45	22	2019076585		45	22
2019076570		40	21	2018087033		42	21	2018087033		42	21
2019081154		41	21	2020074821		38	16	2020074821		38	16
2019076571		40	21	2019081152		38	20	2019081152		38	20
2019076564		43	21	2018087117		42	20	2018087117		42	20
2020074827		38	19	2018087088		38	19	2018087088		38	19
2019076543		44	21	2019076546		38	19	2019076546		38	19
2019076547		40	16	2019076558		40	21	2019076558		40	21
2020074826		42	22	2019076560		39	18	2019076560		39	18
2020074831		40	20	2018087034		39	20	2018087034		39	20
2020074820		28	20	2019076578		22	16	2019076578		22	16
2019076545		39	20	2019076565		40	21	2019076565		40	21
2019076549		42	18	2020074829		36	20	2020074829		36	20
2020074810		38	21	2020074836		40	20	2020074836		40	20
2019076561		40	17	2019076583		40	21	2019076583		40	21
2019076542		36	19	2019076586		38	21	2019076586		38	21




Exam		OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks			25
PRN			
2019076554		39	21
2019076550		41	23
2019076538		40	21
2020074816		40	16
2019076567		40	18
2020074824		44	22
2019076572		40	17
2019076590		38	20
2019076589		21	20
2019076576		44	18
2019076574		36	19
2019076566		41	17
2018087059		36	19
2019081149		23	18
2020074815		38	18

Exam		OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks			25
PRN			
2019076543		42	18
2020074833		36	16
2019076557		39	21
2019076553		39	17
2019074312		42	20
2019081151		36	20
2017050539		28	20
2017050865		36	15
2017053265		36	20
2017050835		30	20
2017050857		30	22
2017050510		36	20
2019076577		26	18

Exam		OE/POE	TW
CO	CO1, CO2, CO3, CO4, CO5,CO6		
Marks		50	25
Threshold %		40	40
Threshold Marks		20	10
No. of Students Above Threshold Marks		84	84
Total No. of Students in Class		84	84
CO Wise Average Percentage Attainment*		100.00	100.00
Attainment Level**			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
CO5	NA	3	3
CO6	NA	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

 <b>Mr. Sagar B. Patil</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**Dr. Patangrao Kadam**  
M.A., LL. B., Ph. D.

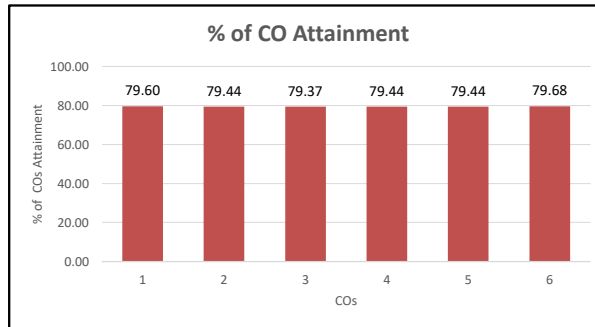
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**PRINCIPAL**  
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M.E., Ph. D. (Computer)

**Attainment of COs**

Program: Computer Science and Engineering		PCC-CS607: C# Programming		Class:Third Year		Semester VI		Academic Year: 2021-22	
Sr. No.	CO Statement	Direct Assessment				Indirect Assessment (Course End Survey)	Overall Attainment on Scale of 3	Overall Percentage Attainment	
		CIE	ESE	OE/POE	TW				
Weigtage				0.5	0.5				
CO1	Students will be able to develop correct, well-documented programs using the C# programming language.			3	3	2.25	2.94	2.39	79.60
CO2	Students will be able to learn to develop object-oriented programs			3	3	2.25	2.92	2.38	79.44
CO3	Students will be able to learn to use Windows Forms and WPF to create GUI-based programs			3	3	2.25	2.90	2.38	79.37
CO4	Students will be able to build networking and multithreading based programs using C#			3	3	2.25	2.92	2.38	79.44
CO5	Students will be able to design web applications using ASP.NET using ASP.NET controls in web applications.			3	3	2.25	2.92	2.38	79.44
CO6	Students will be able to debug and deploy ASP.NET web applications and create database driven ASP.NET web applications.			3	3	2.25	2.95	2.39	79.68

**Overall Attainment=0.8\*Direct+0.2\*Indirect**



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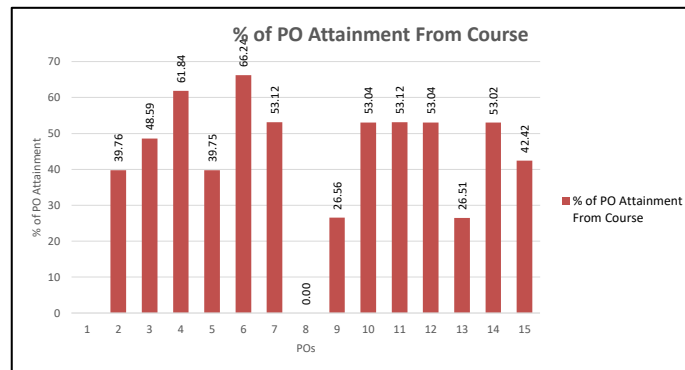
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**Attainment of POs**

Program: Computer Science and Engineering	PCC-CS607: C# Programming	Class:Third Year	Semester VI	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	2.39	2	2		1								1	3	2	
CO2	2.38	1	3	3	1	3							1	2	1	
CO3	2.38	1	1		1									1	1	
CO4	2.38	1	1		2	2									2	
CO5	2.38	2	2	2	2	3				2		2	1	2		
CO6	2.39	2	2	2	2	2	2		1	2	2	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	1.59	1.59		0.80								0.80	2.39	1.59		
CO2	0.79	2.38	2.38	0.79	2.38							0.79	1.59	0.79		
CO3	0.79	0.79		0.79									0.79	0.79		
CO4	0.79	0.79		1.59	1.59									1.59		
CO5	1.59	1.59	1.59	1.59	2.38				1.59		1.59	0.79	1.59			
CO6	1.59	1.59	1.59	1.59	1.59	1.59		0.80	1.59	1.59	1.59	0.80	1.59	1.59		
PO Attainment From Course	1.19	1.46	1.86	1.19	1.99	1.59	0.00	0.80	1.59	1.59	1.59	0.80	1.59	1.27	0.00	
% of PO Attainment From Course	39.76	48.59	61.84	39.75	66.24	53.12	0.00	26.56	53.04	53.12	53.04	26.51	53.02	42.42	0.00	



 <b>Mr. Sagar B. Patil</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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PRINCIPAL Dr. Vijay Ghorpade  
M.E., Ph. D. (Computer)

**COURSE EXIT SURVEY**

Academic Year:2021-22	Class:Third Year	Semester VI
Program: CSE	PCC-CS607: C# Programming	

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 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	CO5	CO6
Rate Given						

Faculty Sign

Academic Year:2021-22	Class:Third Year	Semester VI
Program: CSE	PCC-CS607: C# Programming	

Roll No	PRN	CO1	CO2	CO3	CO4	CO3	CO4
1	2020074834	2	3	2	3	2	3
2	2019076789	3	3	3	3	3	3
3	2020074835	3	3	3	3	3	3
4	2020074813	3	2	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	2	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	3	2
12	2018087115	3	3	2	3	2	3
13	2020074819	3	2	3	3	3	3
14	2019076570	3	2	2	2	2	2
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	2	3
24	2019076545	2	2	3	3	3	3
25	2019076549	3	3	3	3	3	3
26	2020074810	3	3	3	3	3	3
27	2019076561	3	3	3	3	3	3
28	2019076542	3	3	3	3	3	3
29	2019076541	3	3	3	2	3	3
30	2019076562	3	2	2	3	2	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	3	2
36	2019076587	3	3	2	3	2	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	2	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	3	3	3
50	2018087034	3	3	3	3	3	3
51	2019076578	3	3	3	3	3	3
52	2019076565	3	3	3	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	2019076554	3	3	2	2	3	3
58	2019076550	3	3	3	3	3	3
59	2019076538	3	3	3	3	3	3
60	2020074816	3	3	3	3	3	3
61	2019076567	3	3	3	3	3	3
62	2020074824	3	3	3	3	3	3
63	2019076572	3	3	3	3	3	3
64	2019076590	3	3	3	3	3	3
65	2019076589	3	3	3	3	3	3
66	2019076576	3	3	3	3	3	3
67	2019076574	3	3	3	3	3	3
68	2019076566	3	3	3	3	3	3
69	2018087059	3	3	3	3	3	3
70	2019081149	3	3	3	3	3	3
71	2020074815	3	3	3	2	3	2
72	2019076543	3	3	3	3	3	3
73	2020074833	3	3	3	3	3	3
74	2019076557	3	3	3	3	3	3
75	2019076553	3	3	3	3	3	3
76	2019074312	3	3	3	3	3	3
77	2019081151	3	3	3	3	3	3
78	2017050539	3	3	3	3	3	3
79	2017050865	3	3	3	3	3	3
80	2017053265	3	3	3	3	3	3
81	2017050835	3	3	3	3	3	3
82	2017050857	3	3	3	3	3	3
83	2017050510	3	3	3	3	3	3
84	2019076577	3	3	3	3	3	3
		247	245	244	245	245	248
		<b>2.94</b>	<b>2.92</b>	<b>2.90</b>	<b>2.92</b>	<b>2.92</b>	<b>2.95</b>
<b>Average Indirect Attainment</b>		<b>2.92</b>					

 <b>Mr. Sagar B. Patil</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**CIE Result Analysis: Attainment of COs**




<b>Academic Year:2021-22</b>			<b>Class:Third Year</b>			<b>Semester V</b>		
<b>Program: Computer Science and Engineering</b>			<b>PCC-CS504: Computer Algorithms</b>					

Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4	CO	CO1, CO2	CO3, CO4
Marks	30	30	Marks	30	30
Roll Number			Roll Number		
1	17	26	29	11	24
2	11	26	30	16	26
3	14	26	31	15	24
4	14	26	32	16	26
5	15	24	33	19	24
6	12	24	34	17	20
7	16	24	35	15	26
8	16	26	36	16	26
9	17	24	37	18	22
10	13	24	38	20	24
11	20	24	39	18	28
12	20	26	40	21	26
13	16	26	41	20	24
14	17	26	42	19	24
15	0	0	43	18	24
16	19	26	44	14	26
17	19	24	45	15	24
18	12	26	46	17	24
19	13	26	47	13	24
20	18	26	48	17	26
21	20	26	49	16	24
22	19	24	50	18	26
23	16	26	51	15	24
24	13	26	52	15	24
25	18	26	53	15	24
26	18	24	54	15	24
27	16	26	55	13	22
28	14	24	56	13	26
Exam	CIE: Mid Term Test	CIE: End Term Test	Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4	CO	CO1, CO2	CO3, CO4
Marks	30	30	Marks	30	30

Roll Number		
57	9	20
58	12	24
59	10	24
60	16	24
61	10	24
62	12	22
63	8	22
64	18	24
65	14	28
66	15	22
67	14	26
68	11	26
69	12	24
70	10	26
71	5	28

Roll Number		
72	6	26
73	22	28
74	13	28
75	7	26
76	8	26
77	11	26
78	10	28
79	8	28
80	19	28
81	12	26
82	12	16
83	11	28
84	11	28
85	13	26

Exam	CIE: Mid Term Test	CIE: End Term Test
CO	CO1, CO2	CO3, CO4
Marks	30	30
Threshold %	40	
Threshold Marks	12	12
No. of Students Above Threshold Marks	67	84
Total No. of Students in Class	84	
CO Wise Average Percentage Attainment*	79.76	100
Attainment Level**	3	3
CO	Average Attainment Level**	<p><b>*Calculate CO wise Percentage Attainment Level Manually</b></p> <p><b>**Enter the level of Attainment as per Below Range</b></p> <p>0%- 33 % = 1</p> <p>34%-66% =2</p> <p>67%-100%=3</p>
CO1	3	
CO2	3	
CO3	3	
CO4	3	

 <b>Mr. Sagar B. Patil</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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PRINCIPAL

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**ESE Result Analysis: Attainment of COs**

<b>Academic Year:2021-22</b>	<b>Class:Third Year</b>	<b>Semester V</b>
<b>Program: Computer Science and Engineering</b>	<b>PCC-CS504: Computer Algorithms</b>	

Exam	ESE	TW
<b>CO</b>	CO1, CO2, CO3, CO4	
<b>Marks</b>	70	25
<b>PRN</b>		
2020074834	70	19
2019076789	70	24
2020074835	70	24
2020074813	70	18
2019087947	64	17
2019076552	64	19
2020074811	64	24
2019076471	64	23
2019076556	70	24
2019076575	64	22
2020074830	70	20
2018087115	59	16
2020074819	62	20
2019076570	70	18
2019081154	59	22
2019076571	67	24
2019076564	64	19
2020074827	67	23
2019076543	64	18
2019076547	64	23
2020074826	70	24
2020074831	70	20
2020074820	67	19
2019076545	67	22
2019076549	67	20
2020074810	67	19
2019076561	67	21
2019076542	67	23


Exam	ESE	TW
<b>CO</b>	CO1, CO2, CO3, CO4	
<b>Marks</b>	70	25
<b>PRN</b>		
2019076541	64	22
2019076562	64	22
2018087079	59	22
2020074823	64	24
2019076569	59	22
2018087126	62	21
2020075111	70	21
2019076587	59	22
2019076579	67	22
2019087948	67	23
2020074825	62	19
2019076559	56	23
2019076585	70	23
2018087033	67	16
2020074821	70	19
2019081152	67	19
2018087117	62	21
2018087088	62	20
2019076546	67	23
2019076558	62	18
2019076560	67	22
2018087034	59	15
2019076578	64	22
2019076565	67	21
2020074829	70	24
2020074836	64	24
2019076583	67	23
2019076586	62	21


Exam	ESE		TW
CO	CO1, CO2, CO3, CO4		
Marks	70		25
PRN			
2019076554	67		24
2019076550	64		22
2019076538	64		18
2020074816	70		19
2019076567	70		24
2020074824	70		23
2019076572	67		24
2019076590	64		23
2019076589	64		21
2019076576	64		18
2019076574	64		19
2019076566	67		17
2018087059	62		15
2019081149	67		22
2020074815	67		21

Exam	ESE		TW
CO	CO1, CO2, CO3, CO4		
Marks	70		25
PRN			
2019076543	64		18
2020074833	70		24
2019076557	64		17
2019076553	67		24
2019074312	59		22
2019081151	64		22
2017050539	64		17
2017050865	62		21
2017053265	62		23
2017050835	62		22
2017050857	67		18
2017050510	59		23
2019076577	64		21

Exam	ESE		TW
CO	CO1, CO2, CO3, CO4		
Marks	70		25
Threshold %	40		40
Threshold Marks	28		10
No. of Students Above Threshold Marks	84		84
Total No. of Students in Class	84		84
CO Wise Average Percentage Attainment*	100.00		100.00

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	3	
CO2	3	NA	3	
CO3	3	NA	3	
CO4	3	NA	3	

  
Mr. Sagar B. Patil  
Course Coordinator

  
Mrs. S.M. Mulla  
HoD

  
Dr. Vijay R. Ghorpade  
Principal



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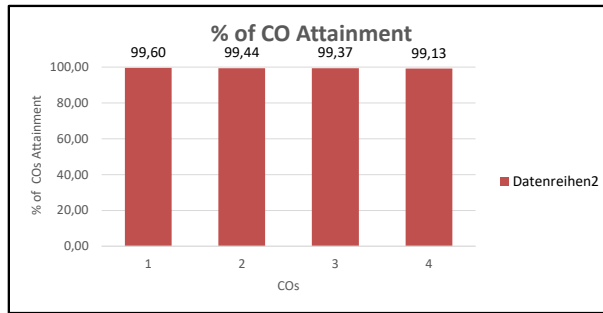
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**Attainment of COs**

Program: Computer Science and Engineering		PCC-CS504: Computer Algorithms		Class:Third Year		Semester V		Academic Year: 2021-22	
Sr. No.	CO Statement	Direct Assessment				Indirect Assessment (Course End Survey)	Overall Attainment on Scale of 3	Overall Percentage Attainment	
		CIE	ESE	OE/POE	TW				
Weigtage		0.25	0.5	NA	0.25	Attainment Level Weighted Average			
CO1	Understand and demonstrate algorithm design methods with analysis.	3	3	NA	3	3.00	2.94	99.60	
CO2	Devise algorithm for given problem statement and analyze its space and time complexity by using recurrence relation.	3	3	NA	3	3.00	2.92	99.44	
CO3	Categorize the problem to determine polynomial and non-polynomial based on its nature	3	3	NA	3	3.00	2.90	99.37	
CO4	Understand and demonstrate basic concepts of parallel algorithms.	3	3	NA	3	3.00	2.87	99.13	

Overall Attainment=0.8\*Direct+0.2\*Indirect



 <b>Mr. Sagar B. Patil</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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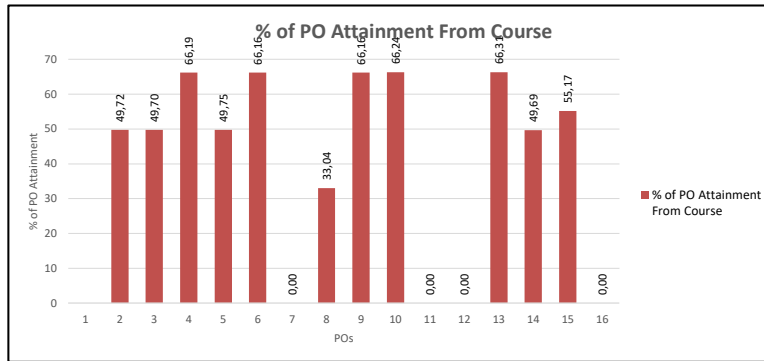
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**Attainment of POs**

Program: Computer Science and Engineering	PCC-CS504: Computer Algorithms	Class:Third Year	Semester V	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	1		1								2	2		
CO2	2.98	2	3	2	2								2	1	2	
CO3	2.98	1	1			2			2	2		3	2	1	1	
CO4	2.97	1	1	2		2		1	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	1.00		1.00								1.99	1.99			
CO2	1.99	2.98	1.99	1.99								1.99	0.99	1.99		
CO3	0.99	0.99			1.99			1.99	1.99		2.98	1.99	0.99	0.99		
CO4	0.99	0.99	1.98		1.98		0.99	1.98					1.98	1.98		
PO Attainment From Course	1.49	1.49	1.99	1.49	1.98	0.00	0.99	1.98	1.99	0.00	0.00	1.99	1.49	1.66	0.00	
% of PO Attainment From Course	49.72	49.70	66.19	49.75	66.16	0.00	33.04	66.16	66.24	0.00	0.00	66.31	49.69	55.17	0.00	



 <b>Mr. Sagar B. Patil</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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**COURSE EXIT SURVEY**

Academic Year:2021-22	Class: Third Year	Semester V
Program: CSE	PCC-CS504: Computer Algorithms	

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 Q1. Describe the main concepts, key technologies, strengths, and limitations of cloudcomputing 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-CS504: Computer Algorithms	

Roll No	PRN	CO1	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
		<b>2.94</b>	<b>2.92</b>	<b>2.90</b>	<b>2.87</b>
<b>Average Indirect Attainment</b>		<b>2.91</b>			

 <b>Mr. Sagar B. Patil</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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M.E., Ph. D. (Computer)




**ESE Result Analysis: Attainment of COs**

<b>Academic Year:2021-22</b>		<b>Class: TY</b>		<b>Semester V</b>	
<b>Program: CSE</b>		<b>HM- CS508 Business English</b>			

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			
2020074834		21	18	2019076541		22	18
2019076789		22	23	2019076562		22	24
2020074835		21	18	2018087079		21	22
2020074813		20	18	2020074823		22	22
2019087947		21	18	2019076569		22	20
2019076552		22	23	2018087126		21	23
2020074811		21	22	2020075111		23	23
2019076471		20	22	2019076587		22	20
2019076556		23	23	2019076579		22	21
2019076575		22	23	2019087948		22	23
2020074830		21	24	2020074825		21	22
2018087115		22	18	2019076559		22	23
2020074819		21	22	2019076585		22	23
2019076570		22	20	2018087033		23	18
2019081154		21	19	2020074821		23	23
2019076571		22	24	2019081152		22	23
2019076564		20	22	2018087117		22	24
2020074827		21	21	2018087088		22	22
2019076543		23	18	2019076546		22	24
2019076547		23	24	2019076558		22	22
2020074826		23	24	2019076560		23	19
2020074831		23	22	2018087034		21	18
2020074820		20	18	2019076578		22	23
2019076545		21	24	2019076565		22	22
2019076549		19	18	2020074829		22	24
2020074810		22	18	2020074836		23	23
2019076561		22	19	2019076583		22	23
2019076542		22	23	2019076586		22	22

Exam	ESE	OE/POE	TW	Exam	ESE	OE/POE	TW
<b>CO</b>	CO1, CO2, CO3, CO4, CO5,CO6			<b>CO</b>	CO1, CO2, CO3, CO4, CO5,CO6		
<b>Marks</b>	70	50	25	<b>Marks</b>	70	50	25
<b>RN</b>				<b>RN</b>			
2019076554		22	23	2020074815		22	20
2019076550		22	19	2019076543		23	18
2019076538		23	22	2020074833		22	24
2020074816		20	18	2019076557		22	22
2019076567		22	23	2019076553		22	24
2020074824		21	18	2019074312		22	18
2019076572		22	23	2019081151		22	20
2019076590		21	21	2017050539		22	18
2019076589		22	22	2017050865		21	21
2019076576		21	18	2017053265		22	23
2019076574		23	23	2017050835		22	21
2019076566		21	22	2017050857		22	18
2018087059		21	18	2017050510		21	18
2019081149		22	18	2019076577		22	23
<b>Exam</b>	<b>ESE</b>			<b>OE/POE</b>			<b>TW</b>
<b>CO</b>	<b>CO1, CO2, CO3,CO4,CO5</b>						
<b>Marks</b>	NA			25			25
<b>Threshold %</b>	NA			40			40
<b>Threshold Marks</b>	NA			10			10
<b>No. of Students Above Threshold Marks</b>	NA			86			86
<b>Total No. of Students in Class</b>	NA			86			86
<b>CO Wise Average Percentage Attainment*</b>	NA			100			100.00
<b>Attainment Level**</b>	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	

 <b>Ms.A. M. Yadav</b> Course Coordinator	 <b>Mrs. S.M. Mulla</b> HoD	 <b>Dr. Vijay R. Ghorpade</b> Principal
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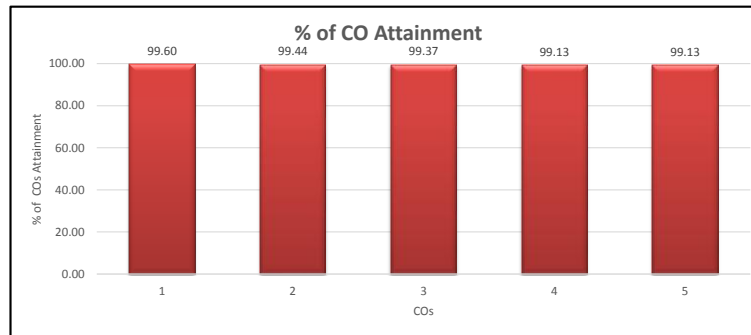
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**Attainment of COs**

Program: CSE		HM- CS508 Business English			Class:TY		Semester V	Academic Year: 2021-22	
SN	CO Statement  Weightage	Direct Assessment				Indirect Assessment  (Course End Survey)	Overall Attainment on Scale of 3	Overall Percentage Attainment	
		CIE	ESE	OE/POE	TW				Attainment Level Weighted Average
CO1	Develop basic skills to deal with people in business situations			3	3	3.00	2.94	2.99	99.60
CO2	Increase their knowledge of key business concepts worldwide			3	3	3.00	2.92	2.98	99.44
CO3	Write and read basic business reports, letters, e-mails etc			3	3	3.00	2.90	2.98	99.37
CO4	Expand vocabulary related to general business situations			3	3	3.00	2.87	2.97	99.13
CO5	Develop confidence to deal with people and basic issues in the business world			3	3	3.00	2.87	2.97	99.13

**Overall Attainment=0.8\*Direct+0.2\*Indirect**



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### Attainment of POs

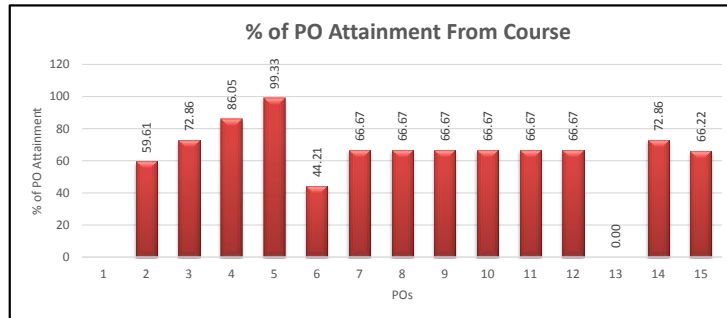
Program: CSE	HM- CS508 Business English-CS306) C Programming	Class: TY	Semester V	Academic Year: 2021-22
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### CO-PO Mapping

CO No.	Overall CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.99	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	2.97	2	2	3	3	0								2	2	
CO5	2.97	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	2.99	2.99	1.00	2.99	1.00								2.99	1.99	
CO2	0.99	1.99	2.98	2.98	1.99								1.99	1.99	
CO3	0.99	1.99	2.98	2.98	0.99								1.99	1.99	
CO4	1.98	1.98	2.97	2.97		2.00		2.00		2.00			1.98	1.98	
CO5	1.98	1.98	2.97	2.97			2.00		2.00		2.00		1.98	1.98	
PO Attainment From Course	1.79	2.19	2.58	2.98	1.33	2.00	2.00	2.00	2.00	2.00	2.00	0.00	2.19	1.99	0.00
% of PO Attainment From Course	59.61	72.86	86.05	99.33	44.21	66.67	66.67	66.67	66.67	66.67	66.67	0.00	72.86	66.22	0.00



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

**COURSE EXIT SURVEY**

<b>Academic Year:2021-22</b>	<b>Class: Third Year</b>	<b>Semester V</b>
<b>Program: CSE</b>	<b>HM- CS508 Business English</b>	

Name of Student: \_\_\_\_\_ Roll NO: \_\_\_\_\_

After the completion of the course HM- CS508 Business English Do you think following outcomes are achieved. Then rate the achievement on point scale of (0 -3, 0: Lowest 3: Highest)

**CO1 Q1. Develop basic skills to deal with people in business situations**

Rate\_\_\_\_\_

**CO2 Q2. Increase their knowledge of key business concepts worldwide**

Rate\_\_\_\_\_

**CO3 Q3. Write and read basic business reports, letters, e-mails etc**

Rate\_\_\_\_\_

**CO4 Q4. Expand vocabulary related to general business situations**

Rate\_\_\_\_\_

**CO5 Q5. Develop confidence to deal with people and basic issues in the business world**

Rate\_\_\_\_\_

CO	CO1	CO2	CO3	CO4	CO5	
Rate Given						

Faculty Sign

Academic Year:2021-22		Class: Third Year			Semester V	
Program: CSE		HM- CS508 Business English				

Roll No	PRN	C01	CO2	CO3	CO4	CO5
1	2020074834	2	3	2	3	3
2	2019076789	3	3	3	3	3
3	2020074835	3	3	3	3	3
4	2020074813	3	2	3	3	3
5	2019087947	3	3	3	3	3
6	2019076552	3	2	3	3	3
7	2020074811	3	3	3	1	1
8	2019076471	2	3	3	3	3
9	2019076556	3	3	3	3	3
10	2019076575	2	2	3	3	3
11	2020074830	3	3	3	2	2
12	2018087115	3	3	2	3	3
13	2020074819	3	2	3	3	3
14	2019076570	3	2	2	2	2
15	2019081154	3	3	3	3	3
16	2019076571	3	3	3	3	3
17	2019076564	3	3	3	3	3
18	2020074827	3	3	3	3	3
19	2019076543	3	3	3	3	3
20	2019076547	3	3	3	3	3
21	2020074826	3	3	3	3	3
22	2020074831	3	3	3	3	3
23	2020074820	3	3	2	3	3
24	2019076545	2	2	3	3	3
25	2019076549	3	3	3	3	3
26	2020074810	3	3	3	3	3
27	2019076561	3	3	3	3	3
28	2019076542	3	3	3	3	3
29	2019076541	3	3	3	2	2
30	2019076562	3	2	2	3	3
31	2018087079	2	3	3	3	3
32	2020074823	3	3	3	3	3
33	2019076569	3	3	3	3	3
34	2018087126	3	3	3	3	3
35	2020075111	3	3	3	2	2
36	2019076587	3	3	2	3	3
37	2019076579	3	3	3	3	3
38	2019087948	3	3	3	3	3
39	2020074825	3	3	3	3	3
40	2019076559	3	3	3	3	3
41	2019076585	3	3	2	3	3
42	2018087033	3	3	3	3	3
43	2020074821	3	3	3	2	2
44	2019081152	3	3	3	3	3



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



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