



PDEA's College of Engineering, Manjari(Bk.), Hadapsar, Pune
 Affiliated to Savitribai Phule Pune University and Approved by AICTE, New Delhi No. 740-89-316 E/ET/98, NAAC Accredited

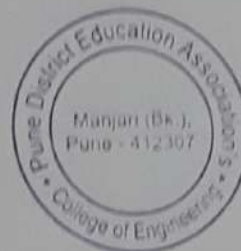


DEPARTMENT OF INFORMATION TECHNOLOGY
CO-PO ARTICULATION MAPPING

CO-PO Mapping Matrix							
Faculty Name:	Prof. Shikha Jain	Year of study:	2023-24	SEM	2	Odd/Even	Odd
Course Name:	Processor Architecture (2019 patt)	Course Code:	214451	Class	S.E		
Course Outcome: At the end of the course students will be able to						PO	PSO
CO 1	Apprehend architecture and memory organization of PIC 18 microcontroller					1,2,3,4,12	1,2
CO 2	Implement embedded C programming for PIC 18					1,2,3,4,5,12	1,2
CO 3	Use concepts of timers and interrupts of PIC 18.					1,2,3,4	1
CO 4	Demonstrate real life applications using PIC 18					1,2,3,4,5,6,12	1,2,3
CO 5	Analyze architectural details of ARM processor					1,2,3,4,12	1,2

Shikha Jain

Prof. Shikha Jain
Subject Teacher



Dr. D.S. Hindlikar

Dr. D.S. Hindlikar
Head of Department
 Department of Information Technology
 P.D.E.A.'s College of Engineering
 Manjari (BK)-412307



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DEPARTMENT OF INFORMATION TECHNOLOGY

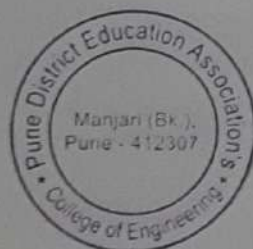
CO-PO ARTICULATION MAPPING JUSTIFICATION

CO-PO Mapping Matrix

Faculty Name: Prof S.Jain		Year of study:	2023-24	SEM	2
Course Name: Processor Architecture		Course Code:	214451	Class	S.E
Course Outcome (CO)	Program Outcome (PO)/Program Specific Outcome (PSO)	Contribution Level (Level 1(Slight), 2(Moderate), 3(Strong)),	Justification		
CO1: Apprehend architecture and memory organization of PIC 18 microcontroller	PO1: Engineering Knowledge	2	The course provides a solid understanding of the architecture and memory organization of PIC 18 microcontrollers, which is foundational to engineering knowledge in embedded systems and microcontroller programming.		
	PO2: Problem Analysis	2	Students learn to analyze problems related to microcontroller architecture and memory management, enabling them to identify and address issues effectively.		
	PO3: Design/Development of Solutions	2	Understanding architecture and memory organization allows students to design and develop efficient solutions for microcontroller-based applications.		
	PO4: Conduct Investigations of Complex Problems	2	The detailed knowledge gained enables students to investigate and solve complex problems that arise in the context of microcontroller systems.		
	PO12: Life long Learning	2	Understanding core microcontroller concepts prepares students for continuous learning in the rapidly evolving field of embedded systems		
CO2: Implement embedded C programming for PIC 18	PO1: Engineering Knowledge	2	Implementing embedded C programming enhances students' engineering knowledge by applying theoretical concepts to practical programming scenarios.		
	PO2: Problem Analysis	2	Through programming exercises, students learn to analyze problems, debug code, and optimize performance in microcontroller applications.		
	PO3: Design/Development of Solutions	2	Programming assignments involve designing and developing solutions that meet specified requirements and constraints		
	PO4: Conduct Investigations of Complex Problems	2	Students investigate complex programming challenges and implement solutions using embedded C, thereby enhancing their problem-solving skills.		

	PO5: Modern Tools	3	This CO equips students with the ability to design systems that interact with external devices, crucial for real-world applications.
	PO12: Life long Learning	2	Students design and implement embedded C programs, a core skill for microcontroller-based system development.
CO3: Use concepts of timers and interrupts of PIC 18.	PO1: Engineering Knowledge	2	Understanding timers and interrupts is crucial for engineering knowledge in real-time systems and microcontroller applications.
	PO2: Problem Analysis	2	Students analyze timing requirements and interrupt handling mechanisms to ensure accurate and timely execution of tasks.
	PO3: Design/Development of Solutions	2	Using timers and interrupts effectively enables students to design solutions that respond to external events and meet timing constraints.
	PO4: Conduct Investigations of Complex Problems	2	Basic troubleshooting and debugging skills are introduced during peripheral interfacing. Investigating issues related to timing and interrupts helps students address complex challenges in real-world microcontroller applications.
	PO1: Engineering Knowledge	3	Real-life applications showcase comprehensive engineering knowledge applied to practical scenarios using PIC 18 microcontrollers.
CO4: Demonstrate real life applications using PIC 18	PO2: Problem Analysis	3	Students analyze real-world problems, identify requirements, and propose innovative solutions using PIC 18 microcontrollers.
	PO3: Design/Development of Solutions	3	This CO emphasizes designing practical applications using microcontrollers. Simple project management concepts like task planning and scheduling might be introduced during project development.
	PO4: Conduct Investigations of Complex Problems	3	Students conduct in-depth investigations into complex problems encountered during the development and deployment of PIC 18-based applications.
	PO5: Modern Tools	3	Utilization of modern tools and techniques in developing applications demonstrates proficiency in leveraging technological advancements for practical engineering solutions.
	PO6: Society	2	Students analyze real-world problems to identify suitable microcontroller-based solutions. Applications developed consider societal impact, demonstrating awareness of ethical and social responsibilities in engineering practices.
	PO12: Life long Learning	2	Engagement in developing real-life applications fosters lifelong learning through continuous improvement and adaptation to new technologies and methodologies.
	PO1: Engineering Knowledge	1	While architectural analysis of ARM processors introduces students to processor design principles, the depth of knowledge remains at a basic level.
	PO1: Engineering Knowledge	1	
CO5: Analyze architectural details of ARM processor	PO1: Engineering Knowledge	1	

	PO2: Problem Analysis	1	Basic analysis of ARM architecture provides foundational skills in problem identification and initial problem-solving approaches.
	PO3: Design/Development of Solutions	1	Initial exposure to ARM architecture supports basic understanding but does not extend significantly to design and development at this stage.
	PO4: Conduct Investigations of Complex Problems	1	Limited exposure to ARM architecture restricts the complexity of problems students can investigate and solve.
	PO12: Life long Learning	1	The introductory exposure to ARM architecture initiates a foundational understanding and encourages curiosity towards lifelong learning in advanced processor architectures.



Head of Dept.
Department of Information Technology
P.D.E.A.'s College of Engineering
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S. Jain
Prof. S. Jain

PDEA's College Of Engineering, Marjari(BK), Pune-412307

Name of Department : Information Technology

Assignment Submission Report

Academic Year :2023-2024

Class:SE Subject: PROCESSOR ARCHITECTURE

Roll No.	Name of Student	ASSIGNMENT NO-01						ASSIGNMENT NO-2						ASSIGNMENT NO-3						ASSIGNMENT NO-4						ASSIGNMENT NO-5						ASSIGNMENT NO-6					
		Q1	Q2	Q3	Q4	Q5	TOTAL	Q1	Q2	Q3	Q4	Q5	TOTAL	Q1	Q2	Q3	Q4	Q5	TOTAL	Q1	Q2	Q3	Q4	Q5	TOTAL	Q1	Q2	Q3	Q4	Q5	TOTAL	Q1	Q2	Q3	Q4	Q5	TOTAL
1	ADHAV PRASANNA DATTU	8	8	8	8	8	40	7	7	7	7	7	36	7	8	9	8	8	40	6	7	6	7	6	32	7	7	7	7	7	36	7	6	6	7	6	32
2	AKASH SHINDE	10	9	10	10	9	48	7	9	10	7	10	43	9	9	9	9	10	46	9	10	9	10	9	47	10	9	9	10	9	47	10	10	9	9	9	47
3	ANAND TEJASWI PRASANNA	8	8	8	8	8	40	8	8	8	8	8	40	8	8	8	8	8	40	7	7	7	6	6	33	7	7	8	8	7	37	6	6	6	7	6	33
4	ASHISH DATTATRAYA VIDHATE	9	9	9	9	9	45	9	10	8	9	9	45	8	9	8	8	9	42	9	8	8	8	9	42	9	8	8	10	8	43	9	9	8	8	8	42
5	BADAVE MADHURA VIJAYKUMAR	9	8	8	9	8	42	8	9	9	9	9	44	9	9	8	7	9	42	8	10	9	9	9	47	10	9	9	10	9	47	9	10	9	9	10	47
7	BARVEKAR OM JALINDAR	9	7	8	8	8	40	8	8	7	8	8	39	9	9	8	8	9	43	9	9	9	9	9	45	9	9	8	9	9	44	9	9	9	9	9	45
8	BHAKARE SAYALI MUKUND	10	9	9	9	9	46	9	10	10	9	9	47	9	9	9	8	9	44	9	9	9	9	9	45	9	8	9	9	9	42	8	9	9	9	9	44
9	BHAMBURE AVDHUT NAVANATH	9	9	8	8	9	43	9	9	9	9	9	46	8	8	8	9	8	41	8	8	8	9	8	41	8	8	7	7	7	37	8	8	8	8	9	41
10	BODKHE SAMIKSHA PRAVIN	9	8	8	9	8	42	8	9	8	9	9	43	8	8	8	9	9	43	8	9	9	9	9	44	9	9	9	9	9	45	9	8	9	9	9	44
11	CHAME RUSHIKESH GOPAL	9	9	8	8	9	43	8	9	9	9	9	44	9	8	8	8	8	41	8	9	9	8	8	39	9	8	9	8	9	43	8	8	8	8	7	39
12	CHAUDHARI DARSHANA NARENDRA	9	9	8	8	9	43	9	8	9	9	9	44	8	8	8	10	9	43	8	9	9	8	8	42	8	8	9	7	7	40	8	9	9	8	9	43
13	CHAVAN ANKITA AVINASH	10	9	10	9	10	47	9	9	9	9	9	45	8	8	9	7	9	42	8	9	9	9	9	44	9	8	10	9	9	45	10	10	10	9	9	48
14	CHAVAN SHRUTI SANTOSH	10	9	10	9	10	47	9	9	10	10	10	48	9	9	9	9	9	45	9	9	9	9	8	44	9	9	9	8	8	43	8	9	9	9	9	44
15	DESHPANDE LAXMI ARAVIND	9	8	8	9	8	42	8	8	8	8	8	40	8	8	8	7	7	38	7	7	8	8	8	40	8	8	8	7	8	39	8	8	8	7	7	38
16	DEVKAR VAIBHAV MADHUKAR	7	7	8	8	8	38	7	7	7	7	7	35	8	7	8	8	8	39	7	8	8	8	8	38	7	8	8	8	8	39	8	8	8	7	7	38
17	DHANAPUNE GAGAN BHARAT	9	9	9	10	9	46	10	10	10	8	10	48	9	9	9	9	9	45	10	10	9	9	9	47	10	9	9	10	9	47	10	10	10	9	9	47
18	DHIWAR ARNAV BABAN	7	7	7	7	7	35	8	8	7	7	7	37	7	7	7	8	7	36	7	8	7	8	7	36	7	7	8	7	7	34	7	8	7	6	8	36
19	GAIKWAD RUSHIKESH RAMDAS	9	9	9	9	10	46	9	10	9	9	10	47	8	9	9	9	9	44	9	10	10	9	10	48	10	9	9	10	9	47	10	10	8	9	10	47
20	GARJE YASHRAJ KANIFNATH	8	8	8	8	7	39	8	8	8	7	7	38	7	7	7	7	7	35	8	8	7	7	7	38	8	8	8	8	8	40	8	8	7	7	8	38
21	HUBALE SUMED BHARAT	9	9	9	9	9	45	8	8	8	8	8	40	7	7	7	7	8	36	8	8	8	7	8	38	8	8	9	9	8	42	8	8	8	7	8	38
22	JADHAV GITANJALI SUDAM	10	9	10	9	10	47	8	8	8	9	8	41	8	9	9	8	8	42	9	9	9	9	10	46	9	9	9	9	9	45	9	9	9	10	46	
23	JADHAV RONIT RAMDAS	7	7	7	7	7	35	8	8	8	7	7	38	8	8	8	8	8	40	7	7	8	8	8	38	8	8	8	8	8	40	7	7	8	8	8	38
24	JAGTAP OMKAR SU BHASHI	na						36						43						na						na						na					
25	JOHARE YUVRAJ MANOHAR	8	8	8	8	8	40	8	8	8	8	8	40	9	9	9	9	9	45	8	8	8	8	8	40	7	7	7	7	7	35	8	8	8	8	8	40
26	KADAM ADITYA ANIL	8	8	8	8	8	40	8	8	8	8	8	40	7	8	7	7	8	37	8	8	7	7	7	37	8	8	8	8	8	40	7	6	6	7	7	37
27	KAMBLE HARSHAD PRAFFUL	8	8	8	9	9	42	7	7	7	7	7	35	7	7	7	7	7	35	7	7	7	7	7	35	8	8	8	8	8	40	7	7	7	7	7	35
28	KAMBLE MANASI SACHIN	9	9	9	9	9	45	8	8	8	8	8	40	9	9	9	9	9	45	9	8	8	9	8	42	9	9	8	9	9	44	9	9	8	8	8	42
29	KAMBLE VIHAVARI ROHIT	9	9	10	9	9	46	9	8	10	8	10	40	9	8	8	8	9	42	8	8	8	8	8	40	9	8	8	8	8	40	9	9	8	8	9	43
30	KAREGAONKAR SAGAR SANJAY	9	10	9	9	9	46	8	8	8	8	8	40	8	8	8	8	10	42	9	9	9	9	8	44	9	9	8	10	8	44	6	10	9	9	9	43
31	KHANDGE PRATIK GANESH	8	8	7	7	7	38	7	7	7	8	8	38	7	8	8	7	7	37	7	7	8	7	7	36	6	6	6	7	7	33	8	7	7	7	7	36
32	KHEMNAR VISHAL AMBADAS	9	9	7	9	9	42	8	7	8	9	8	40	8	8	7	8	8	40	7	8	8	8	8	41	9	8	8	8	9	42	8	9	9	9	8	43
33	KOKANE TANISHQ DEEPAK	9	9	9	9	9	45	9	9	8	8	8	42	8	8	7	7	8	38	7	7	8	8	8	38	7	7	7	7	7	35	8	8	7	7	8	38
34	Kulkarni Sarthak	10	9	9	9	9	46	8	8	7	8	8	39	8	8	7	7	8	38	8	8	8	8	8	40	8	9	9	9	9	44	8	8	8	8	8	40
35	KUMKAR MANASI NARENDRA	8	8	8	8	8	40	9	9	8	8	8	42	9	9	9	9	9	45	8	8	8	8	8	40	8	9	9	9	9	44	8	8	8	8	7	38
36	LAMBOLE MAYUR VIJAY	8	8	8	7	7	38	8	8	7	7	7	37	8	8	7	7	8	39	8	8	8	7	7	38	8	8	8	8	8	40	8	8	7	8	7	38
37	LANDGE YOGESH MARUTI	8	8	8	8	8	40	7	7	7	7	7	35	8	7	8	9	8	43	8	9	8	7	9	42	8	9	9	9	8	43	7	8	9	8	8	43
38	MRUNALI ANANDA PATIL	9	9	8	8	8	42	9	9	8																											

62	SURAJ RAJENDRA SONAWANE	8	8	7	7	8	38	8	8	8	7	7	28	7	7	7	7	35	8	8	7	7	7	38	8	8	7	7	7	38	8	7	7	7	18
63	VIKRAJ VISHNU DE MUNDE	8	10	8	8	8	88	8	8	10	7	10	45	8	8	8	8	8	8	8	7	8	7	38	8	8	8	7	8	8	7	8	8	10	
64	NIYENAB SAKSHI SANTOSH	8	8	8	10	8	88	8	7	7	7	7	35	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	40	
65	WACHINABE KOMAL PRAVIN	8	10	8	8	8	88	10	10	8	8	8	40	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	40	
66	WACHINABE SNEHA ANIL	8	8	10	7	10	85	8	8	8	8	8	45	8	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	40	
67	ZADHUNI SAMRUDHI SHARAD	8	8	8	8	8	88	10	10	10	10	8	40	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	40	

S. Jain

Subject Teacher

Prof S. Jain.

[Signature]
HOD IT

Head of Dept.
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PDEA's College Of Engineering, Manjari(Bk'), Pune-412307

Name of Department : Information Technology

QUIZ EVALUATION

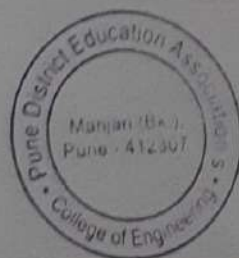
Academic Year :2023-2024

Class:SE Subject: PROCESSOR ARCHITECTURE

Roll No.	Name of Student	Q1	Q2	Q3	Q4	Q5	Q6
1	ADHAV PRASANNA DATTU	8	6	9	7	8	10
2	AKASH SHINDE	8	8	10	7	8	9
3	ANAND TEJASWI PRASANNA	7	8	7	8	8	9
4	ASHISH DATTATRAYA VIDHATE	9	10	9	7	8	9
5	BADAVE MADHURA VIJAYKUMAR	9	10	9	9	10	8
6	BAJARE YASH YOGESH	3	3	7	6	6	6
7	BARVEKAR OM JALINDAR	6	6	6	7	6	9
8	BHAKARE SAYALI MUKUND	8	6	9	7	8	9
9	BHAMBURE AVDHUT NAVANATH	10	9	10	9	8	9
10	BODKHE SAMIKSHA PRAVIN	10	9	9	9	10	8
11	CHAME RUSHIKESH GOPAL	5	9	9	7	9	9
12	CHAUDHARI DARSHANA NARENDRA	6	7	8	10	8	10
13	CHAVAN ANKITA AVINASH	8	9	9	8	8	9
14	CHAVAN SHRUTI SANTOSH	8	8	9	8	8	8
15	DESHPANDE LAXMI ARAVIND	9	10	8	10	10	10
16	DEVKAR VAIBHAV MADHUKAR	6	7	9	10	10	7
17	DHANAPUNE GAGAN BHARAT	9	9	8	10	7	10
18	DHIWAR ARNAV BABAN	6	7	9	10	10	7
19	GAIKWAD RUSHIKESH RAMDAS	8	6	8	10	8	8
20	GARJE YASHRAJ KANIFNATH	6	7	9	10	8	6
21	HUBALE SUMED BHARAT	7	8	8	9	9	8
22	JADHAV GITANJALI SUDAM	10	10	8	9	8	7
23	JADHAV RONIT RAMDAS	6	7	9	10	8	6
24	JAGTAP OMKAR SUBHASH	0	0	0	0	0	0
25	JOHARE YUVRAJ MANOHAR	10	9	9	8	10	10
26	KADAM ADITYA ANIL	10	9	10	10	8	10
27	KAMBLE HARSHAD PRAFFUL	9	7	6	7	8	6
28	KAMBLE MANASI SACHIN	9	8	9	9	9	8
29	KAMBLE VIBHAVARI ROHIT	8	6	8	8	8	9
30	KAREGAONKAR SAGAR SANJAY	9	7	6	5	9	8.18
31	KHANDGE PRATIK GANESH	10	9	6	10	9	8
32	KHEMNAR VISHAL AMBADAS	9	7	9	7	9	9

33	KOKANE TANISHQ DEEPAK	10	9	8	9	10	9
34	Kulkarni Sarthak	9	7	9	7	9	9
35	KUMKAR MANASI NARENDRA	9	7	9	7	9	9
36	LAMBOLE MAYUR VIJAY	7	7	8	7	8	9
37	LANDGE YOGESH MARUTI	8	8	6	10	9	10
38	MRUNALI ANANDA PATIL	6	6	7	7	8	10
39	MULAY HARSHAL AMBADAS	7	7	8	7	8	9
40	MURKUTE VINIT BAPUSAHEB	6	10	7	9	8	9
41	NEHA TUKARAM PAWAR	8	5	10	7	8	10
42	NIGADE VARUN YOGESH	7	5	9	9	7	8
43	NILESH DEVIDAS DESALE	9	9	7	8	8	9
44	PASWAN ROHIT BALAKRAM	8	7	8	7	8	7
45	PATEKAR KAUSTUBH SURESH	9	9	7	8	8	9
46	PATIL NISHA RAJENDRA	6	9	8	8	8	7
47	PAWAR RUTUJA SUDHAKAR	6	9	6	8	10	8
48	PAYAL SACHIN JADHAV	7	5	9	9	7	8
49	PRATHAMESH RAVINDRA PAREKAR	9	9	7	8	8	9
50	PRATIK PRAKASH SHIRODE	9	7	9	8	9	8
51	RATHOD SUDEEP SUBHASH	9	9	9	8	7	9
52	RINDHE OM SAMADHAN	9	9	9	9	6	10
53	SATHE SRUSHTI SANJAY	9	7	7	10	8	9
54	SHELKAR GAYATRI RAJENDRA	10	9	9	10	9	10
55	SHINDE OMKAR SANJAY	8	6	6	7	7	7
56	SHINDE PRAJAKTA SUNIL	7	6	10	7	9	9
57	SHINDE YOGESHWARI MADHAVRAO	8	5	10	7	8	9
58	SHITAL MOTIRAM PAWAR	7	6	5	8	9	6
59	SHUBHAM BHAT	9	7	9	6	8	9
60	SNEHAL SANDESH GITE	7	6	5	8	9	6
61	SUMIT SUNIL CHAUDHARI	7	6	5	8	9	6
62	SURAJ RAJENDRA SONAWANE	8	9	10	10	8	9
63	VIKIRAJ VISHNU DEMUNDE	9	8	7	6	8	10
64	VITEKAR SAKSHI SANTOSH	6	7	6	6		10
65	WAGHMARE KOMAL PRAVIN	9	9	7	8	8	9
66	WAGHMARE SNEHA ANIL	9	9	7	8	8	9
67	ZADBUKE SAMRUDHI SHARAD	9	7	8	10	7	9

Shikha Jain
Subject Teacher
Prof. Shikha Jain



Dr. D. D. D.
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DEPARTMENT OF Information Technology

COMPUTATION OF CO ATTAINMENT of Assignments

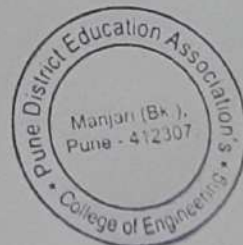


Course Name: Processor Architecture

Course code:214451

CO mapping to Assignments	co1	CO2					CO3			CO4			CO5	
Student Name	Asmt1	ASMT2	Asmt3	ASMT4	Asmt5	Total/50	ASMT2	Asmt3	Total	Asmt 3	Asmt4	Asmt 5	Total	ASMT 6
	50					50				50	50	50		50
1 ADHAV PRASANNA DATTU	42	40	35	40	32	37	35	40	38	40	32	35	36	44
2 AKASH SHINDE	41	48	43	46	47	46	43	46	45	46	47	47	47	42
3 ANAND TEJASWI PRASANNA	43	40	40	40	33	38	40	40	40	40	33	37	37	45
4 ASHISH DATTATRAYA VIDHATE	40	45	45	42	42	44	45	42	44	42	42	43	42	43
5 BADAVE MADHURA VIJAYKUMAR	43	42	44	42	47	44	44	42	43	42	47	47	45	41
6 BAJARE YASH YOGESH	0	na	na	na	na	0	na	na	0	na	na	na	0	0
7 BARVEKAR OM JALINDAR	45	40	39	43	45	42	39	43	41	43	45	44	44	45
8 BHAKARE SAYALI MUKUND	42	46	47	44	45	46	47	44	46	44	45	42	44	41
9 BHAMBURE AVDHUT NAVANATH	40	43	45	41	41	43	45	41	43	41	41	37	40	41
10 BODKHE SAMIKSHA PRAVIN	41	42	43	43	44	43	43	43	43	43	44	45	44	40
11 CHAME RUSHIKESH GOPAL	42	43	44	41	39	42	44	41	43	41	39	43	41	43
12 CHAUDHARI DARSHANA NARENDRA	41	43	44	43	42	43	44	43	44	43	42	40	42	41
13 CHAVAN ANKITA AVINASH	40	47	45	42	44	45	45	42	44	42	44	45	44	41
14 CHAVAN SHRUTI SANTOSH	36	47	48	45	44	46	48	45	47	45	44	43	44	36
15 DESHPANDE LAXMI ARAVIND	42	42	40	38	40	40	40	38	39	38	39	39	39	43
16 DEVKAR VAIBHAV MADHUKAR	40	38	35	39	38	38	35	39	37	39	39	39	39	43
17 DHANAPUNE GAGAN BHARAT	43	46	48	45	47	47	48	45	47	45	46	47	46	45
18 DHIWAR ARNAV BABAN	41	35	37	36	36	36	37	36	37	36	37	34	36	43
19 GAIKWAD RUSHIKESH RAMDAS	41	46	47	44	48	46	47	44	46	44	48	47	46	41
20 GARJE YASHRAJ KANIFNATH	45	39	38	35	38	38	38	35	37	35	36	40	37	45
21 HUBALE SUMED BHARAT	36	45	40	36	38	40	40	36	38	36	38	42	39	36
22 JADHAV GITANJALI SUDAM	42	47	41	42	46	44	41	42	42	42	46	45	44	43
23 JADHAV RONIT RAMDAS	43	35	38	40	38	38	38	40	39	40	40	40	40	44
24 JAGTAP OMKAR SUBHASH	AB	na	38	48	na	43	38	48	43	48	na	na	16	40
25 JOHARE YUVRAJ MANOHAR	41	40	40	45	40	41	40	45	43	45	40	35	40	43
26 KADAM ADITYA ANIL	39	40	40	37	37	39	40	37	39	37	37	40	38	39
27 KAMBLE HARSHAD PRAFFUL	40	42	35	35	35	37	35	35	35	35	35	40	37	45
28 KAMBLE MANASI SACHIN	44	45	40	45	42	43	40	45	43	45	42	44	44	40
29 KAMBLE VIBHAVARI ROHIT	40	46	40	42	40	42	40	42	41	42	40	40	41	44
30 KAREGAONIKAR SAGAR SANJAY	38	46	40	42	44	43	40	42	41	42	44	44	43	40
31 KHANDGE PRATIK GANESH	44	38	38	37	36	37	38	37	38	37	36	33	35	38
32 KHEMNAR VISHAL AMBADAS	37	42	40	40	41	41	40	40	40	40	41	42	41	45
33 KOKANE TANISHQ DEEPAK	39	45	42	38	38	41	42	38	40	38	38	35	37	37
34 Kulkarni Sarthak	39	46	39	38	40	41	39	38	39	38	40	38	39	39
35 KUMKAR MANASI NARENDRA	40	40	42	45	40	42	42	45	44	45	40	44	43	39
36 LAMBOLE MAYUR VIJAY	38	38	37	39	38	38	37	39	38	39	39	40	39	41

37	LANDGE YOGESH MARUTI	38	40	35	40	36	38	35	40	38	40	36	37	38	37
38	MRUNALI ANANDA PATIL	38	42	43	42	43	43	43	42	43	42	43	40	42	38
39	MULAY HARSHAL AMBADAS	41	35	35	39	35	36	35	39	37	39	35	30	35	39
40	MURKUTE VINIT BAPUSAHEB	42	40	35	40	40	39	35	40	38	40	40	40	40	41
41	NEHA TUKARAM PAWAR	37	43	37	42	43	41	37	42	40	42	43	45	43	44
42	NIGADE VARUN YOGESH	42	30	30	30	34	31	30	30	30	30	32	34	32	37
43	NILESH DEVIDAS DESALE	39	30	30	30	32	31	30	30	30	30	35	39	36	39
44	PASWAN ROHIT BALAKRAM	37	38	35	35	36	36	35	35	35	35	41	40	41	41
45	PATEKAR KAUSTUBH SURESH	41	45	40	42	41	42	40	42	41	42	41	40	40	41
46	PATIL NISHA RAJENDRA	40	38	38	38	39	38	38	38	38	38	39	40	39	41
47	PAWAR RUTUJA SUDHAKAR	40	40	40	38	39	39	40	38	39	38	39	40	45	41
48	PAYAL SACHIN JADHAV	41	45	42	47	44	45	42	47	45	47	44	44	45	42
49	PRATHAMESH RAVINDRA PAREKAR	40	47	44	43	42	44	44	43	44	43	42	36	40	40
50	PRATIK PRAKASH SHIRODE	37	42	39	37	38	39	39	37	38	37	38	40	38	37
51	RATHOD SUDEEP SUBHASH	36	45	42	41	43	43	42	41	42	41	43	45	43	38
52	RINDHE OM SAMADHAN	37	44	46	44	45	45	46	44	45	44	45	40	43	37
53	SATHE SRUSHTI SANJAY	38	45	47	46	46	46	47	46	46	46	46	45	46	37
54	SHELKAR GAYATRI RAJENDRA	37	48	46	46	47	47	46	46	46	46	47	44	46	38
55	SHINDE OMKAR SANJAY	37	30	30	37	33	33	30	37	34	37	33	34	35	40
56	SHINDE PRAJAKTA SUNIL	38	48	44	44	45	45	44	44	44	44	45	40	42	39
57	SHINDE YOGESHWARI MADHAVRAO	37	46	45	44	42	44	45	44	45	44	44	42	40	37
58	SHITAL MOTIRAM PAWAR	43	42	41	43	43	42	41	43	42	43	43	40	42	37
59	SHUBHAM BHAT	42	37	40	37	38	38	40	37	39	37	38	39	38	43
60	SNEHAL SANDESH GITE	40	38	40	39	36	38	40	39	40	39	36	40	38	43
61	SUMIT SUNIL CHAUDHARI	41	35	38	35	38	37	38	35	37	35	36	36	36	42
62	SURAJ RAJENDRA SONAWANE	37	38	38	35	36	37	38	35	37	35	36	36	36	40
63	VIKIRAJ VISHNU DEMUNDE	41	44	45	42	39	43	45	42	44	42	39	38	40	40
64	VITEKAR SAKSHI SANTOSH	37	46	36	40	40	41	36	40	38	40	40	38	39	43
65	WAGHMARE KOMAL PRAVIN	37	46	47	45	45	46	47	45	46	45	45	46	45	37
66	WAGHMARE SNEHA ANIL	41	45	45	44	44	45	45	44	45	44	44	43	44	40
67	ZADBUKE SAMRUDHI SHARAD	41	44	49	44	43	45	49	44	47	44	43	43	43	43
Threshold , 60%		30	30	30	30	30	30	30	30	30	30	30	30	30	30
No. of students above threshold		65	65	66	66	65	66	66	66	66	66	66	65	65	66
No. of students scoring >= threshold		97.01	97.015	98.51	98.507	97.015	98.50746	98.50746	98.50746	98.50746	98.50746	97.01493	97.01493	97.01493	98.50746
CO attainment		2.91	2.91	2.96	2.96	2.91	2.96	2.96	2.96	2.96	2.96	2.91	2.91	2.91	2.96



Dee
Head of Dept.
Department of Information Technology
P.D.E.A.'s College of Engineering
Manjari (BK)-412307



Name of Faculty : Prof. Shikha Jain		Name of Course :Processor Architecture		Year of Study		Course Code		Student's CO attainment Summary		SEM/ CLASS		S.Y.		CO-5 Attainment		CO-4 Attainment		CO-3 Attainment		CO-2 Attainment		CO-1 Attainment		Name of Student		Roll No		
Assign ment 1	Mock Insem	Q/UZ	Total	CO1 attain	Assign ment	Mock Insem + Enr	Q/UZ	Total	CO2 attain	Assign ment	Mock Insem + Enr	Q/UZ	Total	CO3 attain	Assign ment	Mock Insem + Enr	Q/UZ	Total	CO4 attain	Assign ment	Mock Insem + Enr	Q/UZ	Total	CO5 attain	Assign ment	Mock Insem + Enr	Q/UZ	Total
50	40	10	100	3	50	40	10	100	3	50	40	10	100	3	50	40	10	100	3	50	40	10	100	3	50	40	10	100
40	13	8	61	1.84	37	20	6	63	1.89	38	17	9	64	1.92	36	19	8	63	1.89	39	19	9	68	2.04	39	19	9	68
48	32	8	88	2.64	47	25	8	80	2.40	45	30	10	85	2.55	47	17	8	72	2.16	47	17	8	72	2.16	47	17	8	72
40	16	7	63	1.89	38	19	8	65	1.95	40	15	7	62	1.86	37	15	8	60	1.80	38	19	9	70	2.10	38	19	9	70
45	29	9	83	2.50	44	23	10	77	2.31	44	17	9	76	2.10	42	19	8	69	2.07	47	24	8	79	2.37	47	24	8	79
42	32	9	83	2.49	45	29	10	84	2.52	43	22	9	74	2.22	45	25	10	80	2.46	47	24	8	79	2.37	47	24	8	79
0	0	3	3	0.09	0	0	3	3	0.09	0	0	0	0	0.00	0	0	0	0	0.00	0	0	0	0	0	0	0	0	0
40	16	6	62	1.86	43	23	0	72	2.16	41	17	6	64	1.92	44	27	6	77	2.31	47	17	8	72	2.16	47	17	8	72
46	16	8	70	2.10	45	30	6	81	2.43	46	33	9	88	2.64	44	37	8	89	2.67	47	17	8	72	2.16	47	17	8	72
43	13	10	66	1.99	42	16	9	67	2.01	43	17	10	70	2.10	40	17	8	65	1.95	47	24	8	79	2.37	47	24	8	79
42	29	10	81	2.44	44	25	9	78	2.34	43	17	9	69	2.07	44	25	10	79	2.37	47	24	8	79	2.37	47	24	8	79
43	21	5	69	2.08	42	28	9	79	2.37	43	25	9	77	2.31	41	20	9	70	2.10	42	22	9	73	2.19	42	22	9	73
43	16	6	65	1.95	43	26	7	76	2.28	44	22	8	74	2.22	42	15	8	65	1.95	47	24	8	79	2.37	47	24	8	79
47	32	8	87	2.61	45	26	9	80	2.40	47	23	8	79	2.37	44	20	8	69	2.07	47	24	8	79	2.37	47	24	8	79
47	16	8	71	2.13	46	21	10	71	2.13	39	23	8	70	2.10	39	20	10	69	2.07	47	24	8	79	2.37	47	24	8	79
42	32	9	83	2.49	40	21	7	66	1.98	37	17	9	63	1.89	36	14	7	67	2.01	47	17	8	72	2.16	47	17	8	72
38	24	6	68	2.04	38	21	9	60	2.40	37	17	8	72	2.16	46	17	10	63	1.89	35	24	7	64	1.98	35	24	7	64
46	27	9	82	2.45	47	24	9	60	1.80	37	16	9	62	1.86	36	17	8	63	1.89	47	19	8	74	2.22	47	19	8	74
35	32	6	73	2.19	36	17	7	69	2.37	46	20	8	74	2.22	46	24	8	78	2.34	47	19	8	74	2.22	47	19	8	74
46	27	8	81	2.42	47	26	6	79	2.42	37	25	9	71	2.13	37	12	8	57	1.71	46	22	8	65	1.95	46	22	8	65
39	27	6	72	2.15	38	19	7	64	1.92	37	23	8	69	2.07	39	14	8	62	1.86	46	19	7	72	2.16	46	19	7	72
45	32	7	84	2.52	41	17	8	66	1.98	38	23	8	70	2.10	44	20	8	65	1.95	46	19	7	72	2.16	46	19	7	72
47	32	10	89	2.67	45	21	10	76	2.28	42	20	8	69	2.07	39	14	8	62	1.86	46	19	7	72	2.16	46	19	7	72
35	16	6	57	1.71	39	26	7	72	2.16	39	19	9	67	2.01	40	17	8	65	1.95	46	19	7	72	2.16	46	19	7	72
23	27	0	27	0.80	18	9	0	27	0.81	43	15	0	58	1.74	16	0	0	16	0.48	na	0	0	0	0	0	0	0	0
na	27	0	27	0.80	18	9	0	27	0.81	43	15	0	58	1.74	16	0	0	16	0.48	na	0	0	0	0	0	0	0	0
40	32	10	82	2.46	40	17	9	66	1.98	43	20	9	72	2.16	40	22	10	72	2.16	47	17	8	72	2.16	47	17	8	72
40	32	10	82	2.46	39	17	9	65	1.95	39	20	10	69	2.07	38	17	8	63	1.89	47	17	8	72	2.16	47	17	8	72
40	32	10	82	2.46	39	17	9	65	1.95	39	20	10	69	2.07	38	17	8	63	1.89	47	17	8	72	2.16	47	17	8	72
42	32	9	83	2.49	38	24	7	69	2.07	35	22	6	63	1.89	37	15	8	60	1.80	38	19	9	70	2.10	38	19	9	70
45	24	9	78	2.34	44	21	8	73	2.19	43	20	9	72	2.16	44	14	8	67	1.91	48	22	8	78	2.34	48	22	8	78
45	32	8	86	2.58	42	25	6	73	2.19	41	26	8	75	2.25	41	7	8	56	1.68	48	22	8	78	2.34	48	22	8	78
46	32	8	86	2.58	42	25	6	73	2.19	41	26	8	75	2.25	41	7	8	56	1.68	48	22	8	78	2.34	48	22	8	78
46	24	9	79	2.37	44	18	7	69	2.07	41	13	6	60	1.80	43	17	9	69	2.07	43	22	8	73	2.19	43	22	8	73
46	24	9	79	2.37	44	18	7	69	2.07	41	13	6	60	1.80	43	17	9	69	2.07	43	22	8	73	2.19	43	22	8	73
38	27	10	75	2.24	37	23	9	69	2.07	38	25	6	69	2.07	35	17	9	61	1.83	34	22	8	64	1.92	34	22	8	64
42	32	9	83	2.49	41	19	7	67	2.01	40	20	9	69	2.07	41	20	9	70	2.10	43	22	8	73	2.19	43	22	8	73
45	32	10	87	2.61	40	20	9	69	2.07	40	22	8	70	2.10	37	15	10	62	1.86	40	24	8	72	2.16	40	24	8	72
46	32	9	87	2.61	41	15	7	63	1.89	39	20	9	68	2.04	39	15	9	63	1.89	41	22	8	72	2.16	41	22	8	72
46	32	9	87	2.61	41	15	7	63	1.89	39	20	9	68	2.04	39	15	9	63	1.89	41	22	8	72	2.16	41	22	8	72
40	16	9	65	1.95	43	16	7	66	1.98	44	23	9	76	2.28	43	17	9	69	2.07	38	22	9	70	2.10	38	22	9	70
38	16	7	61	1.83	39	26	7	72	2.16	38	22	8	68	2.04	39	14	8	61	1.83	34	22	8	64	1.92	34	22	8	64
40	24	8	72	2.16	38	18	8	64	1.92	43	22	7	72	2.16	42	19	8	63	1.89	43	22	8	73	2.19	43	22	8	73
42	16	6	64	1.92	42	26	6	74	2.22	43	22	7	72	2.16	42	19	8	63	1.89	43	22	8	73	2.19	43	22	8	73
35	32	7	74	2.22	35	28	7	70	2.10	37	22	8	67	2.01	35	25	8	62	1.86	38	19	9	70	2.10	38	19	9	70
40	32	6	78	2.34	39	22	10	71	2.13	38	20	7	65	1.95	40	14	8	62	1.86	40	19	8	63	1.89	40	19	8	

43	NILESH DEVIDAS DESALE	30	32	9	71	2.13	37	19	9	60	1.80	30	16	7	53	1.59	32	8	54	1.62	33	19	9	61	1.83				
44	PASWAN ROHIT BALAKRAM	38	16	8	62	1.86	37	25	7	69	2.07	35	20	8	63	1.89	36	8	58	1.74	37	19	7	63	1.89				
45	PATEKAR KAUSTUBH SURESH	45	16	9	70	2.10	42	34	9	85	2.55	41	24	7	72	2.16	41	30	79	2.37	45	19	9	73	2.19				
46	PATIL NISHA RAJENDRA	38	27	6	71	2.12	40	22	9	71	2.13	38	21	8	67	2.01	40	15	63	1.89	43	19	7	69	2.07				
47	PAWAR RUTUJA SUHAKAR	40	32	6	78	2.34	40	19	9	68	2.04	39	16	6	61	1.83	39	19	10	68	2.04	38	24	8	70	2.10			
48	PAYAL SACHIN JADHAV	45	32	7	84	2.52	45	28	5	78	2.34	45	25	9	79	2.37	45	22	7	74	2.22	48	17	8	73	2.19			
49	PRATHAMESH RAVINDRA PAREKAR	47	32	9	88	2.64	43	17	9	69	2.07	44	20	7	71	2.13	40	15	8	63	1.89	38	19	9	66	1.98			
50	PRATIK PRAKASH SHIRODE	42	29	9	80	2.41	40	27	7	74	2.22	38	17	9	64	1.92	38	30	9	77	2.31	41	22	8	71	2.13			
51	RATHOD SUDEEP SUBHASH	45	32	9	86	2.58	44	19	9	72	2.16	42	22	9	73	2.19	43	30	7	80	2.40	48	17	9	74	2.22			
52	RINDHE OM SAMADHAN	44	21	9	74	2.23	44	21	9	74	2.22	45	20	9	74	2.22	43	14	6	63	1.89	38	15	10	63	1.89			
53	SATHE SRUSHTI SANJAY	45	16	9	70	2.10	46	18	7	71	2.13	47	20	7	74	2.22	46	25	8	79	2.37	44	19	9	72	2.16			
54	SHELKAR GAYATRI RAJENDRA	48	16	10	74	2.22	47	21	9	77	2.31	46	15	9	70	2.10	46	19	9	74	2.22	44	22	10	76	2.28			
55	SHINDE OMKAR SANJAY	30	16	8	54	1.62	33	20	6	59	1.77	34	16	6	56	1.68	35	17	7	59	1.77	35	17	7	59	1.77			
56	SHINDE PRAJAKTA SUNIL	48	13	7	68	2.05	46	20	6	72	2.16	44	22	10	76	2.28	45	25	9	79	2.37	44	22	9	75	2.25			
57	SHINDE YOGESHWARI MADHAVRAO	46	32	8	86	2.58	44	21	5	70	2.10	45	16	10	71	2.13	42	17	8	67	2.01	47	19	9	75	2.25			
58	SHITAL MOTIRAM PAWAR	42	32	7	81	2.43	42	19	6	67	2.01	42	20	5	67	2.01	42	15	9	66	1.98	46	22	6	74	2.22			
59	SHUBHAM BHAT	37	32	9	78	2.34	39	22	7	68	2.04	39	22	9	70	2.10	38	15	8	61	1.83	38	19	9	66	1.98			
60	SNEHAL SANDESH GITE	38	29	7	74	2.23	39	19	6	64	1.92	40	17	5	62	1.86	38	15	9	62	1.86	38	22	8	66	1.98			
61	SUMIT SUNIL CHAUDHARI	35	16	7	58	1.74	37	27	6	70	2.10	37	22	10	69	2.07	36	12	8	56	1.68	38	19	9	66	1.98			
62	SURAJ RAJENDRA SONAWANE	38	16	8	62	1.86	37	27	9	73	2.19	37	22	7	71	2.13	40	17	8	65	1.95	39	19	10	68	2.04			
63	VIKIRAJ VISHNU DEMUNDE	44	32	9	85	2.55	42	15	8	65	1.95	44	20	6	61	1.83	39	15	9	63	1.89	38	22	10	70	2.10			
64	VITEKAR SAKSHI SANTOSH	46	24	6	76	2.28	40	22	7	69	2.07	38	17	6	61	1.83	39	15	8	72	2.16	46	19	9	74	2.22			
65	WAGHMARE KOMAL PRAVIN	46	27	9	82	2.45	46	22	9	77	2.31	46	25	7	78	2.34	45	19	8	69	2.07	44	19	9	72	2.16			
66	WAGHMARE SNEHA ANIL	45	27	9	81	2.42	45	21	9	75	2.25	45	25	7	77	2.31	44	17	8	65	1.95	46	17	9	72	2.16			
67	ZADBUKE SAMRUDHI SHARAD	44	27	9	80	2.39	45	25	7	77	2.31	47	25	8	80	2.40	43	15	7	65	1.95	46	17	9	72	2.16			
Threshold, 60%		30	24	6	60		30	24	6	60		30	24	6	60		30	24	6	60		30	24	6	60				
No. of students above threshold		65	45	64	62		65	23	61	63		66	13	62	62		65	21	65	58		97.01	11.94	58.51	94.03				
% of students scoring >= threshold		97.01	67.16	95.52	93	2.21	97	34	91	94	2.08	98.51	19.40	92.54	92.54	2.05	97.01	16.42	97.01	86.57		2.91	0.36	2.96	2.82				
		2.91	2.01	2.87	2.78		2.91	1.03	2.73	2.82		2.96	0.58	2.78	2.78														
CO attainment		CO 1 Attainment				CO 2 Attainment				CO 3 Attainment				CO 4 Attainment				CO 5 Attainment											
60% students got more than target																													
70% students got more than target																													
80% students got more than target																													

Prof. Shikha Jain
Subject Teacher

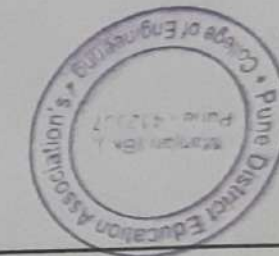
Dr. D.S.Hirolikar
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Dr. R. V. Patil
Principal

Principal

Pune District Education Association's
College of Engineering, Manjari (Bk.),
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Weighted Score: =SUMPRODUCT(weight_range*score_range)
Average: =AVERAGE(score_range)
Count if Met Threshold: =COUNTIF(score_range,">=threshold_value)/total_students



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DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE ARTICULATION MATRIX: CO-PO/PEO MAPPING

Course Name: Processor Architecture

Course code: 214451

Programme Outcomes (POs)

PSO

GRADUATE ATTRIBUTES	APPLY KNOWLEDGE	ANALYSIS	DESIGN	INVESTIGATION	MODERN TOOLS	SOCIETY	ENVIRONMENT	ETHICS	TEAM WORK	COMMUNICATION	PROJECT MANGMT & FINANCE	LIFE LONG LEARNING	PSO 1	PSO 2	PSO 3
COs	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	2	2	2	2	-	-	-	-	-	-	-	2	2	2	-
2	2	2	2	2	3	-	-	-	-	-	-	2	-	-	2
3	3	2	2	2	-	-	-	-	-	-	-	-	1	1	2
4	3	3	3	3	3	2	-	-	-	-	-	2	2	2	1
5	1	1	1	1	-	-	-	-	-	-	-	1	2	1	-
Weighted Avg.	2.20	2.00	2.00	2.00	3.00	2.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.75	1.75	1.50	1.67
Course PO/PSO attainment	1.76	1.60	1.60	1.60	2.40	1.60	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.40	1.40	1.20	1.33
Attainment in %	58.67	53.33	53.33	53.33	80.00	53.33	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	46.67	46.67	40.00	44.44
Mapping correlation				Low	Medium	High	No								
				1	2	3	-								

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DEPARTMENT OF Information Technology
COMPUTATION OF COURSE ATTAINMENT



Course Name: Processor Architecture

Course code:214451

COURSE ATTAINMENT

Final Direct Course Attainment Calculation

COs	Assign 1	Assign 2	Assign 3	Assign 4	Assign 5	Assign 6	Mock INSEM	Mock End	Quiz	INT Assess (IA)	EXT Asses (UNI)	Direct CO Attainment= ((0.3*IA)+(0.7*EA))	Final Indirect Course attainment calculation
CO 1	2.91		-	-	-	-	2.06	-	2.87	2.61		2.46	2.46
CO 2	-	2.91	2.96	2.96	2.91	-	1.16	0.54	2.73	2.31		2.37	2.57
CO 3	-	2.96	2.74	-	-	-	2	0.22	2.78	2.18	2.40	2.33	2.42
CO 4	-	-	2.96	2.91	2.91	-	-	0.49	2.91	2.44		2.41	2.79
CO 5	-	-	-	-	-	2.96	-	1.12	2.96	2.35		2.38	2.56
Attainment										2.38	2.40		
Final Direct Total Attainment(30% IA + 70% EA)										0.71	1.68	2.39	2.56
Weightage											90%		10%
Total attainment											2.15		0.25
Overall Course Attainment												2.40	

Shikha Jain
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