



# AKHIL BHARATIYA MARATHA SHIKSHAN PARISHAD'S ANANTRAO PAWAR COLLEGE OF ENGINEERING & RESEARCH



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Approved by AICTE & Govt. of Maharashtra, Affiliated to Savitribai Phule Pune University  
**NAAC ACCREDITED**, DTE CODE - EN 6794, AISHE CODE - C-41484  
Savitribai Phule Pune University Identification No. PU/PN/Engg. / 441/2012

Anantrao Pawar College of engineering and Research, Pune offered 6 Under Graduate and 2 Post Graduate programs and courses under the Faculty Science and Technology of Savitribai Phule Pune University. For these programs and courses, the institute followed the curriculum designed by our affiliated university. The Programme outcomes (POs), Programme specific outcomes (PSOs) and Course outcomes (Cos) are evaluated by the institution and the same are communicated to the students in the formal way of the discussion in the classroom and departmental notice board.

After measuring attainment of POs, PSOs and COs, it has been observed that the strength of the students as well as passing percentage of the students is increasing progressively. Besides, students' progression to the higher studies that is from Under Graduate to Post Graduate seems to be increasing consistently and rapidly in the last five years.

In a similar way, the ratio of students' placement is also increasing. We took utmost care of measuring the level of attainment of POs, PSOs and COs and followed formal as well as informal mechanism for the measurement of attainment of the outcomes. Even we took feedback from all the stakeholders in this respect and try to take necessary steps accordingly.

Subsequently, the institute took care of the attainment to measure the POs, PSOs and COs and implemented the mechanism as follows:-

- The institute followed the Academic Calendar of our affiliated university.
- All the subject teachers maintained Academic Diary in every academic year.
- All the subject teachers prepared Semester-Wise evaluation Reports.
- Internal examination committee analyzed evaluation reports of results.
- Institute considered Feedback from the Stakeholders for the attainment of PO, PSO and CO.
- Placement committee took the review of the Students' Progression to Higher Studies and their Placement.

The Program outcomes of Bachelor of Engineering are as follows:

PO1: The students understood the fundamentals of science and engineering.

PO2: The students' knowledge in engineering and research is enriched.

PO3: Interdisciplinary approach amongst students has been developed.

PO4: Sense of scientific, technological responsibilities, social and environmental awareness have been inculcated among the students.

PO5: Students built-up a progressive and successful career in academics, industry and research.

PO6: Students are motivated to contribute in the development of Nation and community. Attainments of CO's are calculated by using university examination results. Attainment levels are finalized at institute level and conveyed to IQAC. The attainment level of each CO is computed by setting weights as follows:

Weight	1	2	3	4
	40%	41-52%	53-64%	65% and above
<b>Benchmark</b>	Number of students securing below	Number of students securing above	Number of students securing above	Number of students securing

The averages attainment of COs of each course is mapped to POs & PSOs. Sample sheets attainment of COs, PSOs and POs for B.E is uploaded on institute website.



**Principal**  
Anantrao Pawar College of Engineering  
& Research, Parvati, Pune - 9



**Akhil Bharatiya Maratha Shikshan Parishad's  
Anantrao Pawar College of Engineering and Research,  
Parvati Pune**



**CO-PO Mapping & Attainment**

**Department: Mechanical Engineering**

<b>Academic Year and Semester :-</b>	<b>2022-2023 SEM II (2019 Pattern)</b>
<b>Course Title:</b>	<b>Computer Integrated Manufacturing</b>
<b>Course Code:</b>	<b>C408</b>
<b>Name of the Faculty :-</b>	<b>Asst. Prof. S. V. Raut</b>

*S. V. Raut*



*S. V. Raut*

## Computer Integrated Manufacturing

### Scheme

Lectures	Tutorials	Practicals	Theory Marks	TermWork	Practical/Oral	Oral & Termwork	Total	Credits
4		2	100	25	25		150	4
<b>Course Code:</b>		<b>C408</b>						
<b>Course Outcomes: Describe what students should demonstrate upon the completion of a course.</b>								
<b>C408.1</b>	EXPLAIN CIM and factory automation.							
<b>C408.2</b>	UNDERSTAND the integration of hardware and software elements for CIM							
<b>C408.3</b>	APPLY CNC program for appropriate manufacturing techniques							
<b>C408.4</b>	ANALYZE processes planning, quality and MRP integrated with computers.							
<b>C408.5</b>	INTERPRET flexible, cellular manufacturing and group technology.							
<b>C408.6</b>	ANALYZE the effect of IOT, Industry-4.0 and cloud base manufacturing.							
<b>Course Assessment Method: Insem Exam/Endsem Exam/Practical/Oral/Term work</b>						<b>Based on Unit</b>	<b>CO- Unit mapping</b>	
IN-SEM Exam						1, 2 & 3	CO1, CO2	
END-SEM University Exam						All units	CO3, CO4, CO5 & CO6	
Tutorial/TW/Practical						All units	CO1, CO2, CO3, CO4, CO5 & CO6	
Internal Examinations						All units	CO1, CO2, CO3, CO4, CO5 & CO6	

  
**Subject Incharge**  
**Prof.Sandeep Raut**

  
**HoD**  
**Dr.Dattatrey Kamble**



Department: Mechanical Engineering	
Sr.No	PO's
1	<b>Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2	<b>Problem analysis:</b> Identify, formulate, Review research literature, and analyze complex engineering problems reaching substantiated conclusions, using first principles of mathematics, natural sciences, and engineering sciences.
3	<b>Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4	<b>Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5	<b>Modern tool usage:</b> Create, select, and apply appropriate Techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6	<b>The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7	<b>Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9	<b>Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10	<b>Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11	<b>Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12	<b>Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PSO's	
PSO 1	Analyze principles of energy mechanisms to solve a wide range of thermal engineering problems.
PSO 2	Understanding of analysis, synthesis and control manufacturing operations using statistical and calculus based methods, simulations and information technology.
PSO3	Emphasizes systems approach to automotive design.
PSO4	Develop adequate interpersonal skills to solve managerial and technical issues

  
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## CO-PO & PSO Mapping

### Computer Integrated Manufacturing

CO/PO	CO-PO Mapping												CO-PSO Mapping			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
C408.1	1				1									2		1
C408.2	2			2										1		
C408.3	1				2									2		
C408.4		2			1	2								1	1	
C408.5			2	2										1	1	
C408.6					3		1							1		1
<b>CO SUM</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>7</b>	<b>2</b>	<b>1</b>							<b>8</b>	<b>2</b>	
	1.33	2.00	2.00	2.00	1.75	2.00	1.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.33	1.00	1.00

High = 2



Subject Incharge

Prof.Sandeep Raut




HoD

Dr.Dattatrey Kamble

## Impact Analysis

			IN-SEM ONLINE	Endsem	External TW	External OR
Sr. No.	Exam No	Name	30	70	25	25
1	B191100801	ABHIJIT KESHAV KANADE	20	28	21	20
2	B191100802	ABNAVE PRADYUMNAY VISHVAJEET	24	29	23	22
3	B191100803	AMIT ANWAR SOTA	16	30	22	20
4	B191100804	AREKAR ROHIT HANUMANT	19	31	23	21
5	B191100805	AWASARMAL RUTESH SUDHIR	24	49	22	21
6	B191100806	BANKAR MALLIKARJUN GURUNATH	23	28	19	18
7	B191100807	BHALERAO SOMESH PRADEEP	18	31	22	22
8	B191100808	BHOSALE KARTIK SUDESH	19	29	22	22
9	B191100809	BIBWE MITHILESH SHIVAJI	24	34	22	20
10	B191100810	BORALE GANESH RAMESH	21	33	21	20
11	B191100811	CHAVAN AKASH SANTOSH	25	37	23	23
12	B191100812	DAHALE HARSHAL BABULAL	16	28	21	20
13	B191100813	DESHMUKH ATHARVA NAGESH	23	32	22	21
14	B191100814	DHUMAL ATHARVA KAVISHWAR	16	12	20	19
15	B191100815	GAURAV RAJENDRA MOHITE	16	28	21	20
16	B191100816	GUPTA ABHISHEK SHIVSHANKAR	25	35	23	23
17	B191100817	HALINGALE KARAN MAHAVIR	18	18	21	20
18	B191100818	JAMADAR MAHIBOOB BASHASAB	16	16	19	18
19	B191100819	JOSHI HERAMB VIDYADHAR	18	17	22	21
20	B191100820	KARNE ASHISH VINOD	16	19	21	21
21	B191100821	KARNIK SHASHANK HEMANT	23	48	22	22
22	B191100822	KATE VIRAJ VINAYAK	16	29	22	21
23	B191100823	KHEDEKAR DARSHAK RAMDAS	16	34	21	20
24	B191100824	KOSANDAR PRANAY RAJU	16	10	19	18
25	B191100825	KUMTHEKAR ASHWINI MACHHINDRA	20	28	22	21
26	B191100826	KURKULE GANESH RAJKUMAR	20	29	23	23
27	B191100827	MAHENDRA HANUMANTA KOLI	24	32	22	21
28	B191100828	MANE SIDDHARTH VIJAY	23	32	22	22
29	B191100829	MOHAMMAD MANZOORUL AMAN AHMED MOHAMMAD MUSTAFA AHMED	23	28	22	21
30	B191100830	NAGALKAR AKASH MAHADEV	22	28	22	21
31	B191100831	PATIL SAYYAM ANILKUMAR	16	29	20	19
32	B191100832	PAWAR RAHUL RAJU	21	40	22	21
33	B191100833	PAWAR RUTIK TANAJI	22	34	22	21
34	B191100834	PHAND BHUSHAN BALASAHEB	21	34	21	20
35	B191100835	RAWOOT ZUHEB LIYAKAT	20	30	21	20
36	B191100836	SANAKE RISHAB DEVANAND	23	37	21	20
37	B191100837	SATYAM SHRIKANT MEMANE	21	37	22	21
38	B191100838	SAWANT RUTUJA BHARAT	26	50	23	23
39	B191100839	SHUBHAM DILIP KOLI	AB	28	20	19
40	B191100840	SONAWANE DANIEL MADHUKAR	20	31	21	20
41	B191100842	VISHAL GANGADHAR DANGE	16	33	20	20
42	B191100843	ZORE PRATHAMESH SUNIL	16	39	21	20
		Average	20.05	30.57	21.45	20.62

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Academic Year	In semester					External Examination					Oral/Practical/Tutorial				
	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)
II	50	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above

  
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Academic Year	In semester					External Examination					Oral/Practical/Tutorial				
	Target	t Level 0	t Level 1	t Level 2	t Level 3	Target	t Level 0	t Level 1	t Level 2	t Level 3	Target	t Level 0	t Level 1	t Level 2	t Level 3
II	50	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above

  
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Direct Assessment				
			Insem Prelim Exam	Endsem Prelim Exam
CO Mapped			CO1,CO2	CO3,CO4,CO5, CO6
Sr. No.	Exam No	Student Name		
1	B191100801	ABHIJIT KESHAV KANADE	23	44
2	B191100802	ABNAVE PRADYUMNAY VISHVAJEET	27	48
3	B191100803	AMIT ANWAR SOTA	25	48
4	B191100804	AREKAR ROHIT HANUMANT	25	48
5	B191100805	AWASARMAL RUTESH SUDHIR	25	48
6	B191100806	BANKAR MALLIKARJUN GURUNATH	23	44
7	B191100807	BHALERAO SOMESH PRADEEP	21	40
8	B191100808	BHOSALE KARTIK SUDESH	25	55
9	B191100809	BIBWE MITHILESH SHIVAJI	26	50
10	B191100810	BORALE GANESH RAMESH	21	40
11	B191100811	CHAVAN AKASH SANTOSH	21	40
12	B191100812	DAHALE HARSHAL BABULAL	23	44
13	B191100813	DESHMUKH ATHARVA NAGESH	24	46
14	B191100814	DHUMAL ATHARVA	22	42
15	B191100815	GAURAV RAJENDRA MOHITE	22	42
16	B191100816	GUPTA ABHISHEK	26	55
17	B191100817	HALINGALE KARAN MAHAVIR	21	40
18	B191100818	JAMADAR MAHIBOOB	24	46
19	B191100819	JOSHI HERAMB VIDYADHAR	23	44
20	B191100820	KARNE ASHISH VINOD	21	40
21	B191100821	KARNIK SHASHANK HEMANT	24	46
22	B191100822	KATE VIRAJ VINAYAK	25	48
23	B191100823	KHEDEKAR DARSHAK RAMDAS	21	40
24	B191100824	KOSANDAR PRANAY RAJU	20	40
25	B191100825	KUMTHEKAR ASHWINI	24	46
26	B191100826	KURKULE GANESH RAJKUMAR	24	46
27	B191100827	MAHENDRA HANUMANTA KOLI	23	44
28	B191100828	MANE SIDDHARTH VIJAY	23	44
29	B191100829	MOHAMMAD MANZoorUL	21	40
30	B191100830	NAGALKAR AKASH MAHADEV	27	52
31	B191100831	PATIL SAYYAM ANILKUMAR	23	44
32	B191100832	PAWAR RAHUL RAJU	21	40
33	B191100833	PAWAR RUTIK TANAJI	27	52
34	B191100834	PHAND BHUSHAN BALASAHEB	23	44
35	B191100835	RAWOOT ZUHEB LIYAKAT	24	46
36	B191100836	SANAKE RISHAB DEVANAND	26	50
37	B191100837	SATYAM SHRIKANT MEMANE	27	52
38	B191100838	SAWANT RUTUJA BHARAT	22	55
39	B191100839	SHUBHAM DILIP KOLI	25	48
40	B191100840	SONAWANE DANIEL	26	52
41	B191100842	VISHAL GANGADHAR DANGE	24	46
42	B191100843	ZORE PRATHAMESH SUNIL	23	44
Average			26.00	50.00

*S.Raut*  
Subject Incharge  
Prof.Sandeep Raut



*D.Dattatreya Kamble*  
HoD  
Dr.Dattatreya Kamble

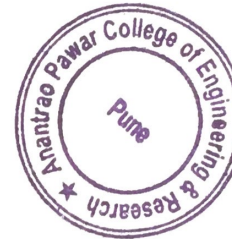
Total Marks	INSEM PRELIM Exam		End Semester Exam	
	30		70	
CO Mapped	CO1,CO2,CO3		CO1 TO CO6	
Average Marks	#REF!		#REF!	
Target Marks (Passing Marks) %	60		60	
Target marks (Passing Marks)	18.0		42.0	
Total Number of Students	0		0	
Total Number of students passed above Target Marks	0		0	
% of passing	#DIV/0!		#DIV/0!	
Attainment level	#DIV/0!		#DIV/0!	

Session 2020-21 (SEM-I)									
PO Attainment Target: 50%									
Academic Year	Internal Examination								
	Attainment Level 2	Attainment Level 3	Target				Attainment Level 2	Attainment Level 3	
	(%)	(%)	(%)				(%)	(%)	
II	41 to 59	60 and above	57.5				41 to 59	60 and above	
III	41 to 59	60 and above	60				41 to 59	60 and above	
IV	41 to 59	60 and above	65				41 to 59	60 and above	

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Session 2020-21 (SEM-I)									
PO Attainment Target: 50%									
Academic Year	In semester					Internal Examination			
	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)	Target (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)
	II	50	0 to 49	50 to 59	60 to 69	70 and Above	57.5	0 to 40	41 to 59
III	55	0 to 49	50 to 59	60 to 69	70 and Above	60	0 to 40	41 to 59	60 and above
IV	60	0 to 49	50 to 59	60 to 69	70 and Above	65	0 to 40	41 to 59	60 and above

*V. Kamble*  
HOD  
Dr. Dattatray Kamble





**Akhil Bharatiya Maratha Shikshan Parishad's  
Anantrao Pawar College of Engineering & Research**



Record No.: ADM/D/036B


DoI: 02/01/2023

Revision: 00


**Internal Correspondence For Department**

**Course Exit Survey**

Sr. No.	Question	CO	Level of Agreement		
			High (3)	Medium (2)	Low (1)
1	EXPLAIN CIM and factory automation.	C408.1			
2	UNDERSTAND the integration of hardware and software elements for CIM	C408.2			
3	APPLY CNC program for appropriate manufacturing techniques	C408.3			
4	ANALYZE processes planning, quality and MRP integrated with computers.	C408.4			
5	INTERPRET flexible, cellular manufacturing and group technology.	C408.5			
6	ANALYZE the effect of IOT, Industry-4.0 and cloud base manufacturing.	C408.6			

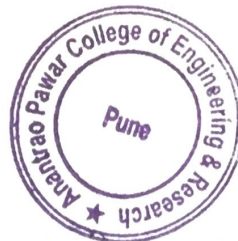
  
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23	KHEDEKAR DARSHAK RAMDAS	3	3	3	3	1	2
24	KOSANDAR PRANAY RAJU	1	3	2	3	2	1
25	KUMTHEKAR ASHWINI MACHHINDRA	1	1	2	1	1	2
26	KURKULE GANESH RAJKUMAR	2	3	2	1	3	2
27	MAHENDRA HANUMANTA KOLI	3	1	3	1	2	1
28	MANE SIDDHARTH VIJAY	2	2	3	3	2	2
29	MOHAMMAD MANZOORUL AMAN AHMED MOHAMMAD MUSTAFA	2	2	1	1	1	2
30	NAGALKAR AKASH MAHADEV	2	2	2	1	2	2
31	PATIL SAYYAM ANILKUMAR	2	2	1	2	3	2
32	PAWAR RAHUL RAJU	1	1	2	2	2	3
33	PAWAR RUTIK TANAJI	2	2	3	2	3	3
34	PHAND BHUSHAN BALASAHEB	3	2	2	3	2	1
35	RAWOOT ZUHEB LIYAKAT	2	2	2	1	1	3
36	SANAKE RISHAB DEVANAND	1	3	2	3	2	1
37	SATYAM SHRIKANT MEMANE	1	1	2	1	1	2
38	SAWANT RUTUJA BHARAT	2	2	1	1	1	2
39	SHUBHAM DILIP KOLI	2	1	2	2	1	2
40	SONAWANE DANIEL MADHUKAR	2	1	3	2	2	1
41	VISHAL GANGADHAR DANGE	1	3	2	1	1	2
42	ZORE PRATHAMESH SUNIL	2	2	2	2	2	2
	Average	2	2	2	2	2	2

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CO Attainment						
CO→	C408.1	C408.2	C408.3	C408.4	C408.5	C408.6
Assessment tools↓						
Direct Assessment						
External Assessment						
University exams						
IN Sem Exam/Online 1	3	3				
End Sem Result/Online 2			0	0	0	0
Oral/Practical/TW	3	3	3	3	3	3
a = Average Attainment	3	3	2	2	1.5	1.5
Weighted attainment A=a*0.6	1.8	1.8	0.9	0.9	0.9	0.9
Internal Assessment						
MID Semester Exam	3	3				
END Semester Exam			3	3	3	3
b = Average Attainment	3	3	3	3	3	3
Weighted attainment B=b*0.2	0.6	0.6	0.6	0.6	0.6	0.6
Indirect Assessment						
c = Course Exit Survey Attainment	3.0	3.0	3.0	3.0	3.0	3.0
Indirect Attainment C= c*0.2	0.6	0.6	0.6	0.6	0.6	0.6
CO Attainment = A+B+C	3.0	3.0	2.1	2.1	2.1	2.1

Average

1.20

0.60


0.60

2.40


2.4


  
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PO & PSO Attainment																	
Direct PO Attainment														PSO Attainment			
CO\PO	CO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
C408.1	3.00	1				1									2		1
C408.2	3.00	2			2										1		
C408.3	2.10	1				2									2		
C408.4	2.10		2			1	2								1	1	
C408.5	2.10				2										1	1	
C408.6	2.10					3		1							1.00		1
<b>Sum of weight</b>		4	2	0	4	7	2	1			0.0		0	0	8	2	2
Overall Direct PO Attainment (90 %)		1.23	1.40	0.00	1.70	1.30	1.40	0.70	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.70	0.85
A = Overall Direct PO Attainment*0.9		1.11	1.26	0.00	1.53	1.17	1.26	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.63	0.77
Indirect PO Attainment																	
10%	PO_PSO Exit Survey	1.79	1.74	1.74	1.83	1.83	1.60	1.62	1.55	1.74	1.67	1.67	1.83	1.71	1.79	1.93	1.67
	Alumni Survey	1.75	1.88	1.71	1.90	1.90	1.41	1.27	1.29	1.31	1.25	1.27	1.33	1.82	1.78	1.59	1.66
	Employer Survey	1.60	2.20	2.00	2.20	1.60	1.20	1.20	1.20	1.20	1.20	1.00	1.40	1.80	1.60	2.00	1.60
	Industrial visit survey																
	Total	1.71	1.94	1.81	1.98	1.78	1.40	1.36	1.35	1.42	1.37	1.31	1.52	1.78	1.72	1.84	1.64
B = Overall Indirect PO attainment (10%)		0.17	0.19	0.18	0.20	0.18	0.14	0.14	0.13	0.14	0.14	0.13	0.15	0.18	0.17	0.18	0.16
<b>Overall PO attainment (A+B)</b>		<b>1.28</b>	<b>1.45</b>	<b>0.18</b>	<b>1.73</b>	<b>1.35</b>	<b>1.40</b>	<b>0.77</b>	<b>0.13</b>	<b>0.14</b>	<b>0.14</b>	<b>0.13</b>	<b>0.15</b>	<b>0.18</b>	<b>1.15</b>	<b>0.81</b>	<b>0.93</b>

  
 Subject Incharge  
 Prof. Sandeep Raut

  
 HoD  
 Dr. Dattatrey Kamble



## University Examination

Year 2019-20

PO Attainment Target: 50%

Academic Year	In semester					External Examination					Oral/Practical/Tutorial				
	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)
II	50	0 to 49	50 to 59	60 to 69	70 and Above	50	0 to 49	50 to 59	60 to 69	70 and Above	50	0 to 49	50 to 59	60 to 69	70 and Above
III	52.5	0 to 49	50 to 59	60 to 69	70 and Above	52.5	0 to 49	50 to 59	60 to 69	70 and Above	52.5	0 to 49	50 to 59	60 to 69	70 and Above
IV	55	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above

Year 2020-21

PO Attainment Target: 52.5%

Academic Year	In semester					External Examination					Oral/Practical/Tutorial				
	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)
II	52.5	0 to 49	50 to 59	60 to 69	70 and Above	52.5	0 to 49	50 to 59	60 to 69	70 and Above	52.5	0 to 49	50 to 59	60 to 69	70 and Above
III	55	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above
IV	57.5	0 to 49	50 to 59	60 to 69	70 and Above	57.5	0 to 49	50 to 59	60 to 69	70 and Above	57.5	0 to 49	50 to 59	60 to 69	70 and Above

Year 2021-22

PO Attainment Target: 55%

Academic Year	In semester					External Examination					Oral/Practical/Tutorial				
	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)	Target	Attainment Level 0 (%)	Attainment Level 1 (%)	Attainment Level 2 (%)	Attainment Level 3 (%)
II	55	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above	55	0 to 49	50 to 59	60 to 69	70 and Above
III	57.5	0 to 49	50 to 59	60 to 69	70 and Above	57.5	0 to 49	50 to 59	60 to 69	70 and Above	57.5	0 to 49	50 to 59	60 to 69	70 and Above
IV	60	0 to 49	50 to 59	60 to 69	70 and Above	60	0 to 49	50 to 59	60 to 69	70 and Above	60	0 to 49	50 to 59	60 to 69	70 and Above

*S. V. Raut*  
Subject Incharge  
Prof. Sandeep Raut



*Dr. Dattatrey Kamble*  
HoD  
Dr. Dattatrey Kamble