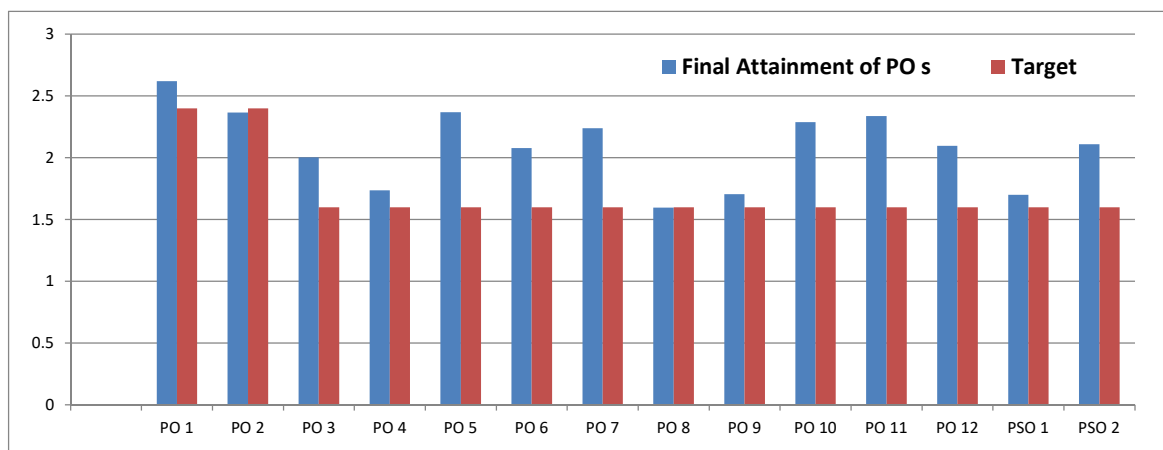



Annasaheb Dange College of Engineering and Technology, Ashta
Department of Mechanical Engineering
Final PO Attainment
Academic Batch 2018-19 to 2021-22

PO	Direct attainment through course outcomes	Average attainment through direct rubric	Direct Attainment of PO	Average In-direct Attainment of PO	Target	Final Attainment of PO s	Status
PO 1	2.31	2.95	2.57	2.83	3.0	2.62	A
PO 2	1.72	3.00	2.23	2.91	3.0	2.37	A
PO 3	1.21	3.00	1.93	2.29	2.0	2.00	A
PO 4	1.62	3.00	2.17		2.0	1.74	A
PO 5	1.80	3.00	2.28	2.72	2.0	2.37	A
PO 6	1.21	3.00	1.93	2.68	2.0	2.08	A
PO 7	1.57	3.00	2.14	2.64	2.0	2.24	A
PO 8	1.69	1.00	1.41	2.33	2.0	1.60	A
PO 9	1.80	1.00	1.48	2.61	2.0	1.71	A
PO 10	1.71	3.00	2.22	2.55	2.0	2.29	A
PO 11	1.67	3.00	2.20	2.88	2.0	2.34	A
PO 12	1.31	3.00	1.98	2.54	2.0	2.10	A
PSO 1	1.49	2.02	1.70		2.0	1.70	A
PSO 2	1.68	2.72	2.10		2.0	2.11	A

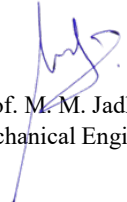
A- Attained

NA- Not Attained




 Prof. S. A. Mulya
 NBA Co-ordinator




 Prof. M. M. Jadhav
 HOD, Mechanical Engineering

Annasaheb Dange College of Engineering and Technology, Ashta
Department of Mechanical Engineering
CO and PO Attainment
Academic Batch 2018-19 to 2021-22

Sr. No.	COURSE	CODE	Div	Program Outcomes													
				PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO12	PSO1	PSO2
1	Applied Physics	0BSBS101		1.72	1.37												
2	Applied Maths-I	0BSBS102		1.95	0.76												
3	Basic Electrical	0BSES103		1.57	1.50												
4	Basic Civil	0BSES104		1.47	1.45												
5	Engineering Graphics	0BSES105		1.86	1.42												
6	Professional Communication	0BSHS106									0.88		2.07				
7	Applied Maths-I Tut	0BSBS107		2.12	0.79												
8	Applied Chemistry	0BSBS108		1.96	1.85												
9	Basic Electronics Engg.	0BSES109		1.63	0.81	0.59											
10	Engineering Mechanics	0BSES110		2.23	1.48												
11	Basic Mechanical Engg.	0BSES111		1.54	0.70												
12	Computer Programming	0BSES112		1.50	1.50												
13	Applied Maths II	0BSBS113		1.38	0.77												
14	Applied Maths II Tut	0BSBS114		1.99	1.06												
15	Workshop Practice	0BSES151		2.17	1.32												
16	Applied Physics Lab	0BSBS152		1.78	0.89			0.87			0.75	0.86	0.86				
17	Basic Electrical	0BSES153		1.47	0.80							1.72	1.60		1.56		
18	Basic Civil lab	0BSES154		1.76	1.76			1.70	1.50		1.52		1.69				
19	Engineering Graphics	0BSES155		1.64	1.64						0.74		1.48				
20	Professional Communication	0BSHS156						1.71			1.29	1.72	2.33				
21	Basic Electronics Lab	0BSES157		1.74	0.88	0.88					1.56	1.09	1.66				
22	Applied Chemistry	0BSBS158		1.74	0.87					0.75	0.86	0.82	0.86				
23	Engineering Mechanics	0BSES159		2.65	1.77						2.00		2.00				
24	Basic Mechanical Engg.	0BSES160		2.08	0.89						0.82		0.77				
25	Computer Programming	0BSES161		1.93	1.93		2.60		1.68		1.68				1.68		



20	Applied Mathematics-III	0MEBS201	A	1.79	0.97												
			B	1.79	0.97												
			C	1.79	0.97												
			D	1.79	0.97												
21	Engineering Thermodynamics	0MEPC202	A	1.57	2.00				1.00								
			B	1.53	1.90				1.00								
			C	1.53	1.84				0.98								
			D	1.66	2.00				1.00								
22	Fluid Mechanics	0MEPC203	A	1.44	1.47												
			B	1.44	1.47												
			C	1.35	1.08												
			D	1.60	1.37												
23	Manufacturing Processes and Machine Tools	0MEPC204	A	1.50					0.80								
			B	2.09					0.88								
			C	1.50					0.80								
			D	2.09					0.88								
24	Machine Drawing	0MEPC205	A	1.69	1.08				0.49								
			B	1.69	0.96				0.52								
			C	1.85	1.25				0.67								
			D	2.02	1.32				0.72								
25	Computer Programming Using C++	0MEES206	A	2.40	1.70												
			B	2.10	1.66												
			C	2.50	1.70												
			D	2.40	1.35												
26	Environmental Studies	0MEMC207	A	2.00					3.00	2.00	2.00	2.00			2.00		
			B	2.00					3.00	2.00	2.00	2.00			2.00		
			C	2.00					3.00	2.00	2.00	2.00			2.00		
			D	2.00					3.00	2.00	2.00	2.00			2.00		
27	Fluid Mechanics Laboratory	0MEPC251	A	2.00	2.00						2.00	1.00	2.00				
			B	2.00	2.00						2.00	1.00	2.00				
			C	2.00	2.00						2.00	1.00	2.00				
			D	2.00	2.00						2.00	1.00	2.00				
28	Machine Drawing Laboratory	0MEPC252	A	1.71				1.54			0.66		1.42				
			B	0.31				0.34			0.66		0.07				
			C	1.76				1.76			1.61		1.29				
			D	1.76				1.76			1.60		1.55				
29	Computer Programming Using C++ Laboratory	0MEES253	A	2.40	2.33			2.80			1.66		1.66		0.66		
			B	2.22	2.33			2.70			1.66		1.66		0.66		
			C	2.24	2.33			2.26			1.66		1.66		0.66		
			D	2.39	2.33			2.69			1.66		1.66		0.66		



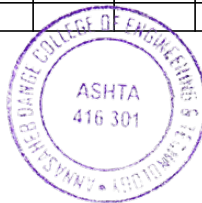
30	Workshop Practice -III	0MEPC254	A	2.98	2.00						2.00	2.00	2.00		2.00		
			B	2.98	2.00						1.97	1.97	1.97		2.00		
			C	2.98	2.00						2.00	2.00	2.00		2.00		
			D	2.98	2.00						1.97	1.97	1.97		2.00		
31	General Proficiency	0MEHS255	A					1.69			1.66	1.66	2.35				
			B					1.34			1.66	1.66	2.12				
			C					1.45			1.66	1.66	2.10				
			D					1.70			1.66	1.66	2.30				
32	Applied Numerical Methods	0MEES208	A	2.54	1.49				0.98								
			B	2.54	1.49				0.98								
			C	2.77	1.69				0.98								
			D	2.85	1.72				0.98								
33	Mechanics of Materials	0MEPC209	A	2.65	1.91				1.00								
			B	2.66	1.92				1.00								
			C	2.60	1.88				1.00								
			D	2.72	1.96				1.00								
34	Thermal Engineering	0MEPC210	A	1.72	1.03												
			B	1.72	1.03												
			C	1.72	1.03												
			D	1.64	0.97												
35	Hydraulic Machines	0MEPC211	A	2.16	1.34	0.70											
			B	2.08	1.29	0.67											
			C	2.08	1.29	0.67											
			D	2.08	1.29	0.67											
36	Kinematics of Machines	0MEPC212	A	2.12	1.55	0.93											
			B	2.11	1.53	0.91											
			C	2.45	1.27	0.93											
			D	2.45	1.27	0.91											
37	Materials Science and Metallurgy	0MEPC213	A	1.66	1.69				1.00	0.73							
			B	1.66	1.69				1.00	0.73							
			C	1.66	1.69				1.00	0.73							
			D	1.66	1.69				1.00	0.73							
38	Numerical Methods using MATLAB Laboratory	0MEES257	A	2.00				2.00			2.00		2.00		2.00		
			B	2.00				2.00			2.00		2.00		2.00		
			C	2.00				2.00			2.00		2.00		2.00		
			D	2.00				2.00			2.00		2.00		2.00		
39	Hydraulic Machines Laboratory	0MEPC258	A	3.00	3.00	2.00	2.00				3.00	2.00	2.00				
			B	2.74	2.74	1.83	1.83				3.00	2.00	2.00				
			C	2.74	2.74	1.83	1.83				3.00	2.00	2.00				
			D	2.74	2.74	1.83	1.83				3.00	2.00	2.00				



40	Kinematics of Machines Laboratory	0MEPC259	A	2.33	1.50						0.86	0.97	0.86				
			B	2.33	1.50						0.86	0.97	0.86				
			C	2.33	1.50						0.94	1.00	0.94				
			D	2.33	1.50						0.94	1.00	0.94				
41	Materials Science and Metallurgy Laboratory	0MEPC260	A	1.50	1.50			2.00			1.00	2.00	1.00				
			B	1.50	1.50			2.00			1.00	2.00	1.00				
			C	1.50	1.50			2.00			1.00	2.00	1.00				
			D	1.50	1.50			2.00			1.00	2.00	1.00				
42	Computer Aided Design Laboratory	0MEPC261	A	2.43	2.43			2.43			1.94		1.94		0.97		
			B	2.50	2.50			2.50			2.00		2.00		1.00		
			C	2.34	2.34			2.34			1.87		1.87		0.94		
			D	2.46	2.46			2.46			1.97		1.97		0.99		
43	Workshop Practice -IV	0MEPC262	A	2.93					1.00		2.00	1.91		0.93	1.00		
			B	2.93					1.00		2.00	1.91		0.93	1.00		
			C	2.93					1.00		2.00	1.91		0.93	1.00		
			D	2.93					1.00		2.00	1.91		0.93	1.00		
23	Design of Machine Elements-I	0MEPC301	A	2.66	2.00	1.00											
			B	2.11	1.30	0.81											
			C	2.65	2.00	1.00											
			D	2.13	1.31	0.81											
24	Heat Transfer	0MEPC302	A	2.68	1.90	1.00			1.00								
			B	2.73	1.97	1.00			1.00								
			C	2.78	1.98	1.00			1.00								
			D	2.70	1.94	1.00			1.00								
25	Dynamics of Machines	0MEPC303	A	2.90	1.80	1.00											
			B	3.00	1.80	1.00											
			C	2.78	1.80	1.00											
			D	2.83	1.68	1.00											
26	Control Engineering	0MEPC304	A	2.65	1.91			0.85			1.70	1.70	1.70				
			B	2.63	1.90			0.84			1.67	1.67	1.67				
			C	2.81	1.49												
			D	2.67	1.43												
27	Manufacturing Engineering	0MEPC305	A	2.12	1.53	0.60											
			B	1.97	1.37	0.49											
			C	1.90	1.37	0.39											
			D	1.97	1.23	0.49											
28	Professional Elective-I Advanced Mechanics of Solids	0MEPC306	A	2.80	2.00	1.00											
			B	2.80	2.00	1.00											
29	Professional Elective-I Advanced Foundry Technology	0MEPC307	C	2.60	1.70												



30	Professional Elective-I Fluid Dynamics	0MEPC308	D	1.71	0.80				0.64								
31	Heat Transfer Lab	0MEPC351	A	2.84	1.89						2.00	2.00	2.00				
			B	2.84	1.89						2.00	2.00	2.00				
			C	2.84	1.89						2.00	2.00	2.00				
			D	2.84	1.89						2.00	2.00	2.00				
32	Dynamics of Machines Lab	0MEPC352	A	2.50	1.75						0.66		0.66				
			B	2.50	1.75						1.00		1.00				
			C	2.50	1.75						1.00		1.00				
			D	2.50	1.75						1.00		1.00				
33	Manufacturing Engineering Lab	0MEPC353	A	2.61	1.95	1.00					1.81	1.90	2.00				
			B	2.61	1.95	1.00					1.81	1.90	2.00				
			C	2.61	1.95	1.00					1.81	1.90	2.00				
			D	2.61	1.95	1.00					1.81	1.90	2.00				
34	Computer Aided Manufacturing Lab	0MEPC354	A	2.49	1.99			1.99			1.00		1.99		1.00		
			B	2.50	2.00			2.00			1.00		2.00		1.00		
			C	2.49	1.99			1.99			1.00		1.99		1.00		
			D	2.49	1.99			1.99			1.00		1.99		1.00		
35	Workshop Practice -V	0MEPC355	A	2.50	2.00						2.00	3.00					
			B	3.00	2.00						2.00	3.00					
			C	2.50	2.00						2.00	3.00					
			D	2.50	2.00						2.00	3.00					
36	Mini Project-I	0MEPR356	A,B,C,D	1.75	1.17	2.00			2.00	1.75	1.33	2.00	1.75	2.00		1.75	1.75
37	Mechanical Measurement Laboratory	0MEPC357	A	1.86	1.86			1.00			2.00	1.50	2.00		1.00		
			B	1.86	1.86			1.00			2.00	1.50	2.00		1.00		
			C	1.89	1.89			1.00			2.00	2.00	2.00		2.00		
			D	1.86	1.86			1.00			2.00	1.50	2.00		1.00		
38	Design of Machine Elements-II	0MEPC310	A	2.89	1.91	1.00											
			B	2.67	2.00	1.00											
			C	2.60	2.00	1.00											
			D	2.89	1.91	1.00											
39	Mechatronics	0MEPC311	A	2.19	1.28			1.76	0.90		1.83	1.83	2.74				
			B	2.34	1.90			1.82	0.85		1.82	1.82	2.74				
			C	2.40	1.19			1.68	0.85		1.68	1.68	2.51				
			D	2.43	1.22			1.89	0.89		1.89	1.89	2.83				
40	Industrial Hydraulics and Pneumatics	0MEPC312	A	2.33	3.00	1.00					2.00		2.00				1.50
			B	2.33	3.00	1.00					2.00		2.00				1.50
			C	2.33	3.00	1.00					2.00		2.00				1.50
			D	2.33	3.00	1.00					2.00		2.00				1.50
41	Metrology and Quality Control	0MEPC313	A	2.61	0.98				0.96								
			B	2.63	0.98				1.00								
			C	2.61	0.98				1.00								
			D	2.36	0.83				0.97								




42	Professional Elective-II FEA	0MEPE314	A	2.70	2.66												
			B	2.70	2.66												
43	Professional Elective-II Advanced Manufactur	0MEPE315	C	2.18	0.92												
44	Professional Elective-II Computational Fluid I	0MEPE316	D	2.20	1.22												
45	ResearchMethodology-II	0MEPR317	A	2.61	1.00												
			B	2.67	1.00												
			C	2.73	1.00												
			D	2.73	1.00												
46	Design of Machine Elements-II Laboratory	0MEPC358	A	2.40	2.44	2.44		1.70				1.70	2.00				
			B	2.69	2.77	2.77		1.98				1.98	2.00				
			C	3.00	3.00	3.00		2.00				2.00	2.00				
			D	2.40	2.44	2.44		1.70				1.70	2.00				
47	Mechatronics Laboratory	0MEPC359	A	2.00				3.00		2.00	2.00	2.00	2.00				
			B	1.97				3.00		2.00	2.00	2.00	2.00				
			C	1.97				2.94		2.00	2.00	2.00	2.00				
			D	1.97				2.94		2.00	2.00	2.00	2.00				
48	Industrial Hydraulicsand PneumaticsLaborato	0MEPC360	A	2.67	2.00	1.00		2.00	2.00				1.00		1.00		
			B	2.67	2.00	1.00		2.00	2.00				1.00		1.00		
			C	2.67	2.00	1.00		2.00	2.00				1.00		1.00		
			D	2.67	2.00	1.00		1.87	2.00				0.94		1.00		
49	Professional Elective-II FEA Laboratory	0MEPE361	A	2.50	2.00			2.00			1.94		1.54		1.97		
			B	2.50	2.00			2.00			1.94		1.54		1.97		
50	Professional Elective-II AMT Lab	0MEPE362	C	2.29	0.97							2.00	2.00				
51	Professional Elective-II Computational Fluid I	0MEPE363	D	2.67	2.00						1.81		1.89				
52	Workshop Practice -VI	0MEPC364	A	3.00	2.00						2.00	2.67					
			B	3.00	2.00						2.00	2.67					
			C	3.00	2.00						2.00	2.67					
			D	3.00	2.00						2.00	2.67					
53	Mini Project-II	0MEPR365	A,B,C,D	1.75	1.75	2.00		2.00	2.00	2.00	1.55	2.33	2.50	2.33		1.50	1.50
54	Vocational Training	0MEPR366	A,B,C,D	2.76	1.76	1.78	1.78	1.76		1.80	1.80	1.79	1.79	1.79	1.80	1.76	0.88
1	Refrigeration and Air conditioning	0MEPC401	A	2.16	1.24				0.77	0.81							
			B	2.16	1.24				0.77	0.81							
			C	2.16	1.24				0.77	0.81							
			D	2.20	1.51				0.65	0.72							



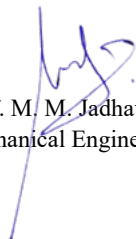
2	Refrigeration and Air conditioning Laboratory	0MEPC451	A	3.00	2.00						1.15	1.17	0.64		0.51		
			B	3.00	2.00						1.15	1.17	0.64		0.51		
			C	3.00	2.00						1.15	1.17	0.64		0.51		
			D	3.00	2.00						1.15	1.17	0.64		0.51		
3	Internal Combustion Engines	0MEPC402	A	2.68	2.00	1.00			0.76								
			B	2.68	2.00	1.00			0.76								
			C	2.68	2.00	1.00			0.76								
			D	2.68	2.00	1.00			0.76								
4	Internal Combustion Engines Laboratory	0MEPC452	A	3.00	2.00			0.21			1.45	2.00	0.21				
			B	3.00	2.00			0.21			1.45	2.00	0.21				
			C	2.93	2.00						2.00	2.00	2.00				
			D	2.93	2.00						2.00	2.00	2.00				
5	Mechanical System Design	0MEPE403	A	2.22	1.91	1.44	0.66				1.43	1.43	1.43				
			B	2.22	1.91	1.44	0.66				1.43	1.43	1.43				
6	Design of Thermal Systems and Optimization	0MEPE405	D	2.17	2.03	1.31	1.01										
7	Noise and Vibration	0MEPE406	A	2.58	2.67	2.00											
			B	2.58	2.67	2.00											
8	Noise and Vibration Laboratory	0MEPC453	A	3.00	2.00			2.00				1.60	1.70		1.82		
			B	3.00	2.00			2.00				1.60	1.70		1.82		
9	Non Destructive testing	0MEPE407	C	1.82	1.45						1.72	1.69	1.69				
10	Steam Engineering	0MEPC408	D	2.48	1.27												
81	Electric Vehicles	0EEOE407		2.26						1.66	1.70		1.80		1.66		
	Industrial Automation, PLC and SCADA	0EEOE406		1.80	1.08	1.00											
	Air Pollution and Control	0CVOE413		2.21	0.89				1.52	1.52	1.52		0.75				
	Research Methodology	0CVOE414		2.40	1.60	1.14											
	Database Essentials and Business Intelligence	0CSOE403		2.00	2.00												
	Hybrid Vehicle	0AUOE408		2.51						1.81	1.94		1.88				
	Introduction to Unmanned Aerial Vehicle	0AEOE406		2.23	2.32	1.71	1.80	0.90			1.80						
11	Steam Engineering Laboratory	0MEPE455	D	3.00	2.00						1.00	1.00	1.00		1.00		
13	Human values and professional ethics	0MEHS412	A								1.67				1.08		
			B								1.73				1.05		
			C								1.68				0.98		
			D								1.78				0.99		



14	Industrial Engineering	0MEPC413	A	2.24	1.26											1.25	
			B	2.24	1.26											1.25	
			C	2.14	1.22											1.24	
			D	2.06	1.19											1.23	
15	Smart Materials	0MEPC414	A	2.70	1.66					1.33	1.76	1.76					
			B	2.73	1.72					1.36	1.66	1.66					
			C	2.81	1.66					1.33	1.72	1.65					
			D	2.79	1.69					1.36	1.85	1.72					
16	Vehicle Dynamics	0MEPE415	A	1.95	1.67			1.43								1.40	
			B	1.95	1.67			1.43								1.40	
17	Vehicle Dynamics Lab	0MEPE457	A	3.00	2.75			3.00								2.00	
			B	3.00	2.75			3.00								2.00	
18	Solar Technology	0MEPE416	C	2.90	1.90			0.00		2.87	0.97	2.87					
			D	2.90	1.90			0.00		2.87	0.97	2.87					
19	Solar Technology Lab	0MEPE458	C	2.93	1.99				1.89								
			D	1.89	2.00				1.86								
20	Project I	0MEPR456	A,B,C,D	2.56	1.71	2.59	1.63	2.44	2.63	2.63	1.76	2.64	2.77	2.64	0.00	2.56	2.44
21	Project II	0MEPR459	A,B,C,D	2.60	2.17	1.77	1.77	1.77	2.54	2.54	1.66	2.48	2.70	2.56	3.00	0.00	2.54
AVEARGE				2.31	1.72	1.21	1.62	1.80	1.21	1.57	1.69	1.80	1.71	1.67	1.31	1.49	1.68


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