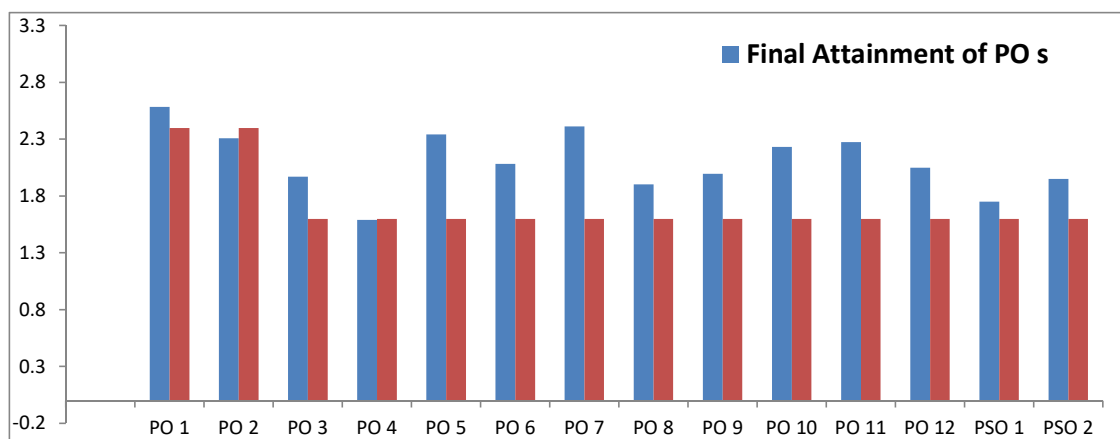


Annasaheb Dange College of Engineering and Technology, Ashta
Department of Mechanical Engineering
Final PO Attainment
Academic Batch 2017-18 to 2020-21

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	2.25	3.00	2.55	2.77	3.00	2.60	A
PO 2	1.69	2.92	2.18	2.74	3.00	2.29	NA
PO 3	1.22	2.83	1.87	2.41	2.00	1.98	A
PO 4	1.40	2.75	1.94		2.00	1.55	NA
PO 5	1.82	2.88	2.24	2.61	2.00	2.31	A
PO 6	1.20	2.96	1.90	2.53	2.00	2.03	A
PO 7	1.93	2.95	2.34	2.52	2.00	2.38	A
PO 8	1.69	1.25	1.51	2.04	2.00	1.62	A
PO 9	1.79	1.25	1.57	2.02	2.00	1.66	A
PO 10	1.72	2.81	2.16	2.57	2.00	2.24	A
PO 11	1.67	2.83	2.13	2.75	2.00	2.26	A
PO 12	1.28	2.88	1.92	2.65	2.00	2.07	A
PSO 1	1.65	2.14	1.85		2.00	1.75	A
PSO 2	1.55	2.63	1.98		2.00	1.95	A

A-Attained

NA- Not Attained



Prof. S. A. Mullya
NBA Co-ordinator



Prof. M. M. Jadhav
HOD, Mechanical Engineering

Annasaheb Dange College of Engineering and Technology, Ashta
Department of Mechanical Engineering
CO - PO Attainment
Academic Batch 2017-18 to 2020-21

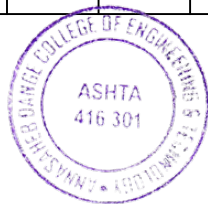
Sr. No.	COURSE	CODE	Div	Program Outcomes													
				PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
1	Applied Physics	0BSBS101		1.57	1.26												
2	Applied Maths-I	0BSBS102		1.64	0.65												
3	Basic Electrical	0BSBS103		1.47	1.48												
4	Basic Civil	0BSBS104		1.58	1.28												
5	Engineering Graphics	0BSBS105		1.77	1.36												
6	Professional Communication	0BSBS106									0.80		1.81				
7	Applied Maths-I Tut	0BSBS107		2.28	0.85												
8	Applied Chemistry	0BSBS108		1.83	1.85												
9	Basic Electronics Engg.	0BSBS109		1.28	0.63	0.61											
10	Engineering Mechanics	0BSBS110		2.17	1.45												
11	Basic Mechanical Engg.	0BSBS111		1.65	0.74												
12	Computer Programming	0BSBS112		1.73	1.73												
13	Applied Maths II	0BSBS113		1.66	0.94												
14	Applied Maths II Tut	0BSBS114		1.95	0.81												
15	Workshop Practice	0BSBS151		2.53	1.66												
16	Applied Physics Lab	0BSBS152		1.72	0.86			0.87			0.73	0.85	0.85				
17	Basic Electrical	0BSBS153		1.59	0.88							1.82	1.76		1.66		
18	Basic Civil lab	0BSBS154		1.76	1.76			1.62	1.60		1.49		1.66				
19	Engineering Graphics	0BSBS155		1.56	1.56						0.68		1.36				
20	Professional Communication	0BSBS156						1.61			1.19	1.57	2.17				
21	Basic Electronics Lab	0BSBS157		1.71	0.86	0.86					1.54	1.08	1.64				
22	Applied Chemistry	0BSBS158		1.65	0.83					0.86	0.81	0.73	0.81				
23	Engineering Mechanics	0BSBS159		2.65	1.77						2.00		2.00				
24	Basic Mechanical Engg.	0BSBS160		2.04	0.88						0.79		0.71				
25	Computer Programming	0BSBS161		1.86	1.86		2.50		1.60		1.60				1.60		
20	Applied Mathematics-III	0MEBS201	A	1.80	0.99												
			B	1.82	0.98												
			C	1.79	0.97												
			D	1.78	0.97												
21	Engineering Thermodynamics	0MEPC202	A	1.32	1.63				0.85								
			B	1.90	2.00				1.00								
			C	1.90	2.00				1.00								
			D	1.56	1.91				1.00								



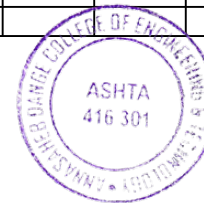
22	Fluid Mechanics	0MEPC203	A	1.94	1.67											
			B	1.92	1.69											
			C	2.10	1.93											
			D	1.95	1.80											
23	Manufacturing Processes and Machine Tools	0MEPC204	A	1.46				0.74								
			B	1.80				0.75								
			C	1.44				0.80								
			D	2.01				0.72								
24	Machine Drawing	0MEPC205	A	1.95	1.24			0.45								
			B	1.96	1.24			0.44								
			C	1.91	1.26			0.31								
			D	1.92	1.25			0.46								
25	Computer Programming Using C++	0MEES206	A	2.18	1.78											
			B	2.18	1.76											
			C	2.16	1.78											
			D	2.17	1.71											
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	1.50			0.95			1.30		1.30				
			B	1.50			0.95			1.30		1.30				
			C	0.95			1.04			1.30		0.25				
			D	1.50			0.95			1.30		1.30				
29	Computer Programming Using C++ Laboratory	0MEES253	A	2.20	2.16		2.45			1.33		1.66		0.66		
			B	2.09	2.13		2.45			1.66		1.66		0.66		
			C	2.20	2.13		2.45			1.30		1.66		0.66		
			D	2.20	2.11		2.45			1.30		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					2.00	2.00	2.00		2.00		
			C	2.98	2.00					2.00	2.00	2.00		2.00		
			D	2.98	2.00					2.00	2.00	2.00		2.00		
31	General Proficiency	0MEHS255	A				1.80			1.66	1.66	2.66				
			B				1.75			1.66	1.66	2.66				
			C				1.60			1.66	1.66	2.66				
			D				1.90			1.66	1.66	2.66				
32	Applied Numerical Methods	0MEES208	A	1.92	1.06			0.66								
			B	1.91	1.08			0.69								
			C	1.92	1.06			0.66								
			D	1.92	1.06			0.66								



33	Mechanics of Materials	0MEPC209	A	1.70	1.23				0.79							
			B	1.80	1.35				0.86							
			C	1.95	1.35				0.81							
			D	2.28	1.58				1.00							
34	Thermal Engineering	0MEPC210	A	1.27	0.76											
			B	1.51	0.90											
			C	1.50	0.87											
			D	1.56	0.90											
35	Hydraulic Machines	0MEPC211	A	1.60	1.09	0.74										
			B	1.40	1.02	0.78										
			C	1.66	1.05	0.76										
			D	1.60	1.09	0.78										
36	Kinematics of Machines	0MEPC212	A	1.66	1.21	0.93										
			B	1.98	1.45	0.84										
			C	1.96	1.44	0.84										
			D	2.13	1.58	1.00										
37	Materials Science and Metallurgy	0MEPC213	A	2.40					0.66							
			B	2.10					0.63							
			C	2.30					0.66							
			D	2.40					0.66							
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	1.71	1.71			
			B	3.00	3.00	2.00	2.00				3.00	1.71	1.71			
			C	3.00	3.00	2.00	2.00				2.57	1.71	1.71			
			D	3.00	3.00	2.00	2.00				2.57	1.71	1.71			
40	Kinematics of Machines Laboratory	0MEPC259	A	2.33	1.50						0.88	0.99	0.88			
			B	2.33	1.50						0.89	1.00	0.89			
			C	2.33	1.50						0.89	1.00	0.89			
			D	2.33	1.50						0.88	0.99	0.88			
41	Materials Science and Metallurgy Laboratory	0MEPC260	A	2.19	1.33						0.66	0.66	0.66			
			B	2.20	1.40						0.66	0.66	0.66			
			C	2.40	1.31						0.66	0.66	0.66			
			D	2.70	1.40						0.66	0.66	0.66			
42	Computer Aided Design Laboratory	0MEPC261	A	2.25	2.25			2.25			1.80		1.80		0.90	
			B	2.50	2.50			2.50			2.03		2.03		1.01	
			C	2.50	2.50			2.50			2.03		2.03		1.01	
			D	2.25	2.25			2.25			1.80		1.80		0.90	



43	Workshop Practice -IV	0MEPC262	A	2.80	1.70				1.66		1.66	2.33					
			B	2.75	1.70				1.66		1.66	2.33					
			C	2.66	1.70				1.66		1.66	2.33					
			D	2.89	1.70				1.66		1.66	2.33					
44	Design of Machine Elements-I	0MEPC301	A	1.82	0.97	0.58											
			B	1.82	0.97	0.58											
			C	1.85	1.11	0.62											
			D	1.82	0.97	0.58											
45	Heat and Mass Transfer	0MEPC302	A	1.82	1.47	0.73											
			B	2.40	1.79	0.90											
			C	2.40	1.79	0.90											
			D	2.40	1.79	0.90											
46	Dynamics of Machines	0MEPC303	A	2.64	1.55	0.66											
			B	2.74	1.60	0.65											
			C	2.64	1.55	0.66											
			D	2.19	1.33	0.89											
47	Control Engineering	0MEPC304	A	2.20	1.57				0.77								
			B	2.26	1.60				0.77								
			C	1.90	1.33				0.55								
			D	1.68	1.17				0.56								
48	Manufacturing Engineering	0MEPC305	A	2.07	1.46	0.83											
			B	2.40	1.79	0.90											
			C	2.07	1.46	0.83											
			D	2.07	1.46	0.83											
49	Advanced Mechanics of Solids (PE-I)	0MEPE306	A	2.10	1.44	0.61											
			B	2.04	1.41	0.66											
50	Advaced Foundry Technology (PE-I)	0MEPE307	C	2.19	1.87												
51	Fluid Dynamics (PE-I)	0MEPE308	D	1.64	0.83				0.77								
52	Research Methodology-I	0MEPR309	A	2.22	1.54												
			B	2.25	1.66												
			C	2.60	1.34												
			D	2.50	1.78												
53	Heat and Mass Transfer Laboratory	0MEPC351	A	3.00	2.00						2.00	2.00	2.00				
			B	3.00	2.00						2.00	2.00	2.00				
			C	3.00	2.00						2.00	2.00	2.00				
			D	3.00	2.00						2.00	2.00	2.00				
54	Dynamics of Machines Laboratory	0MEPC352	A	2.50	1.75		1.00	1.00					1.00				
			B	2.50	1.75		1.00	1.00					1.00				
			C	2.50	1.75		1.00	1.00					1.00				
			D	2.49	1.74		1.00	1.00					0.88				



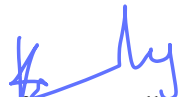
55	Manufacturing Engineering Laboratory	0MEPC353	A	2.67	2.00	1.00			1.00				2.00				
			B	2.67	2.00	1.00			1.00				2.00				
			C	2.67	2.00	1.00			1.00				2.00				
			D	2.67	2.00	1.00			1.00				2.00				
56	Computer Aided Manufacturing Laboratory	0MEPC354	A	2.50	2.00			2.00			1.00		2.00		1.00		
			B	2.50	2.00			2.00			1.00		2.00		1.00		
			C	2.50	2.00			2.00			1.00		2.00		1.00		
			D	2.50	2.00			2.00			1.00		2.00		1.00		
57	Workshop Practice -V	0MEPC355	A	2.42	1.93						1.93	2.89	1.93	0.96			
			B	2.42	1.93						1.93	2.89	1.93	0.96			
			C	2.42	1.93						1.93	2.89	1.93	0.96			
			D	2.42	1.93						1.93	2.89	1.93	0.96			
58	Mini Project-I	0MEPC356	ABCD	1.75	1.17	2.00	0.00	0.00	2.00	1.75	1.33	2.00	1.75	2.00	0.00	1.75	1.75
59	Design of Machine Elements-II	0MEPC310	A	2.66	1.66	0.66											
			B	2.45	1.54	0.66											
			C	2.68	1.54	0.72											
			D	2.78	1.78	0.74											
60	Mechatronics	0MEPC311	A	1.86				2.72		2.00	2.00	2.00	2.00				
			B	1.81				2.66		2.00	2.00	2.00	2.00				
			C	1.76				2.59		1.96	1.96	1.96	1.96				
			D	2.00				3.00		2.00	2.00	2.00	2.00				
61	Industrial Hydraulics and Pneumatics	0MEPC312	A	2.32	3.00	1.00					2.00		2.00				1.50
			B	2.32	3.00	1.00					2.00		2.00				1.50
			C	2.32	3.00	1.00					2.00		2.00				1.50
			D	2.32	3.00	1.00					2.00		2.00				1.50
62	Metrology and Quality Control	0MEPC313	A	2.51	0.94				1.00								
			B	2.51	0.94				1.00								
			C	2.51	0.94				1.00								
			D	2.51	0.94				1.00								
63	Finite Element Analysis (PE-II)	0MEPE314	A	2.59	1.76												
			B	2.42	1.67												
64	Advanced Manufacturing Technology (PE-II)	0MEPE315	C	2.17	0.90												
65	CFD (PE-II)	0MEPE316	D	1.84	0.74				0.74								
66	Research Methodology-II	0MEPR317	A	2.34	0.86												
			B	2.34	0.86												
			C	2.36	0.86												
			D	2.34	0.86												
67	Mechanical Measurement	0MEPC357	A	1.81	1.81			1.00				1.50	2.00		1.00		
			B	1.80	1.80			1.00				1.50	2.00		1.00		
			C	1.97	1.97			0.95				1.43	1.90		0.95		
			D	1.78	1.78			1.00				1.50	2.00		1.00		



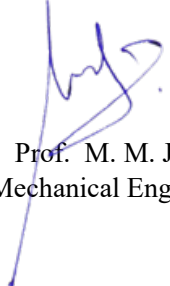
68	Design of Machine Elements-II Laboratory	0MEPC358	A	2.47	2.46	2.46		1.57				1.57	1.59				
			B	2.47	2.46	2.46		1.57				1.57	1.59				
			C	3.00	3.00	3.00		2.00				2.00	2.00				
			D	3.00	3.00	3.00		2.00				2.00	2.00				
69	Mechatronics Laboratory	0MEPC359	A	1.86				2.72		2.00	2.00	2.00	2.00				
			B	1.81				2.66		2.00	2.00	2.00	2.00				
			C	1.76				2.59		1.96	1.96	1.96	1.96				
			D	2.00				3.00		2.00	2.00	2.00	2.00				
70	Industrial Hydraulics and Pneumatics Laboratory	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		2.00	2.00				1.00		1.00		
71	FEA (P E-II) Lab.	0MEPE361	A	2.50	2.00			1.15					0.63		0.50		
			B	1.95	1.53			1.53					1.58		1.58		
72	AMT(P E-II) Lab.	0MEPE362	C	2.50	1.50							2.00	2.00				
73	CFD (P E-II) Lab.	0MEPE363	D	2.67	2.00						2.00		2.00				
74	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					
75	Mini Project-II	0MEPR365	ABCD	1.75	1.75	2.00	0.00	2.00	2.00	2.00	1.55	2.33	2.50	2.33	0.00	1.50	1.50
76	Vocational Training	0MEPR366	ABCD	2.88	1.88	1.91	1.91	1.88		1.88	1.88	1.86	1.86	1.86	1.88	1.88	0.94
77	Refrigeration and Air conditioning	0MEPC401	A	2.49	1.73												
			B	2.41	1.65												
			C	2.46	1.67												
			D	2.49	1.73												
78	Refrigeration and Air conditioning Laboratory	0MEPC451	A	2.50	2.00						2.00	2.00	2.00				
			B	2.44	1.96						2.00	1.79	1.79				
			C	2.29	1.83						2.00	1.82	1.82				
			D	2.50	2.00						2.00	2.00	2.00				
79	Internal Combustion Engines	0MEPC402	A	2.83	2.00	1.00			0.76								
			B	2.83	2.00	1.00			0.76								
			C	2.83	2.00	1.00			0.76								
			D	2.76	1.89	0.94			0.81								
80	Internal Combustion Engines Laboratory	0MEPC452	A	3.00	2.00			2.00					2.00				
			B	3.00	2.00			2.00					2.00				
			C	2.96	2.00			2.00					2.00				
			D	2.97	2.00			2.00					2.00				
81	Mechanical System Design	0MEPE403	A	2.84	2.63	1.96	1.00								1.00		
			B	2.86	2.66	2.00	1.00								1.00		



82	Design of Thermal Systems and Optimiza	OMEPE405	D	2.17	2.03	1.31	1.01										
83	Noise and Vibration	OMEPE406	A	2.38	2.35	1.69											
			B	2.37	2.36	1.69											
84	Noise and Vibration Laboratory	OMEPC453	A	3.00	2.00			2.00				1.74	1.74		1.77		
			B	3.00	2.00			2.00				1.83	1.86		1.83		
85	Non Destructive testing	OMEPE407	C	2.80	1.30						1.65	1.66	1.66				
86	Advanced Welding Technology	OMEPE404	C	3.00	3.00				1.00								
87	Steam Engineering	OMEPE408	D	2.80	1.56						1.60	1.66	1.66				
88	Steam Engineering Laboratory	OMEPE455	D	2.80	1.39						1.65	1.66	1.66				
89	Industrial Management and Operation Research	OMEEO409	A	2.30	2.95				0.95								
			B	2.35	2.99				0.99								
			C	2.35	2.99				0.99								
90	Human values and professional ethics	OMEHS412	A								1.64				1.02		
			B								1.58				0.99		
			C								1.52				0.96		
			D								1.46				0.93		
91	Project-1	OMEPR456	A,B,C,D	2.33	1.55	2.50	1.64	2.46	2.41	2.41	1.64	2.46	2.69	2.46		2.33	2.46
92	Industrial Engineering	OMEPC413	A	2.47	1.48				1.00								
			B	2.46	1.88				0.99								
			C	2.47	1.48				1.00								
			D	2.91	2.00	2.00			0.98								
93	Smart Materials	OMEPC414	A	2.70	1.66						1.33	1.66	1.66				
94	Vehicle Dynamic	OMEPE415	A	2.45	1.50						1.60	1.36	1.66				
95	Vehicle Dynamic Laboratory	OMEPE457	A	2.53	1.30						1.65	1.66	1.36				
96	Solar Technology	OMEPE416	C	2.91	2.00	2.00											
97	Solar Technology Lab	OMEPE458	C	2.86	1.97					1.82							
98	Disaster management	0CVOE417		1.60	0.75			0.82	2.68	1.70			0.83			0.81	
	Air Pollution and Control	0CVOE413		2.09	0.88				1.83	1.83	1.83		0.91				
	Database Essentials and Business Intelligence	0CSOE403		3.00	2.00												1.00
	Electric Vehicles	0EEOE407		2.16						2.00	1.88		1.88				
	UnManned Aerial Vehicle	0AEOE406		2.53	2.51	1.81	2.00	1.00			1.81						0.91
	Introduction to Experimental Aerodynamics	0AEOE404		2.45	1.76	1.76	1.74				1.56				0.78		
	Electric and Hybrid Vehicles	0AUOE408		2.51						1.81	1.94		1.88				
99	Project-II	OMEPR459	A,B,C,D	2.58	2.18	1.78	1.78	1.78	2.53	2.53	1.66	2.49	2.74	2.52	3.00		2.53
			Average	2.25	1.69	1.22	1.40	1.82	1.20	1.93	1.69	1.79	1.72	1.67	1.28	1.65	1.55


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