

## MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Kalitheerthalkuppain, Madagadipet, Puducherry - 605 107

# DEPARTMENT OF MECHANICAL ENGINEERING CO ATTAINMENT TABLE( 2013-17 BATCH)

N	NO. OF NO. OF ATTAIN TARGET ATTAINMENT  STUDENTS STUDENTS PASS % ATTAIN TARGET ATTAINMENT													
s. NO	COURSE CODE	COURSE NAME	NO. OF STUDENTS APPEARED	NO. OF STUDENTS PASSED	PASS %		TARGET LEVEL	ATTAINMENT STATUS						
1	C101	Mathematics – I	59	46	77.97	3	3	ATTAINED						
2	C102	Physics	60	60	100.00	3	3	ATTAINED						
3	C103	Chemistry	60	53	88.33	3	3	ATTAINED						
4	C104	Basic Electrical and Electronics	60	52	86.67	3	3	ATTAINED						
5	C105	Engineering Thermodynamics	59	53	89.83	3	3	ATTAINED						
6	C106	Computer Programming	60	47	78.33	3	3	ATTAINED						
7	C107 (P)	Computer Programming Lab	59	59	100.00	3	3	ATTAINED						
8	C108 (P)	Engineering Graphics	58	54	93.10	3	3	ATTAINED						
9	C109 (P)	Basic Electrical & Electronics Lab	59	54	91.53	3	3	ATTAINED						
10	C110	Mathematics – II	57	47	82.46	3	3	ATTAINED						
11	C111	Material Science	57	53	92.98	3	3	ATTAINED						
12	C112	Environmental Science	57	56	98.25	3	3	ATTAINED						
13	C113	Basic Civil and Mechanical Engineering	57	52	91.23	3	3	ATTAINED						
14	C114	Engineering Mechanics	57	46	80.70	3	3	ATTAINED						
15	C115	Communicative English	57	55	96.49	3	3	ATTAINED						
16	C116(P)	Physics lab	57	57	100.00	3	3	ATTAINED						
17	C117(P)	Chemistry lab	57	57	100.00	3	3	ATTAINED						
18	C118 (P)	Workshop Practice	56	56	100.00	3	3	ATTAINED						
19	C119 (P)	NSS / NCC *	57	57	100.00	3	3	ATTAINED						

20	C201	Mathematics – III	69	60	86.96	3	3	ATTAINED
21	C202	Mechanics of solids	69	43	62.32	2	3	NOT ATTAINED
22	C203	Mechanics of Fluids	69	47	68.12	3	3	ATTAINED
23	C204	Applied Thermodynamics	69	54	78.26	3	3	ATTAINED
24	C205	Manufacturing process	69	64	92.75	3	3	ATTAINED
25	C206	Electrical and Electronics Engineering	69	25	36.23	0	3	NOT ATTAINED
26	C207(P)	Material Testing and Metallurgy Lab	69	68	98.55	3	3	ATTAINED
27	C208(P)	Manufacturing process lab-1	69	68	98.55	3	3	ATTAINED
28	C209(P)	Electrical and Electronics lab	69	65	94.20	3	3	ATTAINED
29	C210	Mathematics – IV	69	54	78.26	3	3	ATTAINED
30	C211	Engineering Metallurgy	69	57	82.61	3	3	ATTAINED
31	C212	Fluid Machinery	69	57	82.61	3	3	ATTAINED
32	C213	Kinematics of Machinery	69	56	81.16	3	3	ATTAINED
33	C214	Machine Drawing	68	63	92.65	3	3	ATTAINED
34	C215	Machining Processes	68	63	92.65	3	3	ATTAINED
35	C216(P)	Fluid Mechanics and Machinery Lab	68	65	95.59	3	3	ATTAINED
36	C217(P)	Manufacturing Processes Lab - II	69	69	100.00	3	3	ATTAINED
37	C218(P)	Computer Aided Machine Drawing Lab	69	66	95.65	3	3	ATTAINED
38	C219(P)	Physical Education	69	69	100.00	3	3	ATTAINED
39	C301	Dynamics of Machinery	68	48	70.59	3	3	ATTAINED
40	C302	Design of	69	65	94.20	3	3	ATTAINED

		Machine Elements						
41	C303	Metrology and Quality Control	69	63	91.30	3	3	ATTAINED
42	C304	Heat and Mass Transfer	69	56	81.16	3	3	ATTAINED
43	C305	Mechanical Measurements	69	67	97.10	3	3	ATTAINED
44	C306	Industrial Casting Technology	69	66	95.65	3	3	ATTAINED
45	C307(P)	Manufacturing Process Lab - III	68	68	100.00	3	3	ATTAINED
46	C308(P)	Mechanical Measurement and	68	66	97.06	3	3	ATTAINED
47	C309(P)	Computational Methods Lab	68	68	100.00	3	3	ATTAINED
48	C310(P)	General Proficiency - I	69	69	100.00	3	3	ATTAINED
49	C311	Operations Research	69	58	84.06	3	3	ATTAINED
50	C312	Design of Transmission Systems	67	61	91.04	3	3	ATTAINED
51	C313	Thermal Engineering	69	52	75.36	3	3	ATTAINED
52	C314	Computer Integrated Manufacturing	69	66	95.65	3	3	ATTAINED
53	C315	Control System Engineering	69	67	97.10	3	3	ATTAINED
54	C316	Automobile Engineering	69	62	89.86	3	3	ATTAINED
55	C317(P)	Thermal Engineering Lab - I	69	66	95.65	3	3	ATTAINED
56	C318(P)	Dynamics of Machine Lab	69	67	97.10	3	3	ATTAINED
57	C319(P)	Computational Fluid Dynamics Lab	69	67	97.10	3	3	ATTAINED
58	C320(P)	General Proficiency - II	69	69	100.00	3	3	ATTAINED
59	C401	Computer Aided Design	69	64	92.75	3	3	ATTAINED

60	C402	Industrial Engineering and management	69	63	91.30	3	3	ATTAINED
61	C403	Refrigeration, Air Conditioning and Cryogenic engineering	69	66	95.65	3	3	ATTAINED
62	C404	Metal Forming Processes	69	68	98.55	3	3	ATTAINED
63	C405 (P)	Thermal Engineering Lab - II	66	65	98.48	3	3	ATTAINED
64	C406 (P)	Computer Aided Engineering Lab	68	68	100.00	3	3	ATTAINED
65	C407(P)	Comprehensive Viva - Voce	69	69	100.00	3	3	ATTAINED
66	C408(P)	Industrial Visit/Training Report	69	69	100.00	3	3	ATTAINED
67	C409(P)	Project Work(Phase I)	69	69	100.00	3	3	ATTAINED
68	C410	Power Plant Engineering	69	66	95.65	3	3	ATTAINED
69	C411	Professional Ethics And Indian Constitution	69	69	100.00	3	3	ATTAINED
70	C412	Composite Materials	69	67	97.10	3	3	ATTAINED
71	C413	Maintenance And Safety Engineering	69	68	98.55	3	3	ATTAINED
72	C414	Project Work (Phase- II)	69	69	100.00	3	3	ATTAINED
73	C415	Seminar	69	69	100.00	3	3	ATTAINED



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# DEPARTMENT OF MECHANICAL ENGINEERING ATTAINMENT OF PROGRAM OUTCOMES (2013-17 BATCH)

COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	Mathematics – I	3	3	3	3	-	-	7-	-	-	-	-	3
C102	Physics	3	3	3	3	-	3	-	-	-	-	-	3
C103	Chemistry	3	3	3	-	-	3	3	-	-	-	-	3
C104	Basic Electrical and Electronics	3	3	3	-	-	3	3	-	-	-	3	3
C105	Engineering Thermodynamics	3	3	3	3	3	-	-	-	-	3	3	3
C106	Computer Programming	3	3	3	3	3	3	3	3	3	3	3	3
C107 (P)	Computer Programming Lab	3	3	3	3	3	3	-	-	3	-	3	3
C108 (P)	Engineering Graphics	3	3	3	3	3	3	3	3	3	3	3	3
C109 (P)	Basic Electrical & Electronics Lab	3	3	-	-	-	3	3	-	3	3	3	3
C110	Mathematics – II	3	3	3	3	-	-	3	-	-	-	-	3
C111	Material Science	3	3	3	.=	-	3	3	-		-	-	3
C112	Environmental Science	3	-	-	-	-	3	3	-	-	-	3	3
C113	Basic Civil and Mechanical Engineering	3	3	3	3	3	3	3	3	3	3	3	3
C114	Engineering Mechanics	3	3	3	3	3	3	3	3	3	3	3	3
C115	Communicative English	-	-	-	-	-	=	-	-	3	3	-	3
C116(P)	Physics lab	3	-	-	3	-	3	3	-	3	3	-	3

C117(P)	Chemistry lab	3	-	-	2		3	3	-	3	3	-	3
C118 (P)	Workshop Practice	3	3	-	3	3	3	3	3	3	3	3	3
C119 (P)	NSS / NCC *	3	3	3	3	3	3	3	3	3	3	3	3
C201	Mathematics – III	3	3	3	3	-	-	3	_	-	-	-	3
C202	Mechanics of solids	2	2	2	2	-1	2	2	2	-	2	-	2
C203	Mechanics of Fluids	3	3	3	3	3	3	3	-	-	3	3	3
C204	Applied Thermodynamics	3	3	3	3	3	3	-	-	-	3	3	3
C205	Manufacturing process	3	-	3	_	-	3	3	3	3	3	-	3
C206	Electrical and Electronics Engineering	0	0	0	0	0	0	0	0	0	0	0	0
C207(P)	Material Testing and Metallurgy Lab	3	3	3	3	-	3	-	-	3	3	3	3
C208(P)	Manufacturing process lab-1	-	-	-	3	-	3	3	3	3	3	3	3
C209(P)	Electrical and Electronics lab	3	3	3	3	3	-	3	3	3	3	3	3
C210	Mathematics – IV	3	3	3	3	-	-	3	-	-	-	3	3
C211	Engineering Metallurgy	3	3	3	3	-	3	-	-	-	-	-	-
C212	Fluid Machinery	3	3	3	3	3	3	3	-	-	3	3	3
C213	Kinematics of Machinery	3	3	3	3	-	3	3	3	-	3		3
C214	Machine Drawing	3	3	3	3	3	3	3	3	3	3	-	3
C215	Machining Processes	3	3	-	-	-	3	3	3	-	3	3	3
C216(P)	Fluid Mechanics and Machinery Lab	3	3	3	3	3	3	3	3	3	3	3	3

C217(P)	Manufacturing Processes Lab - II	-	-	-	3	-	3	3	3	3	3	3	3
C218(P)	Computer Aided Machine Drawing Lab	3	3	3	3	3	3	3	3	3	3	3	3
C219(P)	Physical Education	-	-	-	-	-	3	-	3	3	3	-	3
C301	Dynamics of Machinery	3	3	3	3	-	3	3	3	-	3	-	3
C302	Design of Machine Elements	3	3	3	3	3	3	3	3	3	3	-	3
C303	Metrology and Quality Control	3	3	3	3	3	3	3	3	-	3	3	3
C304	Heat and Mass Transfer	3	3	3	3	3	3	3	3	3	3	3	3
C305	Mechanical Measurements	3	3	3	3	3	3	3	3	3	. 3	3	3
C306	Industrial Casting Technology	3	3	3	3	3	3	3	3	3	3	3	3
C307(P)	Manufacturing Process Lab - III	-	-	-	3	3	3	3	3	3	3	3	3
C308(P)	Mechanical Measurement and	3	3	3	3	3	3	3	3	3	3	3	3
C309(P)	Computational Methods Lab	3	3	3	3	3	3	3	3	3	3	3	3
C310(P)	General Proficiency - I	-	-	-	-	-	-	-	-	3	3		3
C311	Operations Research	3	3	3	3	-	3	3	-	-	3	3	3
C312	Design of Transmission Systems	3	3	3	3	3	3	3	3	3	3	3	3
C313	Thermal Engineering	3	3	3	3	3	3	3	3	3	3	3	3
C314	Computer Integrated Manufacturing	3	3	3	3	3	3	3	3	3	3	3	3

C315	Control System Engineering	3	3	3	3	3	3	3	-	=	-	3	3
C316	Automobile Engineering	3	3	3	3	3	3	3	3	3	3	3	3
C317(P)	Thermal Engineering Lab - I	3	3	3	3	3	3	3	3	3	3	3	3
C318(P)	Dynamics of Machine Lab	3	3	3	3	3	3	3	3	3	3	3	3
C319(P)	Computational Fluid Dynamics Lab	3	3	3	3	3	_	-		3	3	3	3
C320(P)	General Proficiency - II	-	-	-	-	-	-	-	3	3	3	-	3
C401	Computer Aided Design	3	3	3	3	3	-	-	3	3	3	-	3
C402	Industrial Engineering and management	3	3	3	3	3	3	3	-	-	3	3	3
C403	Refrigeration, Air Conditioning and Cryogenic engineering	3	3	3	3	3	3	3	3	3	3	3	3
C404	Metal Forming Processes	3	3	-	3	-	3	3	3	-	3	3	3
C405 (P)	Thermal Engineering Lab - II	3	3	3	3	3	3	3	3	3	3	3	3
C406 (P)	Computer Aided Engineering Lab	3	3	3	3	3	3	3	3	3	3	3	3
C407(P)	Comprehensive Viva - Voce	3	3	-	-	3	3	-	3	3	3	-	3
C408(P)	Industrial Visit/Training Report	3	-	-	3	3	3	-	3	3	3	3	3
C409(P)	Project Work(Phase I)	3	3	3	3	3	3	3	3	3	3	3	3
C410	Power Plant Engineering	3	3	3	3	3	3	3	3	3	3	3	3
C411	Professional Ethics And Indian Constitution	3	-			-	3	3	3	3	3	3	3

A	VG OF POs	2.94	2.94	2.93	2.93	2.93	2.93	2.98	2.93	2.91	2.94	2.93	2.94
C415	Seminar	3	3	-	3	3	3	3	- ************************************	3	3	3	3
C414	Project Work (Phase- II)	3	3	3	3	3	3	3	3	3	3	3	3
C413	Maintenance And Safety Engineering	3	3	3	3	3	3	3	3	3	3	3	3
C412	Composite Materials	3	3	3	3	3	3	3	3	3	3	3	3

#### DIRECT ASSESSMENT OF POS

	DIRECT ASSESSMENT OF POS														
PO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12			
AVG OF DIRECT ASSESSMENT	2.94	2.93	2.93	2.93	2.93	2.98	2.93	2.91	2.94	2.93	2.94	2.94			
WEIGHTAGE OF 80% OF DIRECT PO	2.35	2.34	2.34	2.34	2.34	2.38	2.34	2.33	2.35	2.34	2.35	2.35			

### INDIRECT ASSESSMENT OF POS

INDIRECT ASSESSMENT													
SURVEYs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
COURSE EXIT SURVEY	2.78	2.68	2.71	2.62	2.7	2.71	2.68	2.69	2.72	2.69	2.68	2.67	
ALUMNI SURVEY	2.83	2.66	2.71	2.73	2.78	2.71	2.88	2.71	2.88	2.76	2.73	2.78	
EMPLOYER SURVEY	2.8	2.2	2.00	2.5	2.4	2.6	2.4	2.4	2.8	2.4	2.2	2.8	
AVG OF 3 SURVEYS	2.80	2.51	2.47	2.62	2.63	2.67	2.65	2.60	2.80	2.62	2.54	2.75	
WEIGHTAGE OF 20% OF IN DIRECT PO	0.56	0.50	0.49	0.52	0.53	0.53	0.53	0.52	0.56	0.52	0.51	0.55	



#### OVERALL ATTAINMENT OF POS

	OVERALL ATTAINMENT OF POS													
PO'S	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
(DIRECT 80%)	2.35	2.34	2.34	2.34	2.34	2.38	2.34	2.33	2.35	2.34	2.35	2.35		
(INDIRECT 20%)	0.56	0.50	0.49	0.52	0.53	0.53	0.53	0.52	0.56	0.52	0.51	0.55		
AVERAGE	2.91	2.84	2.83	2.86	2.87	2.91	2.87	2.85	2.91	2.86	2.86	2.9		
TARGET	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50		



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#### DEPARTMENT OF MECHANICAL ENGINEERING ATTAINMENT OF PROGRAM SPECIFIC OUTCOMES (2013-17 BATCH)

COURSE CODE	COURSE NAME	PSO1	PSO2
C101	Mathematics – I	-	3
C102	Physics	3	3
C103	Chemistry	3	-
C104	Basic Electrical and Electronics	3	3
C105	Engineering Thermodynamics	3	3
C106	Computer Programming	3	3
C107 (P)	Computer Programming Lab	3	3
C108 (P)	Engineering Graphics	3	3
C109 (P)	Basic Electrical & Electronics Lab	-	-
C110	Mathematics – II	-	3
C111	Material Science	3	3
C112	Environmental Science	3	3
C113	Basic Mechanical Engineering	3	3
C114	Engineering Mechanics	3	3
C115	Communicative English	3	3
C116(P)	Physics lab	3	3
C117(P)	Chemistry lab	-	-
C118 (P)	Workshop Practice	3	3
C119 (P)	NSS/NCC*	-	-

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C201	Mathematics – III	-	3
C202	Mechanics of solids	2	2
C203	Mechanics of Fluids	3	3
C204	Applied Thermodynamics	3	3
C205	Manufacturing process	3	3
C206	Electrical and Electronics Engineering	0	-
C207(P)	Material Testing and Metallurgy Lab	3	3
C208(P)	Manufacturing process lab-1	3	-
C209(P)	Electrical and Electronics lab	3	-
C210	Mathematics – IV	-	3
C211	Engineering Metallurgy	3	3
C212	Fluid Machinery	3	3
C213	Kinematics of Machinery	3	3
C214	Machine Drawing	3	3
C215	Machining Processes	3	3
C216(P)	Fluid Mechanics and Machinery Lab	3	3
C217(P)	Manufacturing Processes Lab - II	3	-
C218(P)	Computer Aided Machine Drawing Lab	3	3
C219(P)	Physical Education	-	-
C301	Dynamics of Machinery	3	3
C302	Design of Machine Elements	3	3
C303	Metrology and Quality Control	3	3

C304	Heat and Mass Transfer	3	3
C305	Mechanical Measurements	3	3
C306	Industrial Casting Technology	3	3
C307(P)	Manufacturing Process Lab - III	3	3
C308(P)	Mechanical Measurement and	3	3
C309(P)	Computational Methods Lab	-	3
C310(P)	General Proficiency - I	-	-
C311	Operations Research	3	3
C312	Design of Transmission Systems	3	3
C313	Thermal Engineering	3	3
C314	Computer Integrated Manufacturing	3	3
C315	Control System Engineering	3	3
C316	Automobile Engineering	3	3
C317(P)	Thermal Engineering Lab - I	3	3
C318(P)	Dynamics of Machine Lab	3	3
C319(P)	Computational Fluid Dynamics Lab	-	3
C320(P)	General Proficiency - II	-	-
C401	Computer Aided Design	-	3
C402	Industrial Engineering and management	3	3
C403	Refrigeration, Air Conditioning and Cryogenic engineering	3	3

	Average of PSO's	2.93	2.98
C415(P)	Seminar	3	-
C414(P)	Project Work (Phase- II)	3	3
C413	Maintenance And Safety Engineering	3	3
C412	Composite Materials	3	3
C411	Professional Ethics And Indian Constitution	3	-
C410	Power Plant Engineering	3	3
C409(P)	Project Work(Phase I)	3	3
C408(P)	Industrial Visit/Training Report	3	3
C407(P)	Comprehensive Viva - Voce	3	3
C406 (P)	Computer Aided Engineering Lab	-	3
C405 (P)	Thermal Engineering Lab - II	3	3
C404	Metal Forming Processes	3	3

# DIRECT ASSESSMENT OF PSOs

DIRECT ASSESSMENT OF PSO		
PSO'S	PSO1	PS02
AVG OF DIRECT ASSESSMENT	2.93	2.98
(WEIGHTAGE OF 80%)	2.34	2.39

#### INDIRECT ASSESSMENT OF PSOS

INDIRECT ASSESSMENT OF PSO		
SURVEYs	PSO1	PSO2
COURSE EXIT SURVEY	2.63	2.71
ALUMNI SURVEY	2.76	2.73
EMPLOYER SURVEY	2.60	2.20
AVG OF SURVEYS	2.66	2.55
(WEIGHTAGE OF 20%)	0.53	0.51

#### OVERALL ATTAINMENT OF PSOs

OVERALL ATTAINMENT OF PSO		
PSO'S	PSO1	PSO2
(DIRECT 80%)	2.34	2.39
(INDIRECT 20%)	0.53	0.51
OVERALL	2.87	2.90
TARGET	2.50	2.50



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