


**MAR EPHRAEM COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CO-PO/PSO -ATTAINMENT SHEET**

BATCH	2016-2020
COURSE NAME	Power Plant Engineering
COURSE CODE	ME6701
COURSE	C401
SEMESTER	VII
COURSE FACULTY	ARUN S

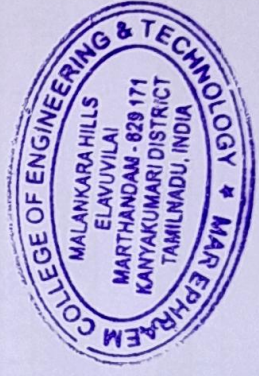
  
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**P-of. Dr. A. Lenin Fred, M.E., Ph.D.**  
**PRINCIPAL**

**MAR EPHRAEM COLLEGE**  
**OF ENGINEERING & TECHNOLOGY**  
 MALANKARA HILLS, ELAVUVILAI, KANYAKUMARI - 629 171  
 KANYAKUMARI DISTRICT, TAMILNADU, INDIA.





# CO ATTAINMENT

Course Code	ME6701
Course Name	Power Plant Engineering
Staff handling	ARUN S

ATTAINMENT THROUGH INTERNAL ASSESSMENT (CAE & MODEL)						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Attainment %	75.81	75.00	75.81	76.61	79.03	49.19
Level	3	3	3	3	3	1
AVG	<b>2.67</b>					

ATTAINMENT THROUGH UNIVERSITY EXAMINATION						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
AVG	<b>3</b>					

Direct Assessment Attainment Level : (Internal)*40%+(University)*60%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	2.2
AVG	<b>2.87</b>					

Indirect Assessment Attainment Level(Course Exit Survey )						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
AVG	<b>3</b>					

Overall Attainment Level : Direct Assessment 80%, Indirect Assessment 20%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	2.36
AVG	<b>2.89</b>					

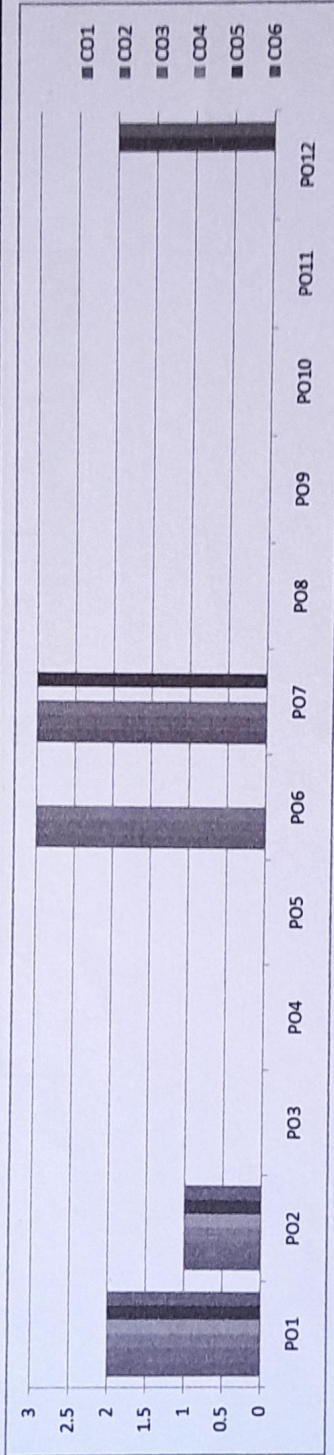
COURSE OUTCOMES ATTAINMENT RESULT						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
ATTAINMENT RESULT	Y	Y	Y	Y	Y	Y



# PO ATTAINMENT - DIRECT

## Power Plant Engineering

CO ATTAINED	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3	C01	2	1	0	0	0	3	3	0	0	0	0	0
3	C02	2	1	0	0	0	3	3	0	0	0	0	0
3	C03	2	1	0	0	0	3	3	0	0	0	0	0
3	C04	2	1	0	0	0	0	0	0	0	0	0	0
3	C05	2	1	0	0	0	0	3	0	0	0	0	2
2:36	C06	2	1	0	0	0	0	0	0	0	0	0	2
		<b>1.93</b>	<b>0.96</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>3.00</b>	<b>3.00</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>1.79</b>





**PSO ATTAINMENT-DIRECT**

**Power Plant Engineering**

Power Plant Engineering CO ATTAINED	CO	K3		
		PSO1	PSO2	PSO3
3	C01	2	0	0
3	C02	2	0	0
3	C03	2	0	0
3	C04	2	0	0
3	C05	0	0	0
2.36	C06	2	0	0
		1.91	#DIV/0!	#DIV/0!



**MAR EPHRAEM COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CO-PO/PSO -ATTAINMENT SHEET**

BATCH	2017-2021
COURSE NAME	Mechatronics
COURSE CODE	ME8791
COURSE	C402
SEMESTER	VII
COURSE FACULTY	JUDE FELIX A

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FACULTY SIGNATURE

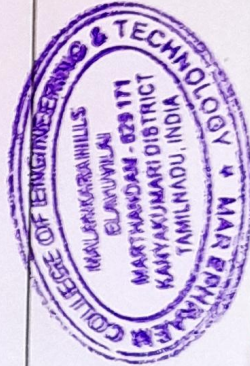
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 P.O. ELAVUWILAI, MARTHAJODAI - 629 171  
 KANNIYAKUMARI DISTRICT, TAMILNADU, INDIA





# CO ATTAINMENT

Course Code	ME8791		
Course Name	Mechatronics		
Staff handling	JUDE FELIX A		

ATTAINMENT THROUGH INTERNAL ASSESSMENT (CAE & MODEL)						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Attainment %	75.21	76.86	76.03	68.60	70.25	58.68
Level	3	3	3	3	3	2
AVG	<b>2.83</b>					

ATTAINMENT THROUGH UNIVERSITY EXAMINATION						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
AVG	<b>3</b>					

Direct Assessment Attainment Level : (Internal)*40%+(University)*60%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	2.6
AVG	<b>2.93</b>					

Indirect Assessment Attainment Level(Course Exit Survey )						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
AVG	<b>3</b>					

Overall Attainment Level : Direct Assessment 80%, Indirect Assessment 20%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2.68</b>
AVG	<b>2.95</b>					

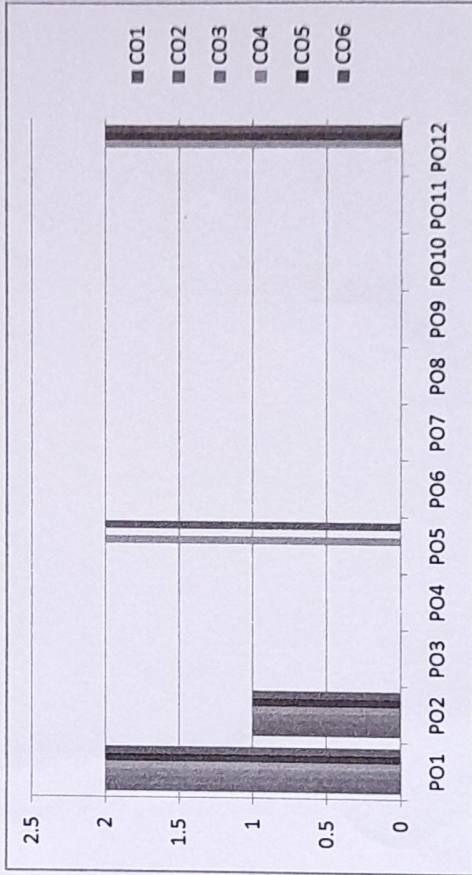
COURSE OUTCOMES ATTAINMENT RESULT						
COURSE OUTCOMES	CO1	CO2	CO3	CO4	CO5	CO6
ATTAINMENT RESULT	Y	Y	Y	Y	Y	Y



# PO ATTAINMENT - DIRECT

## Mechatronics

CO ATTAINED	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3	CO1	2	1	0	0	0	0	0	0	0	0	0	0
3	CO2	2	1	0	0	0	0	0	0	0	0	0	0
3	CO3	2	1	0	0	0	0	0	0	0	0	0	0
3	CO4	2	1	0	0	2	0	0	0	0	0	0	2
3	CO5	2	1	0	0	0	0	0	0	0	0	0	2
2.68	CO6	2	1	0	0	2	0	0	0	0	0	0	2
		6	6	0	0	2	0	0	0	0	0	0	3
		<b>1.96</b>	<b>0.98</b>	<b>####</b>	<b>####</b>	<b>1.89</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>#DIV/0!</b>	<b>####</b>	<b>1.93</b>





**PSO ATTAINMENT-DIRECT**

**Mechatronics**

Mechatronics CO ATTAINED	CO	K3		K4		K3	
		PSO1	PSO2	PSO2	PSO4	PSO4	PSO4
3	CO1	2	2	2	0	0	0
3	CO2	2	2	2	0	0	0
3	CO3	2	2	2	0	0	0
3	CO4	2	2	2	0	0	0
3	CO5	2	2	2	0	0	0
2.68	CO6	2	2	2	0	0	0
		6	6	6	6	6	0
		1.96	1.96	1.96	1.96	#DIV/0!	0

1.5.24

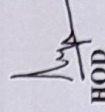


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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CO-PO/PSO -ATTAINMENT SHEET**

BATCH	2017-2021
COURSE NAME	Dynamics of Machines
COURSE CODE	ME8594
COURSE	C305
SEMESTER	V
COURSE FACULTY	N E GODWIN PITHALIS



FACULTY SIGNATURE



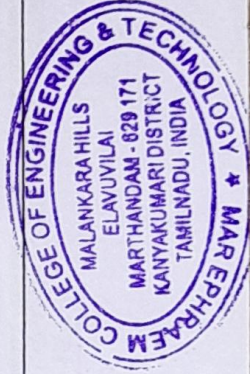
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KANYAKUMARI DISTRICT, TAMILNADU, INDIA





# CO ATTAINMENT

Course Code	ME8594					
Course Name	Dynamics of Machines					
Staff handling	N E GODWIN PITHALIS					

ATTAINMENT THROUGH INTERNAL ASSESSMENT (CAE & MODEL)						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Attainment %	75.21	75.21	68.60	68.60	79.34	76.03
Level	3	3	3	3	3	3
AVG	<b>3.00</b>					

ATTAINMENT THROUGH UNIVERSITY EXAMINATION						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	1	1	1	1	1	1
AVG	<b>1</b>					

Direct Assessment Attainment Level : (Internal)*40%+(University)*60%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	1.8	1.8	1.8	1.8	1.8	1.8
AVG	<b>1.80</b>					

Indirect Assessment Attainment Level(Course Exit Survey )						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
AVG	<b>3</b>					

Overall Attainment Level : Direct Assessment 80%, Indirect Assessment 20%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	<b>2.04</b>	<b>2.04</b>	<b>2.04</b>	<b>2.04</b>	<b>2.04</b>	<b>2.04</b>
AVG	<b>2.04</b>					

COURSE OUTCOMES						
ATTAINMENT RESULT	CO1	CO2	CO3	CO4	CO5	CO6
Y	Y	Y	Y	Y	Y	Y







**PSO ATTAINMENT-DIRECT**

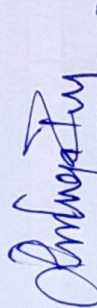
**Dynamics of Machines**

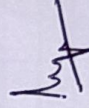
Dynamics of Machines CO ATTAINED	CO	K3		K4		K3
		PSO1	0	PSO2	2	PSO3
2.04	CO1	0	0	2	2	0
2.04	CO2	0	0	2	2	0
2.04	CO3	0	0	2	2	0
2.04	CO4	0	0	2	2	0
2.04	CO5	0	0	2	2	0
2.04	CO6	0	0	2	2	0
			0	6	6	0
		#DIV/0!		1.36		#DIV/0!



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DEPARTMENT OF MECHANICAL ENGINEERING  
CO-PO/PSO -ATTAINMENT SHEET

BATCH	2017-2021
COURSE NAME	FINITE ELEMENT ANALYSIS
COURSE CODE	ME8692
COURSE	C313
SEMESTER	VI
COURSE FACULTY	I.JACKSON THANGA ROY

  
FACULTY SIGNATURE

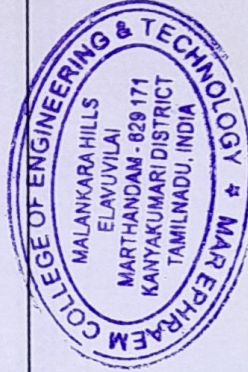
  
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KANYAKUMARI DISTRICT, TAMILNADU, INDIA





# CO ATTAINMENT

Course Code	ME8692				
Course Name	FINITE ELEMENT ANALYSIS				
Staff handling	I.JACKSON THANGA ROY				

ATTAINMENT THROUGH INTERNAL ASSESSMENT (CAE & MODEL)						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Attainment %	72.73	73.55	69.42	70.25	81.82	76.03
Level	3	3	3	3	3	3
<b>AVG</b>	<b>3.00</b>					3

ATTAINMENT THROUGH UNIVERSITY EXAMINATION						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
<b>AVG</b>	<b>3</b>					3

Direct Assessment Attainment Level : (Internal)*40%+(University)*60%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
<b>AVG</b>	<b>3.00</b>					3

Indirect Assessment Attainment Level(Course Exit Survey )						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
<b>AVG</b>	<b>3</b>					3

Overall Attainment Level : Direct Assessment 80%, Indirect Assessment 20%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
<b>AVG</b>	<b>3.00</b>					3

COURSE OUTCOMES						
ATTAINMENT RESULT	CO1	CO2	CO3	CO4	CO5	CO6
ATTAINMENT RESULT	Y	Y	Y	Y	Y	Y







MAR EPHRAEM COLLEGE OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING  
CO-PO/PSO - ATTAINMENT SHEET

BATCH	2018-2022
COURSE NAME	Process Planning and Cost Estimation
COURSE CODE	ME8793
COURSE	
SEMESTER	VII
COURSE FACULTY	VIJAYAKUMAR S



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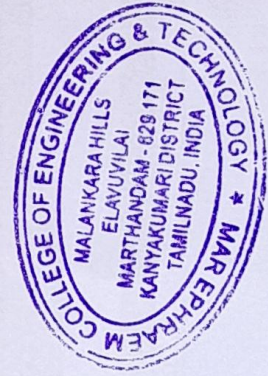
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KANYAKUMARI DISTRICT, TAMILNADU, INDIA.





# CO ATTAINMENT

Course Code		ME8793					
Course Name		Process Planning and Cost Estimation					
Staff handling		VJAYAKUMAR S					
<b>ATTAINMENT THROUGH INTERNAL ASSESSMENT (CAE &amp; MODEL)</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Attainment %	80.00	66.67	62.22	54.44	66.67	44.44	
Level	3	3	3	2	3	1	
AVG	<b>2.50</b>						
<b>ATTAINMENT THROUGH UNIVERSITY EXAMINATION</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Level	3	3	3	3	3	3	
AVG	<b>3</b>						
<b>Direct Assessment Attainment Level : (Internal)*40%+(University)*60%</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Level	3	3	3	2.6	3	2.2	
AVG	<b>2.80</b>						
<b>Indirect Assessment Attainment Level(Course Exit Survey)</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Level	3	3	3	3	3	3	
AVG	<b>3</b>						
<b>Overall Attainment Level : Direct Assessment 80%, Indirect Assessment 20%</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Level	3	3	3	2.68	3	2.36	
AVG	<b>2.84</b>						
<b>COURSE OUTCOMES ATTAINMENT RESULT</b>							
COURSE OUTCOMES	CO1	CO2	CO3	CO4	CO5	CO6	
ATTAINMENT RESULT	Y	Y	Y	Y	Y	Y	Y







**PSO ATTAINMENT-DIRECT**


**Process Planning and Cost Estimation**

Process Planning and Cost Est	CO	K3			K4			K3		
		CO ATTAINED	CO	PSO1	PSO2	PSO3	PSO1	PSO2	PSO3	
3	CO1		0	0	0	3				
3	CO2		0	0	0	2				
3	CO3		0	0	0	3				
2.68	CO4		0	0	0	3				
3	CO5		0	0	0	3				
2.36	CO6		0	0	0	3				
				0	0	6				
			#DIV/0!	#DIV/0!	#DIV/0!	2.67				



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CO-PO/PSO -ATTAINMENT SHEET

BATCH	2018-2022
COURSE NAME	Design of Machine Elements
COURSE CODE	ME8593
COURSE	C315
SEMESTER	V
COURSE FACULTY	BESCHI SELVAN S L

  
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KANYAKUMARI DISTRICT, TAMILNADU, INDIA





# CO ATTAINMENT

Course Code	ME8593					
Course Name	Design of Machine Elements					
Staff handling	BESCHI SELVAN S L					
<b>ATTAINMENT THROUGH INTERNAL ASSESSMENT (CAE &amp; MODEL)</b>						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Attainment %	80.00	66.67	62.22	54.44	66.67	44.44
Level	3	3	3	2	3	1
AVG	<b>2.50</b>					
<b>ATTAINMENT THROUGH UNIVERSITY EXAMINATION</b>						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
AVG	<b>3</b>					
<b>Direct Assessment Attainment Level : (Internal)*40%+(University)*60%</b>						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	2.6	3	2.2
AVG	<b>2.80</b>					
<b>Indirect Assessment Attainment Level(Course Exit Survey)</b>						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
AVG	<b>3</b>					
<b>Overall Attainment Level : Direct Assessment 80%, Indirect Assessment 20%</b>						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	2.68	3	2.36
AVG	<b>2.84</b>					
<b>COURSE OUTCOMES</b>						
ATTAINMENT RESULT	CO1	CO2	CO3	CO4	CO5	CO6
	Y	Y	Y	Y	Y	Y







**PSO ATTAINMENT-DIRECT**

**Design of Machine Elements**

sign of Machine Eleme CO ATTAINED	CO	K3			K4		
		PSO1	PSO2	PSO3	PSO1	PSO2	PSO3
3	CO1	0	3	0			
3	CO2	0	2	0			
3	CO3	0	3	0			
2.68	CO4	0	3	0			
3	CO5	0	3	0			
2.36	CO6	0	3	0			
		0	6	0			
		#DIV/0!	2.67	#DIV/0!			



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BATCH	2018-2022
COURSE NAME	Thermal Engineering - I
COURSE CODE	ME8493
COURSE	C215
SEMESTER	IV
COURSE FACULTY	C K JOSEPH BENCIER



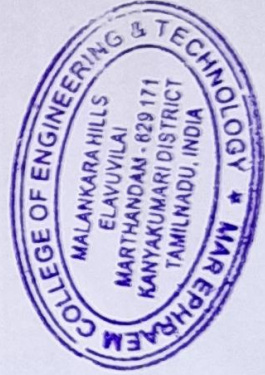
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KANYAKUMARI DISTRICT, TAMILNADU, INDIA.





# CO ATTAINMENT

Course Code		ME8493					
Course Name		Thermal Engineering - I					
Staff handling		C K JOSEPH BENCIER					
<b>ATTAINMENT THROUGH INTERNAL ASSESSMENT (CAE &amp; MODEL)</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Attainment %	80.00	66.67	62.22	54.44	66.67	44.44	
Level	3	3	3	2	3	1	
AVG	<b>2.50</b>						
<b>ATTAINMENT THROUGH UNIVERSITY EXAMINATION</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Level	3	3	3	3	3	3	
AVG	<b>3</b>						
<b>Direct Assessment Attainment Level : (Internal)*40%+(University)*60%</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Level	3	3	3	2.6	3	2.2	
AVG	<b>2.80</b>						
<b>Indirect Assessment Attainment Level(Course Exit Survey)</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Level	3	3	3	3	3	3	
AVG	<b>3</b>						
<b>Overall Attainment Level : Direct Assessment 80%, Indirect Assessment 20%</b>							
Cos	CO1	CO2	CO3	CO4	CO5	CO6	
Level	3	3	3	2.68	3	2.36	
AVG	<b>2.84</b>						
<b>COURSE OUTCOMES ATTAINMENT RESULT</b>							
COURSE OUTCOMES	CO1	CO2	CO3	CO4	CO5	CO6	
ATTAINMENT RESULT	Y	Y	Y	Y	Y	Y	







**PSO ATTAINMENT-DIRECT**

**Thermal Engineering - I**

Thermal Engineering - CO ATTAINED	CO	K3			K4			#DIV/0!
		PSO1	PSO2	PSO3	PSO1	PSO2	PSO3	
3	CO1	3	0	0	3	0	0	
3	CO2	2	0	0	2	0	0	
3	CO3	3	0	0	3	0	0	
2.68	CO4	3	0	0	3	0	0	
3	CO5	3	0	0	3	0	0	
2.36	CO6	3	0	0	3	0	0	
		6	0	0	6	0	0	
		2.67	#DIV/0!	#DIV/0!	2.67	#DIV/0!	#DIV/0!	



MAR EPHRAEM COLLEGE OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING  
CO-PO/PSO -ATTAINMENT SHEET

BATCH	2018-2022
COURSE NAME	Manufacturing Technology- II
COURSE CODE	ME8451
COURSE	C212
SEMESTER	IV
COURSE FACULTY	AKHIL W V



FACULTY SIGNATURE



HOD



PRINCIPAL

Prof. Dr. A. Lenin Fred, M.E., Ph.D.  
PRINCIPAL

MAR EPHRAEM COLLEGE  
OF ENGINEERING & TECHNOLOGY  
MALANKARA HILLS, ELAVUVILAI, MARTHANDAM - 629 171  
KANYAKUMARI DISTRICT, TAMILNADU, INDIA.





# CO ATTAINMENT

Course Code	ME8451		
Course Name	Manufacturing Technology- II		
Staff handling	AKHIL W V		

ATTAINMENT THROUGH INTERNAL ASSESSMENT (CAE & MODEL)						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Attainment %	66.67	61.11	51.11	51.11	52.22	34.44
Level	3	3	2	2	2	1
AVG	<b>2.17</b>					

ATTAINMENT THROUGH UNIVERSITY EXAMINATION						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
AVG	<b>3</b>					

Direct Assessment Attainment Level : (Internal)*40%+(University)*60%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	2.6	2.6	2.6	2.2
AVG	<b>2.67</b>					

Indirect Assessment Attainment Level(Course Exit Survey)						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	3	3	3	3	3	3
AVG	<b>3</b>					

Overall Attainment Level : Direct Assessment 80%, Indirect Assessment 20%						
Cos	CO1	CO2	CO3	CO4	CO5	CO6
Level	<b>3</b>	<b>3</b>	<b>2.68</b>	<b>2.68</b>	<b>2.68</b>	<b>2.36</b>
AVG	<b>2.73</b>					

COURSE OUTCOMES ATTAINMENT RESULT						
COURSE OUTCOMES	CO1	CO2	CO3	CO4	CO5	CO6
ATTAINMENT RESULT	Y	Y	Y	Y	Y	Y



