

SEE Attainment			Question-CO Articulation Matrix				
	% Students Attempted	% Attainment	CO1	CO2	CO3	CO4	CO5
Q1a	45	28.34	1				
Q1b	46	52.46	1				
Q2a	59	41.78	1				
Q2b	59	26.59	1				
Q3a	62	42.17		1			
Q3b	61	39.51		1			
Q4a	42	64.29		1			
Q4b	39	36.54		1			
Q5a	63	40.48			1		
Q5b	63	27.39			1		
Q6a	30	5					
Q6b	25	3.04					
Q7a	32	25.59				1	
Q7b	32	37.21				1	
Q8a	66	63.64				1	
Q8b	68	28.89				1	
Q9a	68	38.89					0.5
Q9b	80	60.38					0.75
Q10a	16	28.58					1
Q10b	14	22.23					0.75
SEE Attainment			37.30	45.63	33.94	38.84	27.50
Final COs Attainment (60% of SEE + 25% of Descriptive + 10% of Quiz + 5% of Assignment)							
Assessment Tool			CO1	CO2	CO3	CO4	CO5
MID Attainment (%)			72.60	66.51	28.37	30.99	16.70
Assignment Attainment (%)			87.97	87.97	87.60	87.22	87.22
Quiz Attainment (%)			57.58	57.58	35.61	13.64	13.64
SEE Attainment (%)			37.30	45.63	33.94	38.84	27.50
COs Attainment (%)			54.50	58.80	38.80	40.70	29.20
CO Target (%)			65.00	60.00	65.00	60.00	60.00

Action Plan for Not attained Course Outcomes

20ME04	Thermodynamics	Target	2021-22	A/NA	
CO1	Classify the various thermodynamic systems, properties and processes with examples and temperature scales of a system [Remembering Level L1].	70	54.5	NA	Provide the PPT material
CO2	Differentiate open and closed system and built up the heat and work transfer relations of thermal systems [Understanding Level L2].	65	58.8	NA	Prepare the problems separately for closed and opens systems
CO3	Apply the laws of thermodynamics to find the thermodynamic properties and parameters of various thermal systems [Applying Level L3].	60	38.8	NA	Provide the tutorial problems early and follow it up in the class hours
CO4	Understand the properties of pure substance and gases to compute the non-reactive mixture parameters [Understanding Level L2].	65	40.7	NA	Assignment question on non-reactive mixtures to be given
CO5	Analyse the performance parameters of various thermodynamic cycles [Analysing Level – L4].	60	29.2	NA	Provide the video lecture resources for this content.

Course Coordinator	Module Coordinator	HoD Signature

LABORATORY ATTAINMENT SHEET							
CIE Attainment				Question-CO Articulation Matrix			
	Expt. No	% Students Attempted	%Attainment	CO1	CO2	CO3	CO4
Day to Day Work	1	100	76.07	1			
	2	100	78.64	1			
	3	100	78.64	1			
	4	100	77.78		1		
	5	100	57.27		1		
	6	100	76.73		1		
	7	100	59.83			1	
	8	100	58.98			1	
	9	100	60.69				1
	10	100	76.93				1
CIE	1	6	57.15	1			
	2	7	75	1			
	3	14	68.75	1			
	4	9	90.91		1		
	5	11	76.93		1		
	6	10	83.34		1		
	7	13	80			1	
	8	8	77.78			1	
	9	9	72.73				1
	10	5	100				1
CIE Attainment				72.38	77.16	69.15	77.59

Semester End Examination (SEE)							
	Expt. No	% Students Attempted	%Attainment	CO1	CO2	CO3	CO4
SEE	1	15	72.23	1			
	2	11	69.24	1			
	3	10	58.34	1			
	4	9	60		1		
	5	12	57.15		1		
	6	9	60		1		
	7	6	71.43			1	
	8	9	54.55			1	
	9	9	81.82				1
	10	9	81.82				1
SEE Attainment				66.61	59.05	62.99	81.82

Final COs Attainment (60% of SEE + 40% of CIE)				
Assessment Tool	CO1	CO2	CO3	CO4
CIE Attainment (%)	72.38	77.16	69.15	77.59
SEE Attainment (%)	66.61	59.05	62.99	81.82
Final CO Attainment (%)	69	66	65	78
Target (%)	70	70	70	70

20ME62	Heat Transfer Lab	Target	2023-24	Action taken report in 2024-25
CO1	Estimate the thermal conductivity of different materials and powders. (Applying - L3)	70	69	Discuss the contents in the class before going to the laboratory
CO2	Estimate the value of heat transfer coefficient in free and forced convection. (Applying - L3)	70	66	Prepare the video contents related to those experiments to improve CO2
CO3	Validate the Stefan Boltzman constant and estimate emissivity of grey body. (Applying - L3)	65	65	Attained
CO4	Compare the parallel and counter flow heat exchanger performance characteristics. (Analysing - L4).	70	75	Attained

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