SJB INSTITUTE OF TECHNOLOGY
BENGALURU 560060
Department of Mechanical Engineering

Course Details

Subjet Title :	**BASIC THERMODYNAMICS**		
Subjet Code :	**18ME33**	Academic Year :	**2021-22**
Semester :	**3**	Section :	**A**
Core / Elective :	**Core**	Type :	**Theory**

Scheme of Teaching & Marks

Contact Hours/ week :	**5**	Lecture :	3	Tutorials :	2
Max. IA Marks:	**40**	Max. Exam Marks:	**60**	Total Marks:	**100**
Max. IA Marks: (40)	**Assignment Marks**		**10**	Test Marks	**30**

Pass Marks in the Course

Min. IA Marks (%) :	**60**	Min. Exam. Marks (%):	**35**	Total Marks (%):	**40**
Min. IA Marks:	**19**	Min. Exam Marks:	**21**	Total Marks:	**40**

Threshold Values for Attainment Calculation

Attainment Level :	3	(%)	2	(%)	1	(%)	Total Students
IA :	> =	**70**	> =	**60**	> =	**50**	
Ex :	> =	**70**	> =	**60**	> =	**50**	**12**
Overall :	CIE	**60**	SEE	**40**	CES	**0**	

Course Coordinator

Name :	**Naveena Kumar R R**
Designation :	**Assistant Professor**
email ID :	naveenakrr@sjbit.edu.in
Specilisation :	**Thermal power Engineering**

List of Course out comes (CO's)

No. of CO's
5

CO-1	Understand the fundamental concepts of basic thermodynamics.
CO-2	Evaluate the work and heat interaction across the boundary of thermodynamics systems. Also to apply the first law of thermodynamics to closed and open systems.
CO-3	Apply the knowledge of second law of thermodynamics to reversible heat engine, heat pump. Also to evaluate the change in entropy, reversibility and irreversibility.
CO-4	Interpret the behavior of pure substances and its applications in practical problems.
CO-5	Discuss the differences between ideal and real gases and evaluate thermodynamic properties of ideal and real gas mixtures using various relations

Course Instructor Report :

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Subject Name:	BASIC THERMODYNAMICS				
Subject code	18ME33	Semester	3	Section	A
Direct Assessment :	CIE, SEE			Max. Marks	100
Faculty name:	Naveena Kumar R R			Academic Year	2021-22

CO Internals Attainment Calculation

Course Outcomes	1	2	3	4	5	6
Course Outcome Target	50	50	50	50	50	50
Total Students	12	12	12	12	12	12
Students Above Target	12	10	12	12	11	0
CO Assesment (%)	100	83	100	100	92	0
Course Attainment Level	3	3	3	3	3	0

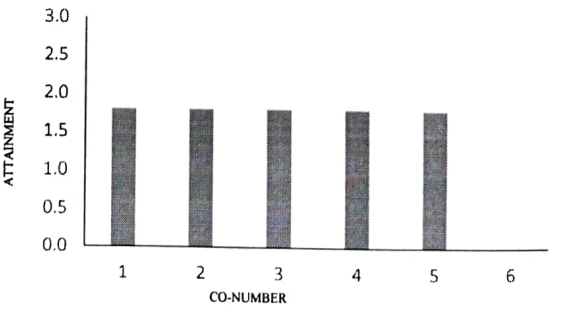
CO Exam Attainment Calculation

Students Above Target	2	1	0	
CO Assesment (%)	17	8	0	
CO Attainment Level	0	0	0	
IA TARGET %	50	60	70	
>=50%	LEVEL 1			
>=60%	LEVEL 2			
>=70%	LEVEL 3			

EXAM TARGET	
>=50%	30
>=60%	36
>=70%	42

CO Attainment		CIE			SEE			CES			Total		
Sl	CO-No	Total	Studnts	ATMNT	Total	Studnts	ATMNT	Total	Studnts	ATMNT	CIE-60	SEE-40	CES-0
1	CO1	12	12	3	12	0	0				1.8		
2	CO2	12	10	3	12	0	0				1.8		
3	CO3	12	12	3	12	0	0				1.8		
4	CO4	12	12	3	12	0	0				1.8		
5	CO5	12	11	3	12	0	0				1.8		

CO-PO Mapping Table

PO	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2										
CO2	3	2										
CO3	3	2										
CO4	3	2										
CO5	3	2										
PO - Weight and Attainment												
Total	**3**	**2**										
Attainment	**1.8**	**1.8**										

CO-NO	PSO's Mapping			
	1	2	3	4
CO1	2			
CO2	2			
CO3	2			
CO4	2			
CO5	2			
PSO-Weight & Attainment				
Total	2			
Attainment	**1.8**