SESSION:	WINTER 2023
BRANCH:	ELECTRICAL ENGINEERING
SEMESTER:	3RD-SEC-B
SUBJECT:	ELEMENTS OF MECHANICAL ENGG. (TH -3)
NAME OF THE FACULTY:	KANHU MALLIK

SL NO.	MONTH	CHAPT. NO.	DATE	TOPICS TO BE COVERED	NO. OF ACADEMIC DAYS AVAILABLE FOR THE SUBJECT	% COVERED
1	AUGUST	1	4.8.23	1 . 1 State Unit of Heat and work, 1st law of thermodynamics.	16	29%
			5.8.23	1 . 2 State Laws of perfect gases		
			8.8.23	1 . 2 State Laws of perfect gases		
			9.8.23	1 . 2 State Laws of perfect gases		
			11.8.23	1 . 3 Determine relationship of specific heat of gases at constantvolume and constant pressure.		
			12.8.23	PROBLEM		
			16.8.23	PROBLEM		
			18.8.23	PROBLEM		
		2	19.8.23	2 . 1 Use steam table for solution of simple problem		
			21.8.23	2 . 1 Use steam table for solution of simple problem		
			22.8.23	2 . 1 Use steam table for solution of simple problem		
			23.8.23	2 . 1 Use steam table for solution of simple problem		
			25.8.23	2 . 2 Explain total heat of wet, dry and super heated steam		
		3	26.8.23	3 . 1 State types of Boilers		
			28.8.23	3 . 1 State types of Boilers		
			29.8.23	3 . 2 Describe Cochran		
2	SEPT.	3	1.9.23	, Babcock Wilcox boiler	18	33%
			2.9.23	, Babcock Wilcox boiler		
			4.9.23	3 . 3 Describe Mountings		
			5.9.23	3 . 3 Describe Mountings		
			8.9.23	3 . 3 Describe Mountings		
			9.9.23	3 . 3 Describe Mountings		
			11.9.23	3 . 3 Describe Mountings		
			12.9.23	3 . 3 Describe Mountings		
			13.9.23	accessories		
			15.9.23	accessories		
			16.9.23	accessories		
			22.9.23	4.1 Explain the principle of Simple steam engine		
			23.9.23	4.1 Explain the principle of Simple steam engine		

			25.9.23	4.2 Draw Indicator diagram		
		4	26.9.23	4.3 Calculate Mean effective pressure, IHP and BHP		
			27.9.23	and mechanical efficiency		
			29.9.23	PROBLEM		
			30.9.23	PROBLEM		
3	OCT.	4	3.10.23	PROBLEM	9	16%
		5	4.10.23	STEAM TURBINES: 5.1 State Types		
			6.10.23	5.2 Differentiate between impulse and reaction Turbine		
		6	7.10.23	6.1 Explain the function of condenser		
			9.10.23	6.2 State their types		
			10.10.23	6.2 State their types		
			11.10.23	6.2 State their types		
		7	13.10.23	7.1 Explain working of two stroke and 4 stroke petrol and Diesel engines.		
			31.10.23	7.2 Differentiate between them		
4	NOV.	8	1.11.23	8.1 Describe properties of fluid	12	22%
			3.11.23	8.1 Describe properties of fluid		
			4.11.23	8.2 Determine pressure at a point, pressure measuring Instruments		
			6.11.23	8.2 Determine pressure at a point, pressure measuring Instruments		
		9	7.11.23	9.1 Deduce equation of continuity of flow		
			8.11.23	9.2 Explain energy of flowing liquid 9.3 State and explain Bernoulli's theorem		
			10.11.23	9.3 State and explain Bernoulli's theorem		
			13.11.23	REVISION		
			14.11.23	REVISION		
			15.11.23	REVISION		
			17.11.23	REVISION		
			18.11.23	REVISION		

BRIEF SUMMARY OF THE PLAN

SL.NO.	MONTH	UNIT/CHAPTER TO BE COVERED	% COVERAGE
1	AUGUST	CHAPTER- 1 , 2 & 3	29%
2	SEPTEMBER	CHAPTER- 3 & 4	33%
3	OCTOBER	CHAPTER- 4 , 5 , 6 & 7	16%
4	NOVEMBER	CHAPTER- 8 & 9	22%

signature of faculty   signature of HOD 3/8/23   signature of principal
.3/8/23