

SESSION:		WINTER 2023				
BRANCH:		ELECTRICAL ENGINEERING				
SEMESTER:		3RD-SEC-A				
SUBJECT:		ELEMENTS OF MECHANICAL ENGG. (TH -3)				
NAME OF THE FACULTY:			CHANDRAKANTA PATHI			
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.	18	33%
			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		
		2	10.8.23	1 . 3 Determine relationship of specific heat of gases at constant volume and constant pressure.		
			11.8.23	PROBLEM		
			12.8.23	PROBLEM		
			16.8.23	PROBLEM		
			17.8.23	2 . 1 Use steam table for solution of simple problem		
			18.8.23	2 . 1 Use steam table for solution of simple problem		
			19.8.23	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 . 2 Explain total heat of wet, dry and super heated steam		
			24.8.23	3 . 1 State types of Boilers		
			25.8.23	3 . 1 State types of Boilers		
26.8.23	3 . 2 Describe Cochran					
29.8.23	, Babcock Wilcox boiler					
31.8.23	, Babcock Wilcox boiler					
2	SEPTEMBER	2	1.9.23	3 . 3 Describe Mountings	18	31%
			2.9.23	3 . 3 Describe Mountings		
			5.9.23	3 . 3 Describe Mountings		
			7.9.23	3 . 3 Describe Mountings		
			8.9.23	3 . 3 Describe Mountings		
			9.9.23	3 . 3 Describe Mountings		
			12.9.23	accessories		
		13.9.23	accessories			
		3	14.9.23	accessories		
			15.9.23	4.1 Explain the principle of Simple steam engine		

			21.9.23	4.1 Explain the principle of Simple steam engine		
			22.9.23	4.2 Draw Indicator diagram		
			23.9.23	4.3 Calculate Mean effective pressure, IHP and BHP		
			26.9.23	and mechanical efficiency		
			27.9.23	PROBLEM		
			28.9.23	PROBLEM		
			29.9.23	PROBLEM		
			30.9.23	STEAM TURBINES: 5.1 State Types		
3	OCTOBER	3	3.10.23	5.2 Differentiate between impulse and reaction Turbine	10	17%
			4.10.23	6.1 Explain the function of condenser		
			5.10.23	6.2 State their types		
			6.10.23	6.2 State their types		
		4	7.10.23	6.2 State their types		
			10.10.23	7.1 Explain working of two stroke and 4 stroke petrol and Diesel engines.		
			11.10.23	7.2 Differentiate between them		
			12.10.23	8.1 Describe properties of fluid		
			13.10.23	8.1 Describe properties of fluid		
			31.10.23	8.2 Determine pressure at a point, pressure measuring Instruments		
4	NOVEMBER	4	1.11.23	8.2 Determine pressure at a point, pressure measuring Instruments	13	22%
			2.11.23	9.1 Deduce equation of continuity of flow		
		5	3.11.23	PROBLEM		
			4.11.23	PROBLEM		
			7.11.23	9.2 Explain energy of flowing liquid 9.3 State and explain Bernoulli's theorem		
			8.11.23	9.3 State and explain Bernoulli's theorem		
			9.11.23	9.3 State and explain Bernoulli's theorem		
			10.11.23	9.3 State and explain Bernoulli's theorem		
			14.11.23	REVISION		
			15.11.23	REVISION		
			16.11.23	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	CH-1, CH-2	31%
2	SEPTEMBER	CH-2, CH-3	31%
3	OCTOBER	CH-3, CH-4	17%
4	NOVEMBER	CH-4, CH-5	22%

signature of faculty

G.M.H.
3/8/23

signature of HOD

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3/8/23

signature of principal

[Signature]
3/8/23