LESSON PLAN SUMMER-2022

SUBJECT- THERMAL ENGG-II SEM-4th BRANCH- MECHANICAL ENGG.

SL NO	DATE	CHAPTER	TOPIC NAME	NO OF PERIODS
1	15.03.22	Performance of I.C engine CHAP-01	Introduction to syallbus. Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency	1
2	19.03.22		specific fuel consumption,brake thermal efficiency, overall efficiency Mean effective pressure	1
3	19.03.22		Define air-fuel ratio & calorific value of fuel	1
4	21.03.22		problems to determine efficiencies & specific fuel consumption.	1
5	22.03.22	Air Compressor CHAP-2	Explain functions of compressor & industrial use of compressor air	1
6	26.03.22		Classify air compressor & principle of operation	2
7	28.03.22		Describe the parts and working principle of reciprocating Air compressor	1
8	29.03.22		Explain the terminology of reciprocating compressor such as bore, stroke, pressure ratio free air delivered &Volumetric efficiency	1
9	02.04.22		Derive the work done of single stage compressor with and without clearance.	2
10	04.03.22	Properties of Steam CHAP-3	Difference between gas & vapours,Formation of steam	1
11	05.04.22		Representation on P-V, T-S, H-S, & T-H diagram	1
12	09.04.22		Definition & Properties of Steam,Use of steam table	2
13	11.04.22		Use of steam table & mollier chart for finding unknown properties	1
14	12.04.22		Non flow & flow process of vapour	1
15	16.04.22		P-V, T-S & H-S, diagram	2
16	18.04.22		Determine the changes in properties & solve simple numerical	1
17	19.02.22	Steam Generator CHAP-4	Classification & types of Boiler	1
18	23.04.22		Important terms for Boiler	2
19	25.04.22		Comparison between fire tube & Water tube Boiler	1
20	26.04.22		Description & working of - Cochran boiler	1
21	30.4.22		Description & working of s - Lancashire Boiler	2
22	2.05.22		Description & working of -Babcock & Wilcox Boiler	1
23	03.05.22		Boiler Draught (Forced, induced & balanced	1
24	07.05.22		Boiler mountings & accessories	2
25	09.05.22	Steam Power Cycles CHAP-5	Carnot cycle with vapour	1
26	10.5.22		Derive work & efficiency of the cycle	1
27	14.05.22		Rankine cycle- Representation in P-V, T-S & h-s diagram	2
28	16.5.22		HOLIDAY	
29	17.5.22		,Rankine cycle- Derive Work & EfficiencyRankine cycle-Effect of Various end conditions	1

30	21.5.22		Reheat cycle & regenerative Cycle	2
31	23.5.22		simple numerical on Carnot vapour Cycle & Rankine Cycle	1
32	24.5.22	**Heat Transfer CHAP-6**	Modes of Heat Transfer (Conduction, Convection, Radiation	1
33	28.5.22		Fourier law of heat conduction and thermal conductivity (k).	2
34	31.5.22		Newton's laws of cooling	1
35	4.06.22		Radiation heat transfer (Stefan, Boltzmann & Kirchhoff's law) only statement, no derivation & no numerical problem.	2
36	6.6.22		Black body Radiation, Definition of Emissivity, absorptivity, & transmissibility	1
37	7.6.22		Black body Radiation, Definition of Emissivity, absorptivity, & transmissibility	1
			TOTAL	**46**

14/03/22

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14/3/22

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