LESSON PLAN.

ACADEMY SESSION - SUMMER 2022

4th SEMESTER W.E.F-10/03/2022 Total Period :- 48

Subject:- Thermal Engineering-II

Teacher :- HEMANTA KUMAI	: BARIK(W/S SUPDT, MECHAN	ICAL ENGINEERING DEPT.)
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<u> </u>	leacher :- HEMANTA KUMAR BARIK(W/S SUPDT, MECHANICAL ENGINEERING DEPT.)							
SL NO	TH	Week	Date	UNIT NO/PE RIOD ALLOT ED	Topic to be covered as per Syllabus	actually covered as per Syllabu		remark s
1	3rd Week	2nd Week	3/10/2022	8	Define Mechanical Efficiency, Indicated Thermal Efficiency			
2			3/14/2022		Relative Efficiency, Brake Thermal Eficiency,Overall Efficiency			
3		3rd Week	3/15/2022		Mean Effective Pressure & Specific Fuel Consumption			
4			3/16/2022		Define air-fuel ratio& calorific value of fuel			
5			3/17/2022		Workout problems to determine efficiencies & specific fuel consumption.			
6	MARCH		3/21/2022		Doubt clearing class on 1 st chapter.			
7	Σ	4th Week	3/22/2022		Explain functions of air-compressor & it's industrial use.			
8		4tii week	3/23/2022		Classify air-compressor & principle of operation.			
9			3/24/2022		Describe parts & working principle of a reciprocating air- compressor			
10			3/28/2022	12	Explain various terminology for reciprocating compressor.			
11		5th Week	3/29/2022		Derive workdone of single stage air-compr. with & without clearance			
12			3/30/2022		Derive workdone of double stage air-compr. with & without clearance			
13			4/4/2022		Workout simple problems.			
14		1st Week	4/5/2022		Doubt clearing class on air- compressor			
15			4/6/2022		Difference between gas & vapour.			
16			4/7/2022		Formation of steam & its type.			
17				L	Representing steam on P-V, T-S,H-S & T-H diagram			
18		2nd Week	4/12/2022	12	Definition & properties of steam.			
19			4/13/2022		Use of steam table & Mollier chart			
20	APRIL	4/18/2022 4	Non-flow & flow processes of vapour.					
21	,	3rd Week	4/19/2022		Determine the changes in properties & solve simple numerals.			
22			4/20/2022		-do-			
23			4/21/2022		INTERNAL EXAMINATION			
24		4th Week	4/25/2022		Revision of internal exam. Questions.	l		
25			4/26/2022		Classification of boiler			
26			4/27/2022		Types of boiler	-		
27	.		4/28/2022		Important terms connected with boiler			
28			5/2/2022		Comparision between firetube & watertube boiler.			
29	-		5/4/2022		Description & working of Cochran Boiler			
30			5/5/2022	12	Description & working of Babcock & Wilcox Boiler			

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31		2nd Week	5/9/2022		Description & working of Lancashire Boiler		
32			5/10/2022		Boiler Draught		
33	4	5/11/2022		Boiler Mountings			
34		5/12/2022		Boiler Accssessories			
35		5/17/2022		Doubt Clearing class.			
36	2	3rd Week	5/18/2022	8	Carnot cycle with vapour.		
37			5/19/2022		Derive work & efficiency		
38			5/23/2022		Rankine cycle in P-V, T-S &H-S diagram		
39		4th Week	5/24/2022		Derive work & efficiency of Rankine cycle		
40		4tii week	5/25/2022		Effect of various end condition in Rankine cycle		
41			5/26/2022		Reheat cycle & Regenerative cycle		
42		5th Week	5/31/2022		Simple problems on Carnot vapour cycle & Rankine cycle.		
43			6/1/2022		Doubt clearing class on staem power cycle.		
44		1st Week	6/2/2022		Modes of heat transfer & Fourier's law of heat conducton & thermal conductivity.		
45			6/6/2022	8	Newton's law of cooling & Radiation heat transfer(Stifan- Boltzman &Kirchoff's law)		
46	-		6/7/2022		Black body radiation, emissivity		
47			6/8/2022		absorptivity & transmissivity.		
48			6/9/2022		Doubt clearing class on heat transfer.		