

LESSON PLAN.								
ACADEMY SESSION - SUMMER 2023								
4th SEMESTER W.E.F-14/02/2023 Total Period :- 53								
Subject:- Thermal Engineering-II								
Teacher :- HEMANTA KUMAR BARIK(EX. W/S SUPDT, MECHANICAL ENGINEERING DEPT.)								
SL NO	MONTH	Week	Date	UNIT NO/PERIOD ALLOTTED	Topic to be covered as per Syllabus	Topic actually covered as per Syllabus	Short fall if any/syllabus	remarks
1	FEBRUARY	3RD	14-02-2023	8	Define Mechanical Efficiency, Indicated Thermal Efficiency			
2			14-02-2023		Relative Efficiency, Brake Thermal Efficiency, Overall Efficiency			
3			16-02-2023		Mean Effective Pressure & Specific Fuel Consumption			
4		4TH	21-02-2023		Define air-fuel ratio & calorific value of fuel			
5			21-02-2023		Workout problems to determine efficiencies & specific fuel consumption.			
6			23-02-2023		Doubt clearing class on 1 st chapter.			
7			25-02-2023		Explain functions of air-compressor & its industrial use.			
8		5TH	28-02-2023		Classify air-compressor & principle of operation.			
9			28-02-2023		Describe parts & working principle of a reciprocating air-compressor			
10	MARCH	1ST	02-03-2023	12	Explain various terminology for reciprocating compressor.			
11			04-03-2023		Derive workdone of single stage air-compr. with & without clearance			
12		2ND	09-03-2023		Derive workdone of double stage air-compr. with & without clearance			
13			11-03-2023		Workout simple problems.			
14		3RD	14-03-2023		Doubt clearing class on air-compressor			
15			14-03-2023		Difference between gas & vapour.			
16			16-03-2023		Formation of steam & its type.			
17			18-03-2023		Representing steam on P-V, T-S, H-S & T-H diagram			
18		21-03-2023	12	Definition & properties of steam.				

19	APRIL	4TH	21-03-2023	--	Use of steam table & Mollier chart			
20			23-03-2023		Non-flow & flow processes of vapour.			
21			25-03-2023		Determine the changes in properties & solve simple numerals.			
22		5TH	28-03-2023		-do-			
23			28-03-2023		INTERNAL EXAMINATION			
24		2ND	04-04-2023	12	Revision of internal exam. Questions.			
25			04-04-2023		Classification of boiler			
26			06-04-2023		Types of boiler			
27			08-04-2023		Important terms connected with boiler			
28		3RD	11-04-2023		Comparision between firetube & watertube boiler.			
29			11-04-2023		Description & working of Cochran Boiler			
30			13-04-2023		Description & working of Babcock & Wilcox Boiler			
31	15-04-2023		Description & working of Lancashire Boiler					
32	4TH	18-04-2023	Boiler Draught					
33		18-04-2023	Boiler Mountings					
34		20-04-2023	Boiler Accsessories					
35		22-04-2023	Doubt Clearing class.					
36	5TH	25-04-2023	8	Carnot cycle with vapour.				
37		25-04-2023		Derive work & efficiency				
38		27-04-2023		Rankine cycle in P-V, T-S & H-S diagram				
39		29-04-2023		Derive work & efficiency of Rankine cycle				
40	1ST	02-05-2023		Effect of various end condition in Rankine cycle				
41		02-05-2023		Reheat cycle & Regenerative cycle				
42		04-05-2023		Simple problems on Carnot vapour cycle & Rankine cycle.				
43		06-05-2023		Doubt clearing class on staem power cycle.				
44	2ND	09-05-2023	8	Modes of heat transfer & Fourier's law of heat conducton & thermal conductivity.				
45		09-05-2023		Newton's law of cooling & Radiation heat transfer(Stifan-Boltzman & Kirchoff's law)				
46		11-05-2023		Newton's law of cooling & Radiation heat transfer(Stifan-Boltzman & Kirchoff's law)				

47		13-05-2023	Newton's law of cooling & Radiation heat transfer(Stifan-Boltzman & Kirchoff's law)			
48	3RD	16-05-2023	Black body radiation,emissivity			
49		16-05-2023	Black body radiation,emissivity			
50		18-05-2023	absorptivity & transmissivity.			
51		20-05-2023	absorptivity & transmissivity.			
52	4TH	23-05-2023	Doubt clearing class on heat transfer.			
53		23-05-2023	Doubt clearing class on heat transfer.			

