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Prepared: Name/Sign/Date	Reviewed: Name/Sign/Date	Approved: Name/Sign/Date CM/ /

Name of the Institute:		C. V. Raman		
Department:		Mechanical Engineering		
Semester/Division/Branch: Subject Name with code:		Sem		
		4th Thermal Engineering-II Date (Lesson Pl.		
				n):
Total No. of Class (Required):		60	PLANTE MERCEN CONTRACTOR	
		Mr. Prakash Kumar Parida		
Facu	ilty Name:	C (instrantials	G SLY IS MORE	
<u> </u>	Brief Description of the	Tanic/Chapter t	o be taught	Remarks
Class No.	Brief Description of the	e Tobic/ chapter		
1	Define mechanical efficiency, Ind	ine mechanical efficiency, Indicated thermal efficiency,		
1 -	Palativa Efficiency, brake thermal	l efficiency overal	Terriciency	
2	Relative Efficiency, brake thermal efficiency overall efficiency Mean effective pressure & specific fuel consumption.		on.	
3	Define air-fuel ratio & calorific value of fuel.		Charles and any man facilities	
4	Define air-fuel ratio & calorino		ecific fuel	No. of Contract of the
5	Work out problems to determine efficiencies & specific fuel			
6	consumption. Work out problems to determine efficiencies & specific fuel			
D				
7	Explain functions of compressor & industrial use of compressor and			
8	Classify air compressor & principle of operation.			
9	Describe the parts and working principle of reciprocating Air			
	an marge of			
10	Describe the parts and working principle of reciprocating Air			asimo instruires de la
	compressor		or such as hore.	
11	Explain the terminology of reciprocating compressor such as bore, stroke, pressure ratio free air delivered &Volumetric efficiency			
12	To the terminology of reciprocating compressor such as bore,			
12	etroko pressure ratio free air delivered &volumetric efficiency			
13	Typicin the terminology of reciprocating compressor such as bore,		or such as bore,	
	stroke, pressure ratio free air delivered &Volumetric efficiency		ric efficiency	
14	Explain the terminology of reciprocating compressor such as bore, stroke, pressure ratio free air delivered &Volumetric efficiency		ric efficiency	
1.	stroke, pressure ratio free air dell'	age & two stage	compressor with and	
15	Derive the work done of single stage & two stage compressor with and			

	ith and	
10	Derive the work done of single stage & two stage compressor with and	
16	Derive the work done of single stage of	
17	without clearance Derive the work done of single stage & two stage compressor with and	
	without clearance	
18	Derive the work done of single stage & two stage compressor with and	
	without clearance	
19	Solve simple problems (without clearance only)	
20	Difference between gas & vapors.	
21	Formation of steam.	
22	Representation on P-V, T-S, H-S, & T-H diagram.	
23	Definition & Properties of Steam.	The second second
24		
25	Use of steam table & mollier chart for finding unknown properties.	
26	Non flow & flow process of vapor.	
27	P-V, T-S & H-S, diagram.	
	P-V, T-S & H-S, diagram.	
28	Determine the changes in properties & solve simple numerical.	
29	Classification & types of Boilers.	
30	Important terms for Boiler	
31	Comparison between fire tube & Water tube Boiler.	
32	Description & working of common by the	
	Description & working of common boilers (Cochran, Lancashire, Babcock & Wilcox Boiler)	
33	Description & working of common balls to the	
34	Babcock & Wilcox Boiler)	File Co. Land Co. Co.
	Boiler Draught (Forced, induced & balanced)	
35	Boiler mountings & accessories.	
36	Carnot cycle with vapor.	
37	Derive work & efficiency of the cycle.	
38	Rankine cycle.	
39	Rankine cycle.	
40	Representation in P-V, T-S & h-s diagram.	
41	Representation in P-V, T-S & h-s diagram.	
42	Derive Work & Efficiency.	
43	Derive Work & Efficiency.	
44	Effect of Various end conditions in Rankine cycle.	

45	Reheat cycle & regenerative Cycle.	
46	Reheat cycle & regenerative Cycle.	The same of the sa
47	Solve simple numerical on Carnot vapor Cycle & Rankine Cycle.	
48	a La cincia numerical on Carnot vapor Cycle & Rankine Cycle.	
49	Carnot vapor Cycle & Ranking	
50	Modes of Heat Transfer (Conduction, Convection, Radiation).	
51	Modes of Heat Transfer (Conduction, Convection, Radiation). Modes of Heat Transfer (Conduction, Convection, Radiation). Fourier law of heat conduction and thermal conductivity (k).	
52	Fourier law of heat conduction and thermal conductivity (k).	
53		
54	Newton's laws of cooling. Radiation heat transfer (Stefan, Boltzmann & Kirchhoff's law) only Radiation heat transfer (Stefan, Boltzmann & Kirchhoff's law) only	
55	statement, no derivation for Boltzmann & Kirchnon State	
6	Radiation heat transfer (Stefan, Boltzmann Radiation heat transfer (
7	Black body Radiation, Definition of Emissivity, absorptivity, & Black body Radiation, Definition of Emissivity, absorptivity, &	
	iccipility.	
	Revision and Doubt Clearing	

Signature of the Faculty

Signature of the H.O.D