## Lesson Plan

Name of the Institute:  Department:  Semester/Division/Branch:  Subject Name with code:  Total No. of Class (Required):  Faculty Name:		C. V. Raman Polytechnic					
		Mechanical Engineering  4th Sem  Thermal Engineering-II  60  Mr. Prakash Kumar Parida					
				Class No.	Brief Description of the	Topic/Chapter to be taught	Remarks
				1	Define mechanical efficiency, Indicated thermal efficiency,		
				2	Relative Efficiency, brake thermal	efficiency overall efficiency	51 25 - 25 - 25 - 25 - 25 - 25 - 25 - 2
				3	Mean effective pressure & specific	* - J NJ P	
4	Define air-fuel ratio & calorific value of fuel.						
5	Work out problems to determine ef consumption.	fficiencies & specific fuel					
6	Work out problems to determine ef consumption.						
7	Explain functions of compressor &	industrial use of compressor air					
8	Classify air compressor & principle	e of operation.					
9	Describe parts and working princip	le of reciprocating Air compressor.					
10	Describe parts and working princip	le of reciprocating Air compressor.					
11	Explain the terminology of reciprocating compressor such as bore, stroke						
12	Pressure ratio free air delivered &Volumetric efficiency						
13	Explain the terminology of reciprocating compressor such as bore, stroke						
14	Pressure ratio free air delivered &V	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그					
15	Derive the work done of single stage & two stage compressor with and without clearance						
16	Derive the work done of single stage & two stage compressor with and without clearance						
17	Derive the work done of single stage without clearance	e & two stage compressor with and					
18	Derive the work done of single stage without clearance	e & two stage compressor with and					
19	Solve simple problems (without clear	nrance 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.	
24	Use of steam table & mollier chart for finding	
25	Tow process of vanor	
26	P-V, T-S & H-S, diagram.	
27	P-V, T-S & H-S, diagram.	
28	Determine the changes in program	
29	Determine the changes in properties & solve simple numerical.  Classification & types of Boilers.	
30	Important terms for Boiler.	
31	Comparison between fire 4.1.	
32	Comparison between fire tube & Water tube Boiler.  Description & working of	
33	Description & working of common boilers (Cochran, Lancashire,  Description & working of common boilers (Cochran, Lancashire,  Description & working of common boilers (Cochran, Lancashire,  Babcock & Wilcox Boiler)	
34	Babcock & Wilcox Boiler)  Roiler D.	
35	Boiler Draught (Forced, induced & balanced)	
33	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.	
16	Reheat cycle & regenerative Cycle.	
17	당식 하는 어린 아이는 그렇게 하다고 있다면 하는 이번 생활하고 있다. 그는 그들은 사람들이 하나가 중심하는 사람들이 가지 않는다.	
18	Solve simple numerical on Carnot vapor Cycle & Rankine Cycle.	
19	Solve simple numerical on Carnot vapor Cycle & Rankine Cycle.	
4	Solve simple numerical on Carnot vapor Cycle & Rankine Cycle.	
0	Modes of Heat Transfer (Conduction, Convection, Radiation).	
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52	Fourier law of heat conduction and thermal conductivity (k).	
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54	Newton's laws of cooling.	
55	Radiation heat transfer (Stefan, Boltzmann & Kirchhoff's law) only statement, no derivation & no numerical problem.	
56	Radiation heat transfer (Stefan, Boltzmann & Kirchhoff's law) only statement, no derivation & no numerical problem.	
57	Black body Radiation, Definition of Emissivity, absorptivity, & transmissibility.	
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59	Revision and Doubt Clearing	
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Signature of the Faculty