LESSON PLAN.

W.E.F:- 01/08/2023 WINTER

Subject :-RAC , Subject code - Th-5

Total Period.- 60 per Sem

Teacher :-			DHARMA PRAKASH SAMAL(LECT., MECHANICAL ENGINEERING DEPT.)			Theory :- 4p/wee SEMESTER:-5TH	
SL NO	MONTH	Wee k	DATE	UNIT NO/PER IOD ALLOTE D	Syllabus to be covered	Syllabus actually covered	Short fall
1		1ST -	01-08-23	5	AIR REFRIGERATION CYCLE. Definition of refrigeration and unit of refrigeration		
2			2-08-23		Definition of COP, Refrigerating effect (R.E)		
3			3-08-23		Principle of working of open and closed air system of refrigeration.		
4		2ND	7-08-23		Calculation of COP of Bell-Coleman cycle and numerical on it		
5			8-08-23		Calculation of COP of Bell-Coleman cycle and numerical on it		
6			9-08-23		SIMPLE VAPOUR COMPRESSION REFRIGERATION SYSTEM, schematic diagram of simple vapors compression refrigeration system'		
7			10-08-23		Cycle with dry saturated vapors after compression.		
8		r 3RD	14-08-23		Cycle with wet vapors after compression		
9	AUGUST		16-08-23		Cycle with superheated vapors after compression		
10			17-08-23		Cycle with superheated vapors before compression		
11		4TH	21-08-23		Cycle with sub cooling of refrigerant		
12			22-08-23		Representation of above cycle on temperature entropy and pressure enthalpy		
13			23-08-23		Representation of above cycle on temperature entropy and pressure enthalpy diagram		
14			24-08-23		Numerical on above (determination of COP,mass flow		
15			28-08-23		Numerical on above (determination of COP,mass flow		
16		5TH	29-08-23		VAPOUR ABSORPTION REFRIGERATION SYSTEM, Simple vapor absorption refrigeration system		

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17			31-08-23		Practical vapor absorption refrigeration		
					system		
18			4-09-23		Practical vapor absorption refrigeration		
				7	system		
19		ONID	5-09-23		COP of an ideal vapor absorption		
		2ND			refrigeration system		
					COP of an ideal vapor absorption		
20			7-09-23		refrigeration system		
21			11-09-23		Numerical on COP		
22			12-09-23		Numerical on COP		
			13-09-23		Types of evenerator		
23		3RD	14-09-23		Types of evaporator.		
24			14-09-23		REFRIGERATION EQUIPMENTS, Principle of working and constructional details of reciprocating		
	SEPTEM				and rotary compressors.		
25	BER		18-09-23		Centrifugal compressor only theory		
		4TH	21-09-23				
26			21-09-23		Important terms.Hermetically and semi hermetically sealed compressor.		
27			25-09-23		CONDENSERS, Principle of working and constructional		
				8	details of air cooled and water cooled condenser		
28			26-09-23		Heat rejection ratio, Cooling tower and spray pond.		
		c=::					
29		5TH	27-09-23		5,4000,4700,011,11		
					EVAPORATORS, Principle of working		
					and constructional details of an evaporator.		
30			28-09-23		Bare tube coil evaporator, finned evaporator, shell		
					and tube evaporator		
31			3-10-23		EXPANSION VALVES, Capillary tube		
32			4-10-23		Automatic expansion valve, Thermostatic expansion		
		1ST			valve		
33			5-10-23		REFRIGERANTS, Classification of		
					refrigerants		
34			9-10-23		Desirable properties of an ideal	<u> </u>	
35			10-10-23		Designation of refrigerant.	 	
33			10 10-20		Designation of reingerant.		
36		2ND	11-10-23	10	Thermodynamic Properties of		
					Refrigerants.		
37			12-10-23		Chemical properties of refrigerants.		
38	ОСТОВЕ		16-10-23		commonly used refrigerants, R-11, R-12		
39	R		17-10-23		Applications of refrigeration, cold storage, dairy		
					refrigeration		
40		3RD	18-10-23		ice plant,water cooler		
			10 10 00				
41			19-10-23		frost free refrigerator		
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42]		25-10-23		Psychometric terms, Adiabatic saturation of air by	
'-		4711			evaporation of w	
43		4TH	26-10-23		Psychometric chart and uses	
44			30-10-23		Sensible heating and Cooling	
45		5TH	31-10-23	10	Cooling and Dehumidification	
46		1ST	1-11-23		Heating and Humidification	
47			2-11-23		Adiabatic cooling with humidification	
48			6-11-23		Total heating of a cooling process	
49			7-11-23		SHF, BPF,	
		2ND				
50			8-11-23		Adiabatic mixing	
51			9-11-23		Problems on above	
52		3RD	13-11-23		Effective temperature and Comfort chart	
53	NOVEM		14-11-23	10	AIR CONDITIONING SYSTEMS	
54	BER		15-11-23		Factors affecting comfort air conditioning	
55]		16-11-23		Equipment used in an air-conditioning.	
56			20-11-23		Classification of air-conditioning system	
57			21-11-23		Winter Air Conditioning System	
58		4TH	22-11-23		Summer air-conditioning system.	_
59			23-11-23		Numerical on above.	
60			28-11-23		Numerical on above.	
61		5TH	29-11-23		Revision	
62	1		30-11-23		Revision	

