

LESSON PLAN- WINTER 2023
SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY, BBSR

DISCIPLINE- MECHANICAL	SEMESTER -5TH	NAME OF TEACHING FACULTY: ER. Umesh Kumar Sahoo
SUBJECT- RAC	NO. CLASS ALLOTTED/PER WEEK -5	SEM from date- 01.08.2023 TO 30.11.2023 No. of weeks- 19TH
WEEK	CLASS DAY	THEORY TOPIC
1ST	2.08.2023	Defination of refrigeration, unit of refrigeration
	3.08.2023	COP , Refrigerating effect
	4.08.2023	Principle of working of open and closed air system of refrigeration.
	7.08.2023	Principle of working of open and closed air system of refrigeration.
	8.08.2023	Calculation of COP of Bell-Coleman cycle
2ND	9.08.2023	Numerical Problem
	10.08.2023	schematic diagram of simple vapors compression refrigeration system'
	11.08.2023	Types of scematic diagram
	14.08.2023	Cycle with dry saturated vapors after compression.
3RD	15.08.2023	Cycle with wet vapors after compression.
	16.08.2023	Cycle with superheated vapors after compression.
	17.08.2023	Cycle with superheated vapors before compression
4TH	18.08.2023	Cycle with sub cooling of refrigerant
	19.08.2023	Representation of above cycle on temperature entropy
	21.08.2023	and pressure enthalpy diagram
	22.08.2023	Numerical on above (determination of COP,mass flow)
5TH	24.08.2023	Numerical on above (determination of COP,mass flow)
	25.08.2023	Simple vapor absorption refrigeration system
	26.08.2023	Practical vapor absorption refrigeration system
6TH	29.08.2023	COP of an ideal vapor absorption refrigeration system
7TH	1.09.2023	Numerical on COP.
	2.09.2023	Revision Class
	4.09.2023	REFRIGERANT COMPRESSORS, Principle of working, construction of reciprocating
	5.09.2023	Principle of working and constructional details of rotary compressors.
8TH	08.09.2023	Centrifugal compressor
	12.09.2023	Hermetically and semi hermetically sealed compressor.
	13.09.2023	Principle of working and constructional details of air cooled and water cooled
	14.09.2023	Heat rejection ratio
	15.09.2023	Cooling tower and spray pond.
9TH	18.09.2023	Monthly Test
	21.09.2023	EVAPORATORS
	22.09.2023	Principle of working and constructional details of an evaporator.
	23.09.2023	Types of evaporator
10TH	25.09.2023	shell and tube evaporator.
	29.09.2023	Refrigerant Flow Controls, Refrigerants

11TH	3.10.2023	Application of Refrigerants
	5.10.2023	Expansion valves
12TH	9.10.2023	Capillary tube expansion valve, Automatic expansion valve
	11.10.2023	Internal Assessment
	13.10.2023	Thermostatic expansion valve
13TH	17.10.2023	REFRIGERANTS
	19.10.2023	Classification of refrigerants
14TH	28.10.2023	Desirable properties of an ideal refrigerant.
15TH	3.11.2023	Designation of refrigerant.
16TH	6.11.2023	Thermodynamic Properties of Refrigerants
	8.11.2023	Chemical properties of refrigerants.
	10.11.2023	commonly used refrigerants, R-11, R-12, R-22, R-134a, R-717
17TH	14.11.2023	Substitute for CFC
	16.11.2023	Applications of refrigeration (Cold Storage)
	18.11.2023	Dairy refrigeration
18TH	22.11.2023	Ice Plant, Water Cooler, Frost Free Refrigerator
	24.11.2023	Psychometric Chart and uses
	25.11.2023	Sensible heating and cooling, cooling and Dehumidification, Heating and Humidification
19TH	27.11.2023	Problems on Above
	29.11.2023	Air Conditioning Systems, Factors Affecting, Classification of Air Conditioning Systems
	30.11.2023	Winter AC system, Summer AC system

H.O.D
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