RAC Semester: 5th Name of the teachi
Faculty:
Sankalp Poudhan

Discipline: mechanical Engg. Number of days/week class alloted: 05

Subject: Refrigeration & Air conditioning

Semester 19
From to: 01/12/21
08/04/22

Week	No. of Period	Topics to be covered
1st oct	1st	Definition of Refrigeration
to		Unit of Refrigeration.
2nd oct		Gandhi Jayanti
	1st	Definition of COP, RE.
4th oct	2nd	Principle of working of
to	3rd	open and closed air syst
9th oct	4th	calculation of COP of
	5th	Bell-coleman cycle and
		numerical on it.
11th oct		
to.	— DURGA	PUJA HOLIDAYS —
18th oct		
19th oct	1st	Simple Vapour compression.
to	2nd	Kumar-Purnimel
23rd oct	3rd	Types of Simple Vapour
	4th	compression Refrigeration
	5th	cycle. Numerical on
		above.
25th oct	1st	Simple Vapour absorption
to	2nd	system. Practical Vapour
30th oct	3rd	absorption system.
	4th	COP of an ideal Vapour
	5th	absorption Refrigeration
	1st	Numerical on COP.
1st NOV	2nd	principle of working and
to	3rd	constructional deatiels
6th NOV	4th	of reciprocating and
	5th	water cooler condenser

Week	No. of period	Topics to be covered
8th Nov	1st	Heat rejection ratio
to	2nd	Hermetically and
13th Nov	3rd	hermetically compressor.
	4th	Steam
	5th	principle of working
		of an evaporator.
15th Nov	1st	Last monday of Kartika
to	2nd	Types of evaporator
20th Nov	3rd	Bear tube coil evaporator
	4th	Kartika purnima
	5th	capillary tube.
22nd Nov	1st	Automatic expansion
to	2nd	valve. Thermostatic
27th Nov	3rd	expansion valve.
	4th	classification of Refrigerant
	5th	prelthermesteml
29th Nov	1st	Desirable properties of
to	2nd	an Ideal Refrigerant.
4th Dec	3rd	Designation of Refrigerant
	4th	chemical properties of
	5th	Refrigerant.
6th Dec	1st	Cold Storage. dairy
to	2nd	Refrigeration. ice plant
11th Dec	3rd	water cooler. frost Free
	4th	Refrigerator.
	5th	psychometric terms

Week	No. of period	Topics to be covered
13th Dec	1st	psychometric chart and its
to	2nd	psychometric process.
18th Dec	3rd	Sensible heating and
	4th	cooling. Heating and
	5th	Dehumidification.
20th Dec	1st	SHF, BPF, Adiabatic
to	2nd	mixing. problem on
25th Dec	3rd	above. Effective Temp.
	4th	comfort chart.
	5th	"christ-mas"
27th Dec	1st	Factors affecting comfort
to	2nd	air conditioning.
1st Jan	3rd	Equipment used in an air
	4th	-conditioning.
	5th	" New Yeer's day
3rd Jan	1st	classification of air-conditio
to	2nd	system. winter air
8th Jan	3rd	conditioning system.
	4th	Summer air conditioning
	5th	system. Numerical on
		above.

Verified
01/10/2024