Discipline :	Semester : 5th	Name of The Teaching Faculty:
Mechanical Engg.		Er. SANKAR PRASAD PRADHAN
Subject :	No Of Days/Week Class Allotted	Semester From : 01.08.2023 To 30.11.2023
REFRIGERATION AND AIR CONDITIONING	05	No. Of Weeks : 17
WEEKS	CLASS DAY	THEORY
	1 ST	Definition of refrigeration and unit of refrigeration
01.08.2023	2 nd	Definition of COP
ТО	3 rd	Define Refrigerating effect (R.E)
05.08.2023	4 TH	Define ton of refrigeration
	5™	Principle of working of open and closed air system of
		refrigeration
	1 ST	Calculation of COP of Bell-Coleman cycle and
07.08.2023		numerical on it.
то	2 nd	Slove the problem and calculate cop on BCC
12.08.2023	3 rd	schematic diagram of simple vapors compression refrigeration system'
	4 TH	Cycle with dry saturated vapors after compression
	5 [™]	Cycle with wet vapors after compression
14.08.2023	1 st	Cycle withsuperheated vapors after compression
ТО	2 nd	INDEPENDENCE DAY
19.08.2023	3 rd	Cycle with superheated vapors before compression
	4 TH	Cycle with sub cooling of refrigerant
	5 TH	Representation of above cycle on temperature
	. CT	entropyand pressure enthalpy diagram
21.08.2023	1 st	Numerical on above (determination of COP, mass
то		flow)
26.08.2023	2nd	Simple vapor absorption refrigeration system
	3rd	Practical vapor absorption refrigeration system
	4 th	Numerical on COP of Vapor cycle
	5 th	Principle of working and constructional details of reciprocating and rotary compressors
28.08.2023	1 st	Centrifugal compressor only theory and Important terms.
TO 02.09.2023	2 nd	Principle of working and constructional details of air cooled and water cooled condenser
	3 rd	RAKSHYA BANDHAN
	4 [™]	Heat rejection ratio. and Cooling tower and spray pond.
	5™	Heat rejection ratio. and Cooling tower and spray pond.

	1 st	Types of evaporator
04.09.2023	2 TH	Bare tube coil evaporator, finned evaporator, shell
ТО		andtube evaporator
09.09.2023	3 TH	JANMASTAMI
	4 TH	Expansion valves and Capillary tube
	5 [™]	Automatic expansion valve
11.09.2023 TO	1 ST	Thermostatic expansion valve
	2 TH	Defination of Refrigerant and Classification of
		refrigerants
16.09.2023	3 [™]	Desirable properties of an ideal refrigerant
	4 [™]	Designation of refrigerant and convert to
		chemicalname
	5 [™]	Designation of refrigerant and Chemical properties of refrigerants
18.09.2023 TO	1 st	commonly used refrigerants, R-11, R-12, R-22, R- 134a,R-717
	2 nd	GANESH CHATURTHI
23.09.2023	3 rd	NUA KHAI
	4 TH	Substitute for CFC
	5 [™]	Applications of refrigeration, cold storage
	- CT	dairy refrigeration and ice plant
25.00.2022	1 ST	Water cooler
25.09.2023 TO	2 nd 3 rd	frost free refrigerator
30.09.2023	3 [.] ℃ 4 TH	Psychrometry
50.05.2025	4 5 [™]	Comfort Air Conditioning system BIRTHDAY OF MOHAMMAD
	C	BIRTHDAT OF MICHAMIMAD
	1 st	GANDHI JAYANTI
02.10.2023	2 nd	Psychometric terms
ТО	3 rd	Psychometric chart and uses
07.10.2023	4 TH	Psychometric processes
	5 TH	Sensible heating and Cooling
09.10.2023 TO	1 st	Cooling and Dehumidification
	2 ^{na}	Heating and Humidification
14.10.2023	3''	Adiabatic cooling with humidification
	4 TH	Total heating of a cooling process SHF, BPF
	. 5 [™]	Adiabatic mixing
	1 st	Problems on Heating and Humidification
16.10.2023	2nd	Effective temperature and Comfort chart
ТО		Factors affecting comfort air conditioning
21.10.2023	3 [™]	Revision
	4 [™]	SHF ,BPF Concept
	5 TH	Problems on Heating and Humidification

	1 ST	
22.40.2022	1 ⁵¹ 2 [™]	
23.10.2023		DRUGA PUJA HOLIDAY
TO	3 [™]	
28.10.2023	4 TH	
	5 TH	
	1 st	
30.10.2023 TO 04.11.2023	2 [™]	Classification of air-conditioning system
	3 [™]	Equipment used in an air-conditioning
	4 TH	Winter Air Conditioning System
	5 TH	Different between winter and summer air
	-	conditioningsystem
	1 ST	Solve Numerical on above Air Conditioning System
06.11.2023	2 TH	Solve the numerical with the help of TS and PH
ТО		digram
11.11.2023	3 [™]	Solve the numerical with the help of TS and PH
		digram
	4 [™]	Solve the numerical with the
		help of TS and PH digram
	5 [™]	Simple vapor compression
		refrigeration system Revision
	1 ST	Practical vapor compression
13.11.2023		refrigeration system Revision
то	2 [™]	Simple vapor absorption
18.11.2023		refrigeration system Revision
	3 [™]	Solve the numerical on
		previous year question
	4 TH	Solve the numerical on
		previous year question
	5 TH	Revision
	-	Revision
	1 ST	Discuss the long type of theory previous year asked
20.11.2023 TO 25.11.2023	-	question
	2 TH	
	3 [™]	Discuss the long type of theory previous year asked
		question
	4 TH	Discuss the long type of theory previous year
		asked question
	5 TH	Discuss short type of
		previous year asked question
27.11.2023 TO 30.11.2023	1 st	RAHASA PURNIMA
	2 TH	Discuss short type of
		previous year asked question
	3 [™]	Discuss short type of previous
		year asked question
	4 TH	Revision