JHARSOGUDA ENGINEERING SCHOOL, JHARSUGUDA			
MECHANICAL ENGIN	EERING DEPARTMENT		
Name of the Faculty: P Proster	Session: 2022-23		
M Correspondence			
101. SOILON			
Course code.:	Course Name: B&AC		
Programa: Dialaura	course Wante: NoAC		
Frograme: Diploma	Department: Mech. Dept.		
Semester: 5th	Section: M1 8, M2		
Branch-MECHANICAL			
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COLOR STATE

WEEK	PERIOD	UNIT	HOUR	
	1			Definition of refrigoration and units of a failed
	2			of the figuration and unit of ferrigeration
	2			Definition of COP, Refrigerating effect
	3			Principle of working of open and closed air system of refrigeration
1	4			Calculation of COP of Bell-Coleman cycle
	5	1	5	Problem on Bell-Coleman cycle
	6			simple vapors compression refrigeration system
	7	'		schematic diagram of simple vapors compression refrigeration system
2	5	3		simple vapors compression refrigeration cycle with dry saturated vapors after compression
	9	Ð		simple vapors compression refrigeration cycle with wet vapors after compression
	10	D		simple vapors compression refrigeration cycle with superheated vapors after compression
	1	1		simple vapors compression refrigeration cycle with superheated vapors before compression
3	1	2		simple vapors compression refrigeration cycle with sub cooling of refrigerant
	1	3		temperature entropy and pressure enthalpy diagramsimple vapors compression refrigeration cycle
	1	4		Problem on simple vanors compression refrigeration cycle
	1	5 2	10	
		<u> </u>	10	riobien on simple vapors compression reingeration cycle
4	1	6	1	Simple vapor absorption refrigeration system

	17			Simple vapor absorption refrigeration surt
5	18			Practical vapor absorption refrigeration system
	19			Practical vapor absorption refrigeration system
5	20			COP of an ideal vapor absorption system
	21			Problem on ideal vapor absorption refrigeration system
	22	3	7	problem on ideal vapor absorption refrigeration system
	23			Principle of working a baserption refrigeration system
6	24			Principle of working and constructional details of reciprocating compressors
				r miciple of working and constructional details of rotary compressors
	25			Centrifugal compressor, important terms. Hermetically and easily and easily
	26			Principle of working and constructional details of air cooled in the metically sealed compressor.
	27			Heat rejection ratio, Cooling tower and snray pond
/	28			Principle of working and constructional details of an and
	29			Bare tube coil evaporator, finned evaporator
	30	4	8	shell and tube evaporator
	31			EXPANSION VALVES : Capillary tube, Automatic average
8	32			Thermostatic expansion valve
	33			Classification of refrigerants
	34			Desirable properties of an ideal refrigerant
	35			Designation of refrigerant.
9	36			Thermodynamic Properties of Refrigerants, Chemical
	37			commonly used refrigerants R-11 R-12 R-22 R-124
	38			Applications of refrigeration: cold storage, data (4)
	39			Applications of refrigeration: ice plant
10	40	5	10	Applications of refrigeration: water cooler, front f
	41			Psychometric terms, Adjabatic saturation of air l
	42			Psychometric chart and uses
	42			
11	43			Psychometric processes: Sensible heating and Cooling, Cooling and Debumidification, March 1997
	44			Adiabatic cooling with humidification
•	45		1	Total heating of a cooling process
\int	of the			

VAC	ANC							
1		46	1		SHF, BPF,Adiabatic mixing			
	F	47			Problem on Psychometric processes			
	12	48	1		Problem on Psychometric processes			
		49			Problem on Psychometric processes			
1	1	50	6	10	Effective temperature and Comfort chart			
		51			Factors affecting comfort air conditioning.			
	13	52			Equipment used in an air-conditioning			
		53			Summer air-conditioning system.			
		54			Summer air-conditioning system.			
		55	1		Winter Air Conditioning System			
	14	56	1		Winter Air Conditioning System			
		57	1		Problem on Summer air-conditioning system.			
		58	3		Problem on Summer air-conditioning system.			
		59			Problem on Winter air-conditioning system.			
	15	60	7 0	10	Problem on Winter air-conditioning system.			

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Signature of faculty member

- / Signature of i/c HOD