JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA MECHANICAL ENGINEERING DEPARTMENT				
Course code.: Th. 5	Course Name: R % AC			
Programe: Diploma	Department: Mechanical engg.			
Semester: 5th Sem	Section: M. IMa			
Branch:MECHANICAL				

WEEK	PERIOD	UNIT	HOUR	Topic to be Covered
	1			Definition of refrigeration and unit of refrigeration
	2			Definition of COP, Refrigerating effect
	3		l	Principle of working of open and closed air system of refrigeration
1	4		l	Calculation of COP of Bell-Coleman cycle
	5	1	5	Problem on Bell-Coleman cycle
	6			simple vapors compression refrigeration system
	7		1	schematic diagram of simple vapors compression refrigeration system
2	8		1	simple vapors compression refrigeration cycle with dry saturated vapors after compression
	9		l	simple vapors compression refrigeration cycle with wet vapors after compression
	10		l	simple vapors compression refrigeration cycle with superheated vapors after compression
	11		l	simple vapors compression refrigeration cycle with superheated vapors before compression
3	12		1	simple vapors compression refrigeration cycle with sub cooling of refrigerant
	13			temperature entropy and pressure enthalpy diagramsimple vapors compression refrigeration cycle
	14		l	Problem on simple vapors compression refrigeration cycle
	15	2	10	Problem on simple vapors compression refrigeration cycle
4	16			Simple vapor absorption refrigeration system

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1		46		1	SHF, BPF, Adiabatic mixing
		47		l	Problem on Psychometric processes
١	12	48			Problem on Psychometric processes
		49		1	Problem on Psychometric processes
		50	6	10	Effective temperature and Comfort chart
	1	51			Factors affecting comfort air conditioning.
	13	52		l	Equipment used in an air-conditioning
		53		l	Summer air-conditioning system.
		54		l	Summer air-conditioning system.
		55			Winter Air Conditioning System
	14	56			Winter Air Conditioning System
		57		l	Problem on Summer air-conditioning system.
		58		l	Problem on Summer air-conditioning system.
		59		l	Problem on Winter air-conditioning system.
	15	60	7	10	Problem on Winter air-conditioning system.

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