RAJA KISHORE CHANDRA ACADEMY OF TECHNOLOGY NILGIRI, BALASORE **DEPARTMENT OF MECHANICAL ENGINEERING**

LESSON PLAN

SUBJECT- REFRIGERATON AND AIR CONDITIONING

BRANCH-MECHANICAL

NAME OF THE FACULTY- ER. BADRI NARAYAN PATRA

SEMESTER-5TH

SESSION-

SESSION- UNIT	DATE	LECTURE NO	TOPIC TO BE COVERED
1		1	DEFINITION OF REFRIGERATION AND UNIT OF
			REFRIGERATION.
		2	DEFINITION OF COP, REFRIGERATING EFFECT (R.E)
		3	PRINCIPLE OF WORKING OF OPEN AND CLOSED AIR SYSTEM
			OF REFRIGERATION.
		4	CALCULATION OF COP OF BELL-COLEMAN CYCLE
		5	NUMERICALS ON BELL COLEMAN CYCLE
2		6	SCHEMATIC DIAGRAM OF SIMPLE VAPOUR COMPRESSION
			REFRIGERATION SYSTEM ,COMPONENTS AND WORKING
		7	CYCLE WITH DRY SATURATED VAPORS AFTER COMPRESSION,
			REPRESENTATION IN TEMEPERATURE-ENTROPY AND
			PRESSURE AND ENTHAPLY SYSTEM
		8	NUMERICALS OF VAPOUR COMPRESSSION SYSTEM WITH DRY
			SATURATED VAPOUR AFTER COMPRESSSION
		9	CYCLE WITH WET VAPORS AFTER COMPRESSION,
			REPRESENTATION IN TEMEPERATURE-ENTROPY AND
			PRESSURE AND ENTHAPLY SYSTEM
		10	NUMERICALS OF VAPOUR COMPRESSSION SYSTEM WITH WET
			SATURATED VAPOUR AFTER COMPRESSSION
		11	CYCLE WITH SUPERHEATED VAPORS AFTER COMPRESSION,
			REPRESENTATION IN TEMEPERATURE-ENTROPY AND
			PRESSURE AND ENTHAPLY SYSTEM
		12	NUMERICALS OF VAPOUR COMPRESSSION SYSTEM WITH
			SUPERHEATED VAPOUR AFTER COMPRESSSION
		13	CYCLE WITH SUPERHEATED VAPORS BEFORE COMPRESSION,
			REPRESENTATION IN TEMEPERATURE-ENTROPY AND
			PRESSURE AND ENTHAPLY SYSTEM
		14	NUMERICALS OF VAPOUR COMPRESSSION SYSTEM WITH
			SUPERHEATED VAPOUR BEFORE COMPRESSSION
		15	CYCLE WITH SUB COOLING OF REFRIGERANT,
			REPRESENTATION IN TEMEPERATURE-ENTROPY AND
			PRESSURE AND ENTHAPLY SYSTEM
3		16	SIMPLE VAPOR ABSORPTION REFRIGERATION SYSTEM
		17	PERFORMANCE TEST
		18	COMPONENTS SUCH AS
			GENERATOR,ABSORBER,EVAPORATOR,CONDENSER
		19	TYPES SUCH AS WATER- AMMONIA, LITHIUM BROMIDE -
			WATER REFRIGEARTION SYSTEM
		20	PRACTICAL VAPOR ABSORPTION REFRIGERATION SYSTEM
		21	COP OF AN IDEAL VAPOR ABSORPTION REFRIGERATION
			SYSTEM
		22	NUMERICALS ON COP OF VAPOUR ABSORPTION
			REFRIGERATION SYSTEM

OF WORKING AND CONSTRUCTIONAL DETAILS OF RECIPROCATING AND ROTARY COMPRESSORS 24WORKING OF CENTRIFUGAL COMPRESSOR, IMPORTANT TERMS RELATED TO CENTRIFUGAL COMPRESSOR, 25HERMETICALLY AND SEMI HERMETICALLY SEALED COMPRESSOR. 26PRINCIPLE OF WORKING AND CONSTRUCTIONAL DETAILS. AIR COOLED AND WATER COOLED CONDENSER 27HEAT REJECTION RATIO,COOLING TOWER AND SPRAY PON 28PRINCIPLE OF WORKING AND CONSTRUCTIONAL DETAILS. AN EVAPORATOR, TYPES OF EVAPORATOR. 29BARE TUBE COIL EVAPORATOR, FINNED EVAPORATOR, SHI AND TUBE EVAPORATOR. 5	4	22	CLASSIFICATION OF REFRIGERANT COMPRESSOR, PRINCIPLE
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SIGNATURE OF FACULTY MEMBER

SIGNATURE OF H.O.D