Discipline : Mechanical Engg.	Semester : 4th	Name of the Teachnig Faculty : Mrs. Monalisha Be
Subject : Thermal Engineering-II	No.of days/Per weeks Class Alloted Weeks :4	SEMESTER FROM DATE:16/01/2024 TO DATE:26/04/2024
WEEK	CLASS DAY	THEORY
3RD WEEK JAN-2024	1 ST	Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency overall efficiency Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency overall efficiency
	2ND	Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficien overall efficiency Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency overall efficiency
	3RD	Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency overall efficiency Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency overall efficiency
	4TH	Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency overall efficiency Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency
4TH WEEK OF JAN-2024	1 5T	overall efficiency Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency overall efficiency
		Mean effective pressure & specific fuel consumption. Define air-fuel ratio & calorific value of fuel.
	2ND	Define mechanical efficiency, Indicated thermal efficiency, Relative Efficiency, brake thermal efficiency Mean effective pressure & specific fuel consumption Define air-fuel ratio & calorific value of fuel.
		Work out problems to determine efficiencies & specific for consumption

/	3RD	
		Work out problems to determine efficiencies & specific fuel consumption
•	4ТН	Work out problems to determine efficiencies & specific fuel consumption
		Work out problems to determine efficiencies & specific fuel consumption
1ST WEEK OF FEB-2024	157	Work out problems to determine efficiencies & specific fuel consumption
		Work out problems to determine efficiencies & specific fuel consumption
	2ND	Work out problems to determine efficiencies & specific fuel consumption
		Work out problems to determine efficiencies & specific fuel consumption
	3RD	Work out problems to determine efficiencies & specific fuel consumption
		Work out problems to determine efficiencies & specific fuel consumption
	4ТН	Work out problems to determine efficiencies & specific fuel consumption
		Work out problems to determine efficiencies & specific fuel consumption
	15T	Explain functions of compressor & industrial use of compressor air
		Classify air compressor & principle of operation.
	2ND	Classify air compressor & principle of operation.
2ND WEEK OF FEB-2024		Classify air compressor & principle of operation.
	3RD	Describe the parts and working principle of reciprocating Air compressor.
	4TH	Describe the parts and working principle of reciprocating Air compressor.
	1ST	Explain the terminology of reciprocating compressor such as bore, stroke, pressure ratio free air delivered &Volumetric
	2ND	Explain the terminology of reciprocating compressor such as
3RD WEEK OF FEB-2024	300	bore, stroke, pressure ratio free air delivered &Volumetric Derive the work done of single stage & two stage compresso
	3RD	with and without clearance.
	4TH	Derive the work done of single stage & two stage compresso with and without clearance.
	1ST	Solve simple problems (without clearance only)

4TH WEEK OF FEB-2024	2ND	Solve simple problems (without clearance only)
•	3RD	Solve simple problems (without clearance only)
	4ТН	Solve simple problems (without clearance only)
1ST WEEK OF MARCH- 2024	1ST	Difference between gas & vapours, Formation of steam.
	2ND	Representation on P-V, T-S, H-S, & T-H diagram.
	3RD	Definition & Properties of Steam.
	4TH	Use of steam table & mollier chart for finding unknown properties.
	1ST	Non flow & flow process of vapour,
2ND WEEK OF MARCH-	2ND	P-V, T-S & H-S, diagram.
2024	3RD	Determine the changes in properties & solve simple numerical.
	4TH	Determine the changes in properties & solve simple numerical.
	1.ST	Determine the changes in properties & solve simple numerical.
3RD WEEK OF MARCH-	2ND	Determine the changes in properties & solve simple numerical.
2024	3RD	Determine the changes in properties & solve simple numerical.
	4TH	Determine the changes in properties & solve simple numerical.
	1.ST	INTERNAL
4TH WEEK OF MARCH-	2ND	INTERNAL
2024	3RD	INTERNAL
	4711	INTERNAL
	ast	Classification & types of Boiler.
	SND	Important terms for Boiler.
1ST WEEK OF APRIL-2024	ЗRD	Comparison between fire tube & Water tube Boiler.
	4TH	Description & working of common boilers (Cochran, Lancashire, Babcock & Wilcox Boiler),5 Boiler Draught
	1ST	Boiler mountings & accessories.
	2ND	Carnot Cycle, Derive Expression for Work & Efficiency
2ND WEEK OF APRIL-2024	3RD	Representation in P-V, T-S & h-s diagram
	ATU	Effect of Various end conditions in Rankine cycle

	4111	
•	1ST	Reheat cycle & regenerative Cycle.
	2ND	
	ЗRD	Solve simple numerical on Carnot vapour Cycle & Rankine Cycle.
3RD WEEK OF APRIL-2024		Solve simple numerical on Carnot vapour Cycle & Rankine Cycle.
	4тн	Solve simple numerical on Carnot vapour Cycle & Rankine Cycle.
		Solve simple numerical on Carnot vapour Cycle & Rankine Cycle.
4TH WEEK OF APRIL-2024	1ST	Modes of Heat Transfer (Conduction, Convection, Radiation
	2ND	Fourier law of heat conduction and thermal conductivity (k).
		Newton's laws of cooling
	3RD	4 Radiation heat transfer (Stefan, Boltzmann & Kirchhoff's law) only statement, no derivation & no numerical problem.
	4TH	Black body Radiation, Definition of Emissivity, absorptivity, & transmissibility.

The of order