Discipline: Mechanical Engg.	Semester:6 ^{JH}	Name of the Teaching Faculty: BANESWAR MUNDA Designation: Workshop Superintendent
Subject:	No. of days/week	Semester From date: 14.02.2022 To date: 23.05.2023
Thermal Engg-II	class allotted:04	No. of weeks: 13
Week	Class Day	Theory/Practical Topics
		CHAPTER 01: Performance of I.C engine
	15.02.2023	Selection of Engine for a particular application
	16.02.2023	Indicated Power, Brake power, Friction Power
	17.02.2023	Fuel consumption, air consumption
1 ST	20.02.2023	Mechanical efficiency, Indicated thermal efficiency
	22.02.2023	Relative Efficiency, brake thermal efficiency, overall efficiency
		Mean effective pressure &specific fuel consumption.
2 ND	23.02.2023	Define air-fuel ratio & calorific value of fuel.
	24.02.2023	Work out problems to determine efficiencies & specific fuel
		consumption.
		CHAPTER 02: Air Compressor
3 RD	27.02.2023	Explanation of functions of compressor
	02.03.2023	Industrial and otheruse of compressor air
	03.03.2023	Classification of air compressor
	06.03.2023	Principle of operation of air compressor
	09.02.2023	Reciprocating and rotary compressor
4 TH	10.03.2023	Describe of the parts of reciprocating Air compressor.
	13.03.2023	Describe of the working principle of reciprocating Air compressor.
	15.03.2023	Explanation of terminology of reciprocating compressor such as bore,
	N-	stroke.
	16.03.2023	Explain the terminology of pressure ratio, free air delivered
5 TH		&Volumetric efficiency
	17.03.2023	Derivation of work done of single stage compressor with and without
		clearance.
	20.03.2023	Derivation of work done of two stage compressor with and without
	71 .	clearance.
	22.03.2023	Solve simple problems (without clearance only)
		CHAPTER 03: Properties of Steam
6 ^{тн}	23.03.2023	Steam, properties of Steam. and its use, formation of steam
	24.03.2023	Difference between gas & vapours.
	27.03.2023	Representation on P-V and T-S diagram.
7 TH	29.03.2023	Representation on H-S and T-H diagram.
	31.03.2023	Use of steam table for finding unknown properties.
	03.04.2023	Use of steam mollier chart for finding unknown properties.
	05.04.2023	Non flow & flow process of vapour.
	06.04.2023	Determine the changes in properties & solve simple numerical
8 TH	00.0-T.2023	CHAPTER 04: Steam Generator
	10.04.2023	Boiler and its Classification, Important terms for Boiler
	12.04.2023	Comparison between fire tube 2 Western L. D. II
	12.04.2023	Comparison between fire tube & Water tube Boiler, Description & working of Cochran Boiler

	13.04.2023	Description & working of Lancashire Boiler, Babcock & Wilcox Boiler
9 TH	17.04.2023	Deilar Draught Forced draught Induced & Dalanceu diaught
	19.04.2023	Boiler Mounting for safety(safety valve, pressure gauge, water level
		indicator fusible plug etc.)
	20.04.2023	Boiler Mounting for control(Pressure gauge, steam stop valve, feed
		check valve, blow off cock, man hole, mud box etc.)
	21.04.2023	Importance of boiler accessories like superheater, economizer, air pro
		heater, feed water pump
	24.04.2023	Importance of boiler accessories like steam injector, steam separator,
		steam trap etc.
10 TH		CHAPTER 05: Steam Power Cycles
	26.04.2023	Carnot cycle with vapour ,Derivation of work & efficiency of the cycle
	27.04.2023	Rankine cycle, Representation in P-V, T-S & h-s diagram, Work &
		Efficiency
	28.04.2023	Effect of Various end conditions in Rankine cycle.
	01.05.2023	Reheat cycle & regenerative Cycle.
	03.05.2023	Solve simple numerical on Carnot vapour cycle and Rankine Cycle.
11 TH	0010012020	CHAPTER 06: Heat Transfer
	08.05.2023	Modes of Heat Transfer (Conduction, Convection, Radiation).
	10.05.2023	Fourier law of heat conduction and thermal conductivity (k).
	11.05.2023	Newton's laws of cooling.
12 TH	12.05.2023	Radiation heat transfer
12	12.03.2023	Black body and its significance
	15.05.2023	Boltzmann & Kirchhoff's law of radiation
	17.05.2023	Black body Radiation, Definition of Emissivity.
	18.05.2023	Definition of absorptivity, & transmissibility.
	22.05.2023	Revision of whole subject.
13 TH	22.03.2023	TARLEY C
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