Lesson Plan

2023 (W)

Subject :- Element of mechanical engg. (Code) TH-3 Name of faculty:- Sarbeswar Rout

Semester :-3rd Class allotted 4p/w Branch :- Electrical engg

Discipline	Semester:-5th	From date:-01/08/23 To date:30/11/23	Teaching Aid
Subject:	No. of days/ per week 4p/w_____:	Theory/ Practical –Topics/Lesson	
Week	Date/Period		
1	01/08/23to 05/08/23	THERMODYNAICS: 1 . 1 State Unit of Heat and work, 1st law of thermodynamics. 1 . 2 State Laws of perfect gases 1 . 3 Determine relationship of specific heat of gases at constant volume and constant pressure	White board & marker
2	07/08/23 to 12/08/23	PROPERTIES OF STEAM: 2 . 1 Use steam table for solution of simple problem 2 . 2 Explain total heat of wet, dry and super heated steam	White board & marker
3	14/08/23 to 9/08/23	3 . 1 State types of Boilers 3 . 2 Describe Cochran, Babcock Wilcox boiler 3 . 3 Describe Mountings and accessories	White board & marker
4	21/08/23 to 6/08/23	STEAM ENGINES: 4.1 Explain the principle of Simple steam engine 4.2 Draw Indicator diagram	White board & marker
5	28/08/23 2/09/23	4.3 Calculate Mean effective pressure, IHP and BHP and mechanical efficiency.	White board & marker
6	04/09/23 to 09/09/23	4.4 Solve Simple problem	White board & marker
7	11/09/23 to 16/09/23	STEAM TURBINES: 5.1 State Types	White board & marker
8	18/09/23 to 23/09/23	5.2 Differentiate between impulse and reaction Turbine	White board & marker
9	25/09/23 to 30/09/23	CONDENSER: 6.1 Explain the function of condenser 6.2 State their types	White board & marker

10	03/10/23 to 07/10/23	I.C. ENGINE: 7.1 Explain working of two stroke and 4 stroke petrol and Diesel engines.	White board & marker
11	09/10/23 to 14/10/23	7.2 Differentiate between them	White board & marker
12	16/10/23 to 20/10/23	HYDROSTATICS: 8.1 Describe properties of fluid	White board & marker & smart board
13	30/10/23 to 04/11/23	8.2 Determine pressure at a point, pressure measuring Instruments	White board & marker
14	06/11/23 to 11/11/23	HYDROKINETICS: 9.1 Deduce equation of continuity of flow	White board & marker
15	13/11/23 to 18/11/23	9.2 Explain energy of flowing liquid 9.3 State and explain Bernoulli's theorem	White board & marker& smart board
16	20/11/23 to 25/11/23	HYDRAULIC DEVICES AND PNEUMATICS: 10.1 Intensifier 10.2 Hydraulic lift	White board & marker
17	28/11/23 to 30/11/23	10.3 Accumulator 10.4 Hydraulic ram	White board & marker

Signature of HOD

Signature of faculty