LESSON PLAN

ACADEMIC SESSION-WINTER 2023

3RD SEMESTER(B) W.E.F-01/08/2023 Total Period: - 60

SUBJECT- ELEMENTS OF MECHANICAL ENGINEERING (TH-3) Theory periods: 4 P/WEAKLY

TEACHER: - SONALI DAS (PTGF MECHANICAL ENGINEERING DEPT.)

SL NO	MONTH	Week	Date	UNIT NO/ PERIOD ALLOTED	Topic to be covered as per Syllabus	Topic actually covered as per Syllabus	Short fall if any/syllabus	remarks
1	SEP	4TH	1/8/2023	6	1. THERMODYNAICS, 1.1 State Unit of Heat and work. law of thermodynamics.			
2			2/8/2023		1. THERMODYNAICS, 1.1 State Unit of Heat and work. law of thermodynamics.			
3			4/8/2023		1.2 State Laws of perfect gases			
4			7/8/2023		1.2 State Laws of perfect gases			
5		5TH	8/8/2023		1.3 Determine relationship of specific heat of gasses at constant volume and constant pressure.			
6			9/8/2023		1.3 Determine relationship of specific heat of gasses at constant volume and constant pressure.			
7			11/8/2023	5	PROPERTIES OF STEAM 2.1 Use steam table for solution of simple problem			
8			14/8/2023		PROPERTIES OF STEAM 2.1 Use steam table for solution of simple problem			
9	OCT	3RD	15/8/2023		PROPERTIES OF STEAM 2.1 Use steam table for solution of simple problem			
10			16/8/2023		2.2 Explain total heat of wet, dry and superheated steam			
11			18/8/2023		2.2 Explain total heat of wet, dry and superheated steam			
12			21/8/2023	10	BOILERS 3.1 State types of Boilers			
13		4TH	22/8/2023		BOILERS 3.1 State types of Boilers			
14			23/8/2023		BOILERS 3.1 State types of Boilers			
15			25/8/2023		3.2 Describe Cochran, Babcock Wilcox boiler			
16			28/8/2023		3.2 Describe Cochran, Babcock Wilcox boiler			
17		5TH	29/8/2023 30/8/2023		3.2 Describe Cochran, Babcock Wilcox boiler			
18			1/9/2023 4/9/2023		3.3 Describe Mountings and accessories			
19	NOV	1ST	5/9/2023		3.3 Describe Mountings and accessories			
20			6/9/2023		3.3 Describe Mountings and accessories			
21			8/9/2023		3.3 Describe Mountings and accessories			
22			11/9/2023	10	STEAM ENGINES 4.1 Explain the principle of Simple steam engine			

23			12/9/2023		STEAM ENGINES 4.1 Explain the principle of Simple steam engine			
24			13/9/2023		4.2 Draw Indicator diagram			
25		2ND	15/9/2023		4.2 Draw Indicator diagram			
26			18/9/2023		4.3 Calculate Mean effective pressure, IHP and BHP and mechanical efficiency.			
27			19/9/2023		4.3 Calculate Mean effective pressure, IHP and BHP and mechanical efficiency.			
28		3RD	20/9/2023		4.3 Calculate Mean effective pressure, IHP and BHP and mechanical efficiency.			
29			22/9/2023		4.4 Solve Simple problem			
30			25/9/2023		4.4 Solve Simple problem			
31			26/9/2023		4.4 Solve Simple problem			
32			27/9/2023		STEAM TURBINES 5.1 State Types			
33		4TH	29/9/2023		STEAM TURBINES 5.1 State Types			
34			3/10/2023		STEAM TURBINES 5.1 State Types			
35			4/10/2023	6	5.2 Differentiate between impulse and reaction Turbine			
36		5TH	6/10/2023		5.2 Differentiate between impulse and reaction Turbine			
37			9/10/2023		5.2 Differentiate between impulse and reaction Turbine			
38		1ST	10/10/2023		CONDENSER 6.1 Explain the function of condenser			
39			11/10/2023	4	CONDENSER 6.1 Explain the function of condenser			
40			13/10/2023		6.2 State their types			
41		2ND	16/10/2023		6.2 State their types			
42			17/10/2023		IC ENGINE 7.1 Explain working of two stroke and 4 stroke petrol and Diesel engines.			
43	D E C		18/10/2023	4	IC ENGINE 7.1 Explain working of two stroke and 4 stroke petrol and Diesel engines.			
44		3RD	20/10/2023		7.2 Differentiate between them			
45			23/10/2023		7.2 Differentiate between them			
46			24/10/2023		HYDROSTATICS 8.1 Describe properties of fluid			
47			25/10/2023		HYDROSTATICS 8.1 Describe properties of fluid			
48			27/10/2023		8.2 Determine pressure at a point, pressure measuring Instruments			
49		4TH	30/10/2023	5	8.2 Determine pressure at a point, pressure measuring Instruments			
50			31/10/2023		8.2 Determine pressure at a point, pressure measuring Instruments			

51		5TH	01/11/2023	5	HYDROKINETICS 9.1 Deduce equation of continuity of flow			
52			03/11/2023		9.2 Explain energy of flowing liquid			
53			6/11/2023		9.2 Explain energy of flowing liquid			
54			7/11/2023		9.3 State and explain Bernoulli's theorem			
55	JAN	1ST	8/11/2023		9.3 State and explain Bernoulli's theorem			
56			10/11/2023	5	10. HYDRAULIC DEVICES AND PNEUMATICS, 10.1 Intensifier			
57		2ND	13/11/2023		10.2 Hydraulic lift			
58			14/11/2023		10.3 Accumulator			
59			15/11/2023		10.4 Hydraulic ram			
60			17/11/2023		10.4 Hydraulic ram			

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