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Lesson Plan

Name of faculty - Sagar K. Mohapatra

Sub code - TH.3

Sl.No.	Month	Module/Unit	Course to be covered	No. of classes	Remarks
01.	September	Chapter-1	THERMODYNAMICS	06	
		1.1	State unit of Heat and work, 1st law of thermodynamics.	02	
		1.2	State Laws of perfect gases.	02	
		1.3	Determine relationship of specific heat of gases at constant volume and constant pressure.	02	
02	September	Chapter-2	PROPERTIES OF STEAM	05	
		2.1	Use steam table for solution of simple problem.	01	
		2.2	Explain total heat of wet, dry and superheated steam.	04	
03.	October	Chapter-3	BOLLERS	10	
		3.1	State types of Boilers.	03	
		3.2	Describe Cochran, Babcock Wilcox boiler.	03	
		3.3	Describe Mountings and accessories.	04	
0.4	October.	Chapter-4	STEAM ENGINES	10	
		4.1	Explain the principle of Simple Steam Engine.	02	
		4.2	Draw Indicator diagram.	03	
		4.3	Calculate Mean effective pressure, IHP and BHP and mechanical efficiency.	05	
05.	November	Chapter-5	STEAM TURBINES:	06	
		5.1	State types.	02	
		5.2	Differentiate between impulse and reaction	04	
06.	November	Chapter-6	CONDENSER:	04	
		6.1	Explain the function of condenser.	02	
		6.2	State their types.	02	
07.	November	Chapter-7	I.C. ENGINE	04	
		7.1	Explain Working of two stroke and 4-stroke petrol and Diesel engines.	03	
		7.2	Differency bet ⁿ 2-stroke and 4-stroke engine.	01	
08.	December	Chapter-8	HYDROSTATICS		

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		8.1	Properties of fluid	02	
		8.2	Determine pressure at a point, pressure measuring Instruments	03	
09.	December	Chapter-9	HYDROKINETICS:	05	
		9.1	Deduce equation of Continuity of flow.	02	
		9.2	Explain energy of flowing liquid.	02	
		9.3	State and explain Bernoulli's theorem.	01	
10.	December	Chapter-10	HYDRAULIC DEVICES AND PNEUMATICS	05	
		10.1	Intensifier	02	
		10.2	Hydraulic lift.	01	
		10.3	Accumulator	01	
		10.4	Hydraulic ram.	01	