

Lesson Plan

Subject: **PSE** (Th -3)

Name of faculty: SARBESWAR ROUT

Semester: 6TH


Class allotted: 4p/week

Branch: Mechanical

Session: 2024(S)

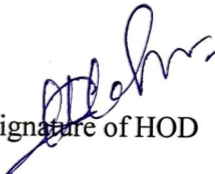
Discipline	Semester	From date:	To date:	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical –Topics/Lesson		
Week	Date/Period			
1	16/01/2024	Describe sources of energy		White Board Marker Smart board
	TO 20/01/2024	Explain concept of Central and Captive power station Classify power plants. Importance of electrical power in day today life.		
2	22/01/2024	Overview of method of electrical power generation.		White Board Marker Smart board
	TO 27/01/2024	THERMAL POWER STATIONS Layout of steam power stations. Steam power cycle. Explain Carnot vapour power cycle with P-V, T-s diagram .		
3	29/02/2024	Explain Rankine cycle with P-V, T-S & H-s diagram		White Board Marker Smart board
	TO 03/02/2024	determine thermal efficiency, Work done, work ratio, and specific steam Consumption. Solve Simple Problems. Numerical problem		
4	05/02/2024	Solve Simple Problems.		White Board Marker Smart board
	TO 10/02/2024	Solve Simple Problems. Solve Simple Problems. Solve Simple Problems.		



Signature of HOD


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Week	Date/Period	Theory/ Practical –Topics/Lesson	Teach Aid
5	12/02/2024 TO 17/02/2024	List of thermal power stations in the state with their capacities. Boiler Accessories Operation of Air pre heater Operation of Economiser	White Board Marker Smart board
6	19/02/2024 TO 24/02/2024	Operation of super heater Need of boiler mountings Classify nuclear fuel (Fissile & fertile material) Explain fusion and fission reaction.	White Board Marker Smart board
7	26/02/2024 TO 02/03/2024	Explain working of nuclear power plants with block diagram . Explain the working and construction of nuclear reactor Compare the nuclear and thermal plants. Explain the disposal of nuclear waste.	Marker White Board
8	04/03/2024 TO 09/03/2024	Selection of site for nuclear power stations. List of nuclear power stations.. Diesel electric power stations: State the advantages and disadvantages of diesel electric power stations	White Board Marker Smart board
9	11/03/2024 TO 16/03/2024	Explain briefly different systems of diesel electric power stations Fuel storage and fuel supply system, Fuel injection system, Air supply system Exhaust system, cooling system, Lubrication system, starting system, governing system.	White Board Marker Smart board
10	18/03/2024 TO 23/03/2024	Selection of site for diesel electric power stations. Difference between static Performance and thermal efficiency of diesel electric power stations. Hydel power stations State advantages and disadvantages of hydroelectric power plant.	Marker White Board Smart board
11	27/03/2024 TO 30/03/2024	Classify and explain the general arrangement of storage type hydroelectric project Selection of site of hydel power plant. List of hydro power stations with their capacities and number of units in the state. Types of turbines and generation used..	White Board Marker Smart board
12	02/04/2024 TO 06/04/2024	Simple problems. Simple problems. Simple problems. Simple problems..	Marker White Board Smart board

13.	08/04/2024 TO 13/04/2024	Gas turbine power stations. Selection of site for gas turbine stations. Fuels for gas turbine, Merits, demerits and application of gas turbine power plants. . Elements of simple gas turbine power plants	White Board Marker Smart board
14	15/04/2024 TO 20/04/2024	Revision	White Board Marker Smart board
15	22/ 04/2024 TO 26/04/2024	Revision	White Board Marker Smart board


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