LESSON PLAN-(SUMMER-2022)
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline- MECHANICAL	Semester-6TH	Name of teaching faculty- MR. A. Parida
Subject- POWER STATION ENGG.	No of days/ per week class alloted-4	SEM From date- 10.03.2022 No of weeks- 15
WEEK	Class day	Theory Topics
Week-1	16.01.2024	CH1-Describe sources of energy
	17.01.2024	Explain concept of Central and Captive power stati
	18.01.2024	Classify power plants.
	22.01.2024	Importance of electrical power in day today life.
Week-2	23.01.2024	Overview of method of electrical power generation.
	25.01.2024	REVISION OF TOPIC PREVIOUSLY TAUGHT
	29.01.2024	CH-2Layout of steam power stations.
	30.01.2024	Steam power cycle. Explain Carnot vapour power cy diagram and determine thermal efficiency.
Week-3	31.01.2024	Explain Rankine cycle with P-V, T-S & H-s diagram
	01.02.2024	determine thermal efficiency, Work done, work ratio, steam Consumption
	02.02.2024	Solve Simple Problems.
	05.02.2024	List of thermal power stations in the state with their c
Week-4	06.02.2024	Boiler Accessories: Operation of Air pre heater, Oper Economiser
	08.02.2024	Operation Electrostatic precipitator and Operation of Need of boiler mountings and operation of boiler
	09.02.2024	Draught systems (Natural draught, Forced draught & I draught) with their advantages & disadvantages.
	12.02.2024	Steam prime movers: Advantages & disadvantages of
Week-5	13.02.2024	Elements of steam turbine, governing of steam turbine of steam turbine:
	16.02.2024	Explain Thermal efficiency, Stage efficiency and Gros
	19.02.2024	Steam condenser: Function of condenser, Classificatio
	21.02.2024	function of condenser auxiliaries such as hot well, con extraction pump, air extraction pump, and circulating
Week-6	22.02.2024	Cooling Tower: Function and types of cooling tower, a
	24.02.2024	Selection of site for thermal power station
	26.02.2024	REVISION OF TOPIC PREVIOUSLY TAUGHT
	27.02.2024	CH1 & CH-2 CLASS TEST
Week-7	28.02.2024	CH-3 Classify nuclear fuel (Fissile & fertile material)
	29.02.2024	Explain fusion and fission reaction.
	01.03.2024	Explain working of nuclear power plants with block di
	04.03.2024	Explain the working and construction of nuclear reacto
	05.03.2024	Compare the nuclear and thermal plants.

Week-8	11.03.2024	Selection of site for nuclear power
	13.03.2024	REVISION OF TOPIC PREVIOUSLY TAUGHT
Week-9	14.03.2024	CH-4 State the advantages and disadvantages of diesel electric power stations.
	15.03.2024	Explain briefly different systems of diesel electric power stations: Fuel storage and fuel supply system
	18.03.2024	Fuel injection system, Air supply system,
	20.03.2024	Exhaust system, cooling system
Week-10	21.03.2024	Lubrication system, starting system, governing system
	22.03.2024	Selection of site for diesel electric power stations
	27.03.2024	Performance and thermal efficiency of diesel electric power stations
	28.03.2024	REVISION OF TOPIC PREVIOUSLY TAUGHT
Week-11	29.03.2024	CH-5 State advantages and disadvantages of hydroelectric power plant
	30.03.2024	Classify and explain the general arrangement of storage type hydroelectric project and explain its operation
	01.04.2024	Selection of site of hydel power plant.
	03.04.2024	List of hydro power stations with their capacities and number of un in the state.
Week-12	04.04.2024	Types of turbines and generation used
	08.04.2024	Simple problems.
	09.04.2024	REVISION OF TOPIC PREVIOUSLY TAUGHT
	10.04.2024	CH-6 Selection of site for gas turbine stations.
Week-13	11.04.2024	Fuels for gas turbine
	12.04.2024	Elements of simple gas turbine power plants
	15.04.2024	Merits, demerits and application of gas turbine power plants
	16.04.2024	REVISION OF TOPIC PREVIOUSLY TAUGHT
Week-14	19.04.2024	CH-1 REVISION & IMP QUESTION DISCUSSION
	20.04.2024	CH-2 REVISION & IMP QUESTION DISCUSSION
	22.04.2024	CH-3 REVISION & IMP QUESTION DISCUSSION
	23.04.2024	CLASS TEST
Week-15	24.04.2024	CH-4 REVISION & IMP QUESTION DISCUSSION
	25.04.2024	CH-5 & 6 REVISION & IMP QUESTION DISCUSSION
	26.04.2024	CLASS TEST

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