


LESSON PLAN SUMMER-2022


SUBJECT-POWER STATION ENGINEERING SEM-6th BRANCH- MECHANICAL ENGG.

SL NO	DATE	CHAPTER	TOPIC NAME	NO OF PERIOD
1	15.3.22	Introduction CHAP-01	Introduction to syllabus.	1
2	17.3.22		Describe sources of energy	1
3	21.3.22		Explain concept of Central and Captive power station	1
4	22.3.22		Overview of method of electrical power generation	1
5	24.3.22		Classify power plants, Importance of electrical power in day to day life	1
6	25.3.22		Thermal Power Station CHAP-02	Layout of steam power plant
7	28.3.22	Steam power cycle, Explain Carnot vapour power cycle with P-V, T-s diagram and		1
8	29.3.22	Explain Rankine cycle with P-V, T-S & H-s diagram		1
9	31.3.22	determine thermal efficiency, Work done, work ratio, and specific steam consumption.		1
10	4.4.22	problem practice		1
14	5.4.22	Explain reheat cycle		1
15	7.4.22	Boiler Accessories: Air pre heater, Economiser, Electrostatic		1
16	8.4.22	Draught systems (Natural draught, Forced draught & balanced draught) with their advantages & disadvantages.		1
18	11.4.22	Steam prime movers, Advantages & disadvantages of steam turbine, Elements of steam turbine		1
19	12.4.22	Compounding of steam turbine.		1
20	18.4.22	governing of steam turbine.		1
21	19.4.22	and Gross efficiency		1
22	21.4.22	Operation of Economiser, Operation		1
23	22.4.22	Electrostatic precipitator and Operation of super heater		1
24	25.4.22	(explain jet and surface condensers)		1
25	26.4.22	Operation of Electrostatic precipitator		1
26	28.4.22	Operation of super heater		1
27	29.4.22	air extraction pump, cooling water and circulating pump.		1
28	2.5.22	Cooling Tower: Function and types of cooling tower,		1
29	5.5.22	Describe the various types of cooling tower (Natural draft cooling)		1
30	6.5.22	Nuclear Power Station CHAP-03	Classify nuclear fuel (Fissile & fertile material)	1
31	9.5.22		Explain fusion and fission reaction	1
32	1.5.22		fuel, moderator, reflector,	1
33	12.5.22		Components of nuclear reactor such as fuel, moderator, reflector	1
34	13.5.22		coolant, control rod, Shielding, reactor vessel & their function	1
35	17.5.22		Explain the working principle of PWR power plant	1
36	19.5.22		comparison between BWR & PWR	1
37	20.5.22		Compare the nuclear and thermal plants	1
38	23.5.22		Explain the disposal of nuclear waste	1
39	24.5.22		Diesel Electric Power Station CHAP-04	State the advantages and disadvantages of diesel plant
40	26.5.22	Explain briefly different systems of diesel power plant		1
41	27.5.22	Fuel storage and fuel supply system, Fuel injection system, Air supply		1

42	31.5.22	Hydel Power Station CHAP-05	working of diesel power plant	1
43	2.6.22		system,Governing system	1
44	3.6.22		State advantages and disadvantages of hydroelectric powerplant	1
45	6.6.22		CONTI..	1
46	7.6.22		CONTI..	1
47	9.6.22		Classify and Explain the general arrangement of storagetype Hydro	1
48	10.6.22		CONTI..	1
49	13.6.22	GAS TURBINE POWER STATIONS CHAP-6	selection of site for gas turbine station,fuels for gas turbine	1
50	14.6.22		CONTI..	1
51	16.6.22		CONTI..	1
52	17.6.22		elements of simple gas turbine power plants	1
53	20.6.22		ts ,demerits and application of gas turbine power plants	1
54	21.6.22			REVISION
55	23.6.22		RIVISION	1
56	24.6.22		RIVISION	1
57	27.6.22		RIVISION	1
58	28.6.22		RIVISION	1

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