

Academic Session:-2022-2023 (S)

Subject:- POWER STATION ENGINEERING
Subject Code:- TH-3

Total Period:- 60 Per Semester

Teacher:- ER. RIZWANA SULTANA (GUEST
FACULTY
,DEPT. OF MECH ENGINEERING)

Theory:- 4p/week

SEMESTER:- 6th

MONTH	WEEK	DATE/PERIOD	SYLLABUS TO BE COVERED	SYLLABUS ACTUALLY COVERED	SHORT FALL	SIGNATURE
FEBRUARY	3RD	15-02-2023	1.1 INTRODUCTION			
		15-02-2023	1.1 Describe source of energy			
	4TH	20-02-2023	1.2 Explain the concept of central & captive power station			
		22-02-2023	1.3 Classify power plants			
		22-02-2023	1.4 Importance of electric power in day today life			
		25-02-2023	1.5 Overview of method of electrical power generation			
	5TH	27-02-2023	2.0 Thermal Power Station			
MARCH	1ST	01-03-2023	2.1 Layout of steam power stations			
		01-03-2023	2.2 Steam Power Cycle			
		04-03-2023	2.3 Explain carnot vapour power with PV, T-S diagram and determine thermal efficiency			
	2ND	06-03-2023	2.4 Explain rankine cycle with P-V,T-S			
		11-03-2023	2.5 And H-S diagram and determine thermal efficiency, workdone work ratio			
	3RD	13-03-2023	2.6 Solve simple problems on above			
		15-03-2023	2.7 List of thermal power stations in the state with capacities			
		15-03-2023	2.8 Boiler Accessories: Operation of air pre-heater, operation of economiser, ESP & superheater			

		18-03-2023	2.9 Need of boiler mounting and operation of boiler			
	4TH	20-03-2023	2.10 Draught system , natural draught, forced draught & balanced draught			
		22-03-2023	2.11 Advantages and disadvantages of draught			
		22-03-2023	2.12 Steam prime mover: Advantages & Disadvantages of steam turbine			
		25-03-2023	2.13 Elements of steam turbine, governing of steam turbine & their performance			
		27-03-2023	2.14 Explain thermal efficiency : Stage and			
	5TH	29-03-2023	2.15 Steam condenser: Function and classification of Condenser			
		29-03-2023	2.16 Cooling Tower: Function & its types, spray ponds			
		03-04-2023	2.17 Selection of site for thermal power station			
APRIL	2ND	05-04-2023	3.0 Nuclear Power Station			
		05-04-2023	3.1 Classify Nuclear Fuel & explain fusion fission reaction			
		08-04-2023	3.2 Explain working of Nuclear Power Plant with block diagram			
		10-04-2023	3.3 Construction of Nuclear reactor			
	3RD	12-04-2023	3.4 Compare the nuclear & power plants			
		12-04-2023	3.5 Selections of site for nuclear power stations			
		15-04-2023	3.6 List of Nuclear Power Stations			
		17-04-2023	4.0 Diesel Electric Power Stations			
	4TH	19-04-2023	4.1 State the advantages and disadvantages of Diesel Electric Power Stations			
		19-04-2023	4.2 Explain briefly different systems of diesel electric power stations: Fuel storage, supply & injection system			
		22-04-2023	4.3 Air supply system, Exhaust system, Cooling, Lubrication, Starting, Governing System			
		24-04-2023	4.4 Selection of site for diesel electric power stations			
	5TH	26-04-2023	4.5 Performance & thermal efficiency of diesel electric power stations			

	31st	26-04-2023	5.0 Hydel Power Stations			
		29-04-2023	5.1 State advantages & disadvantages of hydro electric power			
MAY	1ST	01-05-2023	5.2 Classify & explain the general arrangement of storage type hydroelectric project			
		03-05-2023	5.3 Explain the operation of hydroelectric project			
		03-05-2023	5.4 Selection site of hydel power plant			
		06-05-2023	5.5 List of hydro power stations			
	2ND	08-05-2023	5.6 List the capacities & number of units in the state			
		10-05-2023	5.7 Types of turbines & generations used			
		10-05-2023	5.8 Simple problems			
		13-05-2023	6.0 Gas Turbine Power Stations			
	3RD	15-05-2023	6.1 Selection of site for gas turbine stations			
		17-05-2023	6.2 Fuels for gas turbine			
		17-05-2023	6.3 Elements for simple gas turbine power plants			
		20-05-2023	6.4 Merits, demerits & application of gas turbine power stations			
	4TH	22-05-2023	REVISION			

CS CamScanner
Poojiana Sultana