	Semester : 4TH	Name of The Teaching Faculty:
Discipline : MECHAN ENGG.		ER.SUSANTA KU. TRIPATHI
Subject: PSE	No Of Days/Week Class Allotted	Semester From : 16.01.2024 To 26.04.2024
PSE	04	No. Of Weeks: 15
WEEKS	CLASS DAY	THEORY
16.01.2024	1 st	Describe sources of energy
то	2 nd	Explain concept of Central and Captive power station
20.01.2024	3 rd	Classify power plants
22.01.2024	1 st	Importance of electrical power in day today life
то	2 nd	NETAJI JAYANTI
27.01.2024	3 rd	Overview of method of electrical power generation
	4 th	REPUBLIC DAY
29.01.2024	1 st	Introduction to thermal power stations Layout of steam power stations
то	2 nd	Component of Steam power cycle.
03.02.2024	3 rd	Explain Carnot vapor power cycle with P-V, T-s diagram
	4 th	Steam power cycle and determine thermal efficiency
05.02.2024	1 st	Explain Rankin cycle with P-V, T-S & H-s diagram
то	2 nd	Rankin cycle thermal efficiency,
10.02.2024	3 rd	Work done, work ratio, and specific steam Consumption.
	4 th	List of thermal power stations in the state with their capacities
12.02.2024TC	1 st	Boiler Accessories: Operation of Air pre heater, Operation of Economizer,
17.02.2024		Operation
	2 nd	Electrostatic precipitator and Operation of super heater. Need of boiler mountings and operation of boiler
	3 rd	Draught systems (Natural draught, Forced draught & balanced draught) with their advantages & disadvantages.
	4 th	Definition of Steam prime movers
19.02.2024	1 st	Advantages & disadvantages of steam turbine, Elements of steam turbine,
TO 24.02.2024	2 nd	governing of steam turbine. Performance of steam turbine: Explain
	3 rd	Thermal efficiency, Stage efficiency and Gross efficiency.
	4 th	Steam condenser: Function of condenser.
26.02.2024	1 st	Classification of condenser
TO	2 nd	function of condenser auxiliaries such as hot well, condenser extraction
02.03.2024	_	pump, air extraction pump, and circulating pump.
	3 rd	Cooling Tower: Function and types of cooling tower, and spray ponds
	4 th	Selection of site for thermal power stations.
04.03.2024	1 st	Introduction to nuclear power stations
TO	2 nd	PANCHAYAT RAJ DIVAS
09.03.2024	3 rd	Classify nuclear fuel (Fissile & fertile material
	4 th	MAHA SIVA RATRI
	1 st	Explain fusion and fission reaction
11.03.2024	2 nd	Explain working of nuclear power plants with block diagram
TO	3 rd	Explain the working and construction of nuclear reactor
16.03.2024	4 th	Compare the nuclear and thermal plants
18.03.2024	1 st	Explain the disposal of nuclear waste
	1 -	i circos e contra de

23.03.2024	3 rd	List of nuclear power stations.
	4 th	Introduction to diesel electric power stations
25.03.2024	1 st	DOLO PURNIMA
то	2 nd	HOLI
30.03.2024	3 rd	State the advantages and disadvantages of diesel electric power stations
	4 th	GOOD FRIDAY
01.04.2024	1 st	UTKAL DIVAS
TO 06.04.2024	2 nd	Explain briefly different systems of diesel electric power stations: Fuel storage and fuel supply system
	3 rd	Fuel injection system, Air supply system
	4 th	Exhaust system, cooling system, Lubrication system, starting system, governing system.
08.04.2024	1 st	Selection of site for diesel electric power stations.
то	2 nd	Performance and thermal efficiency of diesel electric power stations.
13.04.2024	3 rd	ID UL FITRE
	4 th	State advantages and disadvantages of hydroelectric power plant
15.04.2024 TO	1 st	Classify and explain the general arrangement of storage type hydroelectric project and explain its operation
20.04.2024	2 nd	Selection of site of hydel power plant. List of hydro power stations with their capacities and number of units in the state
	3 rd	Types of turbines and generation used and simple problem.
	4 th	Selection of site for gas turbine stations
22.04.2024	1 st	Fuels for gas turbine and Elements of simple gas turbine power plants
то	2 nd	Merits, demerits and application of gas turbine power plants
27.04.2024	3 rd	Revision of chapter
	4 th	Discussion previous year question
		CLOSING OF ATTENDANCE

