Discipline :- Mechanical

Semester :- 6th

Name of the Faculty :- Er. Suresh Kumar Choudhary

Subject :- PSE

No. of Days/ Class Alloted :- 05

Semester from :- 14/02/23 To :- 23/05/23.

Week	class Day	Theory Topics.
	1st	Describe Sources of energy
14th Feb	2nd	Explain concept of Central
TO		& captive Power Station
17th Feb	3rd	Classify Power Plant.
	4th	—— Maha Shiva Ratri ——
	1st	Importance of electrical power
		in day to day life.
20th Feb	2nd	overview method of electrical
TO		Power generation.
25th Feb	3rd	Layout of Steam Power Stations
	4th	Describe Steam Power cycle
	5th	Explain Carnot cycle with
		P-V & T-S Diagram
	1st	Explain Rankine cycle with
27th Feb		p-V, T-S & H-S Diagram &
TO		Determine thermal efficiency
04th march	2nd	Discuss about work done, work
		ratio & specific Steam Consumption
	3rd	Solved Some numericals on it.
	4th	Discuss about thermal power
		Stations in the State with
		their capacities.
	5th	Boiler Accesories & operation of
		Air Preheater
06th march	1st	Operation of Economiser.
TO	2nd	—— Dolo purnima ——
11th march	3rd	—— Holi ——
	4th	Operation of Electrostatic
		Precipitator.

Week	Class Day	Theory Topics
	5th	Operation of Super heater
	1st	Need of Boiler mountings
1 13th march		& operation of Boiler
TO	2nd	Natural Draught & Forced
2 18th march		draught with advantage &
		Disadvantage
	3rd	Advantage & Disadvantage
		of Steam turbine.
	4th	Elements of Steam turbine
		& governing of Steam turbine
	5th	Performance of Steam turbine
	1st	Explain: Thermal efficiencies,
20th march		Stage efficiency & Gross
TO		efficiency
25th march	2nd	Function & classification of
		condenser:
	3rd	function of condenser,
		Auxiliaries such hot well,
		condenser extraction pump.
	4th	Function of air extraction
		pump & circulating pump.
	5th	cooling tower function &
		types.
	1st	selection of site for thermal
27th march		power station
TO	2nd	— Ram Navami —
01st April	3rd	classify nuclear fuel i.e.
		Fissile & Fertile material

Week	Class Day	Theory TOPICS
	4th	—— Utkal Divas ——
	1st	Explain Fusion & Fission reaction
3rd April	2nd	Explain Working of nuclear
TO		power plants with block Diagram
8th April	3rd	Explain the working & construction of nuclear reactor.
	4th	Compare nuclear & thermal Power plants.
	5th	Explain the Disposal of nuclear waste.
	1st	Selection of Site for nuclear
10th April		power Stations & list of it.
TO	2nd	State the advantage &
15th April		Disadvantages of diesel
		electric power Station.
	3rd	Explain briefly systems of
		diesel electric power Stations.
	4th	—— Maha Visuba Sankranti ——
	5th	Fuel Storage & Fuel supply
		System.
	1st	Fuel injection system & Air
17th April		supply System.
TO	2nd	Exhaust system & cooling System
22nd April	3rd	Lubrication System & Starting
		System.
	4th	Discuss on governing system.
	5th	—— I D - U I - Eitre ——

Week	Class, Day	Theory TOPICS.
	1st	Selection of Site for Diesel
24th April		Power Station
TO	2nd	Performance of Diesel electric
29th April		power stations.
	3rd	Thermal efficiency of Diesel power
	4th	classify & explain general
		arrangement of hydroelectric
	5th	Selection of Site For hydel
	1st	List of hydro power station
01st may	2nd	Types of turbines & generation
TO	3rd	Solved Problems
06th may	4th	Selection Site for gas turbine
	5th	Fuels For gas turbine
	1st	Elements of simple gas turbine
8th may		power plant.
TO	2nd	Merits of gas turbine
13th may	3rd	Demerit of gas turbine
	4th	APPlication of gas turbine
	5th	Continue
	1st	Solved numerical on otto cycle
15th may	2nd	Solved numerical on Rankine cycle
TO	3rd	Revision
20th may	4th	—— Sabitri Amabasya ——
	5th	Discussed long type question
22nd may	1st	Discussed short type question
TO	2nd	Discussed important question
26th may		for sem exam.

Seen

12/02/23