

# LESSION PLAN(WEF 16.01.2024 to 26.04.2024)

Discipline : Mechanical Engg.	Semester : 6th	Name of the Teachnig Faculty : Mrs. Monalisha Behera
Subject : Power Plant Engineering	No.of days/Per weeks Class Alloted Weeks : 4	SEMESTER FROM DATE:16/01/2024 DATE:26/04/2024 TO
Weeks	Class day	Theory
3RD WEEK JAN- 2024	1ST	Describe sources of energy, Explain concept of Central and Captive power station
	2ND	Classify power plants, Importance of electrical power in day today life.
	3RD	Overview of method of electrical power generation
	4TH	Layout of steam power stations.
4TH WEEK OF JAN- 2024	1ST	Steam power cycle. Explain Carnot vapour power cycle with P-V, T-s diagram and
	2ND	Steam power cycle. Explain Carnot vapour power cycle with P-V, T-s diagram and
	3RD	determine thermal efficiency. 2.3 Explain Rankine cycle with P-V, T-S & H-s diagram and determine thermal efficiency,
	4TH	Work done, work ratio, and specific steam Consumption
1ST WEEK OF FEB- 2024	1ST	2.4 Solve Simple Problems.
	2ND	2.4 Solve Simple Problems.
	3RD	2.4 Solve Simple Problems.
	4TH	List of thermal power stations in the state with their capacities. 2.6 Boiler Accessories: Operation of Air pre heater, Operation of Economiser, Operation
2ND WEEK OF FEB- 2024	1ST	Electrostatic precipitator and Operation of super heater. Need of boiler mountings
	2ND	operation of boiler,Draught System(Natural/Forced/balanced Draught Sysstem)
	3RD	advantages & disadvantages. 2.8 Steam prime movers: Advantages & disadvantages of steam turbine. Elements of steam turbine, comparison of

2024	3RD	disadvantages of steam turbine, Elements of steam turbine, governing of steam turbine. Performance of steam turbine: Explain Thermal
	4TH	advantages & disadvantages. 2.8 Steam prime movers: Advantages & disadvantages of steam turbine, Elements of steam turbine, governing of steam turbine. Performance of steam turbine: Explain Thermal
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2ND WEEK OF MARCH-2024	1ST	Classify nuclear fuel (Fissile & fertile material)
	2ND	Explain fusion and fission reaction, Explain working of nuclear power plants with block diagram
	3RD	
	4TH	
3RD WEEK OF MARCH-2024	1ST	Explain the working and construction of nuclear reactor .
	2ND	
	3RD	
	4TH	
4TH WEEK OF MARCH-2024	1ST	INTERNAL
	2ND	INTERNAL
	3RD	INTERNAL
	4TH	INTERNAL
1ST WEEK OF APRIL-2024	1ST	Compare the nuclear and thermal plants.
	2ND	
	3RD	Explain the disposal of nuclear waste.
	4TH	Compare the nuclear and thermal plants.
2ND WEEK OF APRIL-2024	1ST	Compare the nuclear and thermal plants.
	2ND	Selection of site for nuclear power stations.
	3RD	List of nuclear power stations.
	4TH	List of nuclear power stations.

3RD WEEK OF APRIL-2024	1ST	3 Selection of site for diesel electric power stations
	2ND	Performance and thermal efficiency of diesel electric power stations.
	3RD	Performance and thermal efficiency of diesel electric power stations.
	4TH	Classify and explain the general arrangement of storage type hydroelectric project and explain its operation
4TH WEEK OF APRIL-2024	1ST	Classify and explain the general arrangement of storage type hydroelectric project and explain its operation
	2ND	Classify and explain the general arrangement of storage type hydroelectric project and explain its operation
	3RD	Classify and explain the general arrangement of storage type hydroelectric project and explain its operation
	4TH	Selection of site of hydel power plant.

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16/01/2024