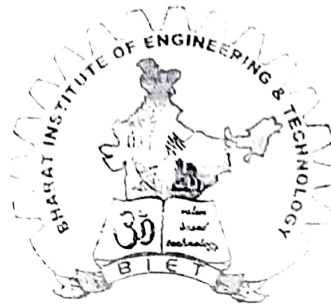


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

SIVARAM VIHAR, GHATAKESWAR HILLS
MOHADA, BERHAMPUR (GM.)



STUDENT'S ATTENDANCE REGISTER

Time	9.55	10.45			
Day	10.45	11.35			
TUE		✓			
WED		✓			
THU	✓				
FRI		✓			

Year/ Session [2023 (S)]

2023 13.2.23 to 23.05.23

Semester & Branch

6th Sem, Mechanical Engg

Subject with Code

Power station Engg, TH-3

Name of the Faculty Member

Pradyumna mehanana.

B.I.E.T., COURSE PLAN

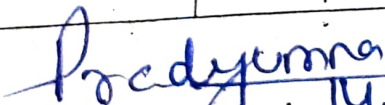
Month	Week	Class Day	Theory/ Practical Topic
<u>FEB</u>	3rd	14.2.23	<u>CH-1</u> <u>INTRODUCTION</u> ⇒ Describe source of energy
		15.2.23	Explain concept of Central and captive power stations
		16.2.23	classify power plants
		17.2.23	importance of electrical power in day today life
	4th	21.2.23	Overview of method of electrical power generation
		22.2.23	Assignment given to student
		23.2.23	practice previous year Questions.
	4th	24.2.23	<u>CH-2</u> <u>THERMAL POWER STATION</u> Layout of steam power station
	5th	28.2.23	Steam power cycle, explain Carnot vapour cycle with P-V, T-S, h-s diagram, thermal efficiency.

Signature of the Faculty: 16.2.23

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Month	Week	Class Day	Theory/Practical Topic
MARCH	1st	1.3.23	Explain Rankine Cycle with PV, TS, hs diagram thermal efficiency, work done, specific steam consumption.
		2.3.23	Solve numerical problems
		3.3.23	List of thermal power station in the state with their characteristics.
	2nd	9.3.23	Boiler accessories
		10.3.23	Draught system Natural, Mechanical balanced draught Advantage and disadvantage
	3rd	14.3.23	Steam prime movers advantage and disadvantage elements of steam turbine


 Signature of the Faculty: 14.3.23


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Month	Week	Class Day	Theory/Practical Topic	
March	3rd		governing of steam turbine performance → Thermal efficiency stage and gross efficiency	
		15.3.23	Steam Condenser, Function classification, Condenser auxiliaries	
		16.3.23	cooling tower, Function types of Cooling tower & spray ponds.	
			17.3.23	selection of site for thermal power stations.
	4th		21.3.23	Assignments given to student.
			22.3.23	practice previous year Questions.
			23.3.23	<u>NUCLEAR</u> ^{CH-3} <u>POWER STATION</u> clarify nuclear fuel.
		24.3.23	Explain Fusion and fission reaction.	

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Month	Week	Class Day	Theory/Practical Topic
MARCH	5th	28.3.23	Explain working of nuclear power plant with block diagram.
		29.3.23	Explain the working and construction of nuclear reactor.
		31.3.23	Compare the nuclear and thermal plants.
APRIL	2nd	4.4.23	Explain the disposal of nuclear waste.
		5.4.23	Selection of site for nuclear power station
		6.4.23	List of nuclear power stations
	3rd	11.4.23	Assignment given to student
		12.4.23	practice previous year Questions.

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Signature of the Faculty: 12.4.23

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Month	Week	Class Day	Theory/Practical Topic
APRIL	3rd	13.4.23	<u>CH-4</u> <u>DIESEL ELECTRIC POWER STATION</u> → state advantage and disadvantage of diesel electric power station.
		18.4.23	Explain briefly different systems of diesel electric power stations.
		19.4.23	Selection of site for diesel electric power station
		20.4.23	Performance and thermal efficiency of diesel electric power stations.
	4th	21.4.23	Assignments given to student
	5th	25.4.23	practice previous year Questions.

Signature of the Faculty: Pradyumn
13.4.23

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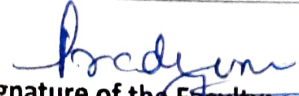
Month	Week	Class Day	Theory/Practical Topic
APRIL	5 th	26.4.23	<p style="text-align: center;"><u>CH-5</u> <u>HYDEL POWER STATION</u></p> <p>⇒ State advantage and disadvantage of hydroelectric power plant</p>
		27.4.23	<p>Classify and explain the general arrangement of storage type hydroelectric project and explain its operations.</p>
		28.4.23	<p>Selection of site of hydroelectric power plant.</p>
MAY	1 st	2.5.23	<p>List of hydro power stations with their capacities and number of units in the state</p>


Signature of the Faculty: Pradyumna
2.5.23

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Month	Week	Class Day	Theory/Practical Topic
MAY	2nd	3.5.23	Types of turbines and generation used.
		4.5.23	Simple problems
		9.5.23	Assignments given to student.
		10.5.23	practice previous year Questions.
		11.5.23	<u>CH-6</u> <u>GAS TURBINE POWER STATION</u>
			⇒ Selection of site for gas turbine stations.
3rd	12.5.23	Fuels for gas turbine	
	16.5.23	Elements of simple gas turbine power plants.	

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16.5.23

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Month	Week	Class Day	Theory/Practical Topic
MAY	3rd	17.5.23	Merits, demerits and applications of gas turbine power plants
		18.5.23	Assignment given to student.
	4th	23.5.23	practice previous year Questions.

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of the Faculty
23.5.23

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