

KIIT POLYTECHNIC, BHUBANESWAR

LESSON PLAN

Session (2023-2024)

Discipline: Mechanical Engineering	Semester: 6 th , Summer/2024	Name of the Teaching Faculty: Prasant Kumar Patra, Lecturer Email ID: pkpatrafme@kp.kiit.ac.in
Subject: Power Station Engineering Lab, Practical-2	No. of Days/Week: 02	Start Date: 16/01/2024 End Date: 26/04/2024

Week	Class Day	Theory/Practical Topics
1st	1st	Laboratory Visit and familiarize with laboratory. Understanding Laboratory instructions and safety rules.
	2nd	Study of modern steam power plant. (Theoretical explanation of Thermal power plant Fuels, Components, and layout of plant)
2nd	1st	Sketching steam power plant layout and understanding the location and function of different components of steam power plant.
	2nd	Study of modern steam power plant. (Demonstration)
3rd	1st	Viva, Report writing & Evaluation
	2nd	Theoretical explanation and Demonstration of Cochran boiler
4th	1st	Study on Cochran boiler
	2nd	Theoretical explanation and Demonstration of Babcock & Wilcox boiler.
5th	1st	Study on Babcock & Wilcox boiler.
	2nd	Viva, Report writing & Evaluation
6th	1st	Study on Cornish & Lancashire boiler.
	2nd	Theoretical explanation on Jet & Surface condenser.
7th	1st	Demonstration on Surface Condenser.
	2nd	Study of Surface Condenser.
8 th	1st	Viva, Report writing & Evaluation
	2nd	Demonstration on spring-loaded safety valve.
9 th	1st	Study of spring-loaded safety valve.
	2nd	Viva, Report writing & Evaluation
10 th	1st	Demonstration on Cooling tower
	2nd	Study of Cooling tower
11 th	1st	Viva, Report writing & Evaluation
	2nd	Theoretical explanation on various efficiencies of steam turbine.
12 th	1st	Viva, Report writing & Evaluation
	2nd	Experiment for Left out students/ Question Discussion
13 th	1st	Experiment for Left out students/ Question Discussion
	2nd	Final Viva & Record Submission