GOVERNMENT POLYTECHNIC, MALKANGIRI DEPARTMENT OF MECHANICAL ENGINEERING

LESSON PLAN			
Discipline: Mechanical Engineering	Semester: 6TH	Name of the Teaching Faculty: Shantanu Kumar Maity	
Subject: Power Station Engineering Lab	No. of days/week class allotted	Semester From date: 04.02.2025 To date:17.05.2025 No. of Week: 15	
Course Outcomes	CO1: Understanding steam power plants, cooling towers, jet condenser, turbine		
	CO2: Understanding spring loaded safety valve and equipment used in practices		
	CO3: Understanding steam generators (boilers) models and usage		
Week	2 Class/Day	Theory/Practical Topics	
1st	1st	To study the modern steam power plant with model	
	2nd	To study the modern steam power plant with model	
1.1.	1st	To study the modern steam power plant with model	
2nd	2nd	To study the modern steam power plant with model	
DE OF ACADETORS	1st	To determine the various efficiencies of steam turbine	
3rd	2nd	To determine the various efficiencies of steam turbine	
4th	1st	To determine the various efficiencies of steam turbine	
	2nd	To determine the various efficiencies of steam turbine	
5th	1st	To study the cooling tower	
	2nd	To study the cooling tower	
6th	1st	To study the cooling tower	
	2nd	To study the cooling tower	
	1st	Study of jet condenser	
7th	2nd	Study of jet condenser	
8th	1st	Study of jet condenser	
	2nd	Study of jet condenser	
9th	1st	Study of De-lavel turbine	
	2nd	Study of De-lavel turbine	
10th	1st	Study of De-lavel turbine	
	2nd	Study of De-lavel turbine	
11th	1st	To study the spring loaded safety valve	
	2nd	To study the spring loaded safety valve	
12th	1st	To study the spring loaded safety valve	
	2nd	To study the spring loaded safety valve	
13th	1st	To study the following steam generators (boilers) model, (Lancashire , Cornish , Babcock & Wilcox, Vertical water tube)	
	2nd	To study the following steam generators (boilers) model, (Lancashire, Cornish, Babcock & Wilcox, Vertical water tube)	

14th	1st	To study the following steam generators (boilers) model, (Lancashire, Cornish, Babcock & Wilcox, Vertical water tube)
SING	2nd	To study the following steam generators (boilers) model, (Lancashire, Cornish, Babcock & Wilcox, Vertical water tube)
15th -	1st	To study the following steam generators (boilers) model, (Lancashire, Cornish, Babcock & Wilcox, Vertical water tube)
velicas i	2nd	To study the following steam generators (boilers) model, (Lancashire, Cornish, Babcock & Wilcox, Vertical water tube)

Learning Resources:

R.K Rajput

Power plant engineering (Laxmi Publication)

P.K. Nag

Power plant engineering (TMH)

Nag pal G,R

Power plant engineering (Khanna Publisher)

Shonton Rimon Marity

Signature of HOD

Signature of Academic