



Regd No : 2607298

LESSON PLAN REGISTER  
DEPARTMENT OF MECHANICAL ENGINEERING  
EDSE, BHARUSUGUDA  
<sup>4th</sup>/<sub>6th</sub> SEMESTER, WINTER/SUMMER 2022  
SESSION: FROM 10/3/22 TO 30/6/2022  
SUBJECT: Power station Engg. / T.E.-II  
NAME OF FACULTY: Basudev Mishra.

EXECUTIVE LONG BOUND EXERCISE BOOK

DESCRIPTION	SEMESTER	NAME OF TEACHING FACULTY
MECH.	6th	Basudev Meshra.

SUBJECT ⇒ POWER STATION ENGINEERING.

POWER STATION ENGG.	NO. OF DAYS/WEEK ALLOTTED.	SEMESTER FROM 13/12/23 - 23/5/23
	04.	NO OF WEEK

WEEK	CLASS/DAY	THEORY.
1st	Mon.	DESCRIPTION OF SOURCES OF ENERGY WITH INTRODUCTION
	Tues	CONCEPT OF CENTRAL AND CAPTIVE POWER PLANT CLASSIFICATION OF POWER PLANT
	Wed.	
	Thurs	CLASSIFICATION OF POWER PLANT, IMPORTANCE OF ELECTRIC POWER IN DAILY LIFE
	Fri	METHODS OF ELECTRICAL POWER GENERATION
	Sat	
2nd	Mon	METHODS FOR ELECTRICAL POWER GENERATION
	Tues	LAYOUT OF STEAM POWER PLANT
	Wed.	
	Thurs	CARNOT VAPOR CYCLE AND DETERMINATION OF ITS EFFICIENCY WITH P-V, T-S, h-s DIAGRAM
	Fri	RANKINE CYCLE AND DETERMINATION OF ITS THERMAL EFFICIENCY WITH P-V, T-S, h-s DIAGRAM
	Sat	
3rd	mon.	WORK RATIO AND SPECIFIC STEAM CONSUMPTION SOLVING NUMERICALS ON CARNOT CYCLE
	TUES	SOLVING NUMERICALS ON CARNOT CYCLE
	Wed	
	Thurs	SOLVING NUMERICALS ON RANKINE CYCLE
	Fri	SOLVING NUMERICALS ON RANKINE CYCLE
	Sat	
4th	mon.	LIST OF THERMAL POWER PLANT IN STATE WITH THEIR CAPACITY
	TUES	OPERATION OF AIR PREHEATER
	Wed	
	Thurs	OPERATION OF ECONOMISER
	Fri	OPERATION OF ESP




Sat	operation of superheater
Mon	operation of boiler
Tues	operation of boiler
Wed	operation of boiler
Thurs	operation of boiler
Fri	operation of boiler
Sat	operation of boiler
Mon	operation of boiler
Tues	operation of boiler
Wed	operation of boiler
Thurs	operation of boiler
Fri	operation of boiler
Sat	operation of boiler
Mon	operation of boiler
Tues	operation of boiler
Wed	operation of boiler
Thurs	operation of boiler
Fri	operation of boiler
Sat	operation of boiler

Mon	working of nuclear power with block
Tues	working of nuclear power with block
Wed	working of nuclear power with block
Thurs	working of nuclear power with block
Fri	working of nuclear power with block
Sat	working of nuclear power with block
Mon	working of nuclear power with block
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Sat	working of nuclear power with block

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	Sat.	
	Mon	Advantages and disadvantages of hydraulic power plant
	Tues	classify and explain storage type of hydraulic project
14th	Wed	operation of storage type of hydraulic project
	Thurs	site selection for hydraulic power plant
	Fri	
	Sat	
	Mon.	Lists of hydro power plant in stages with their capacities
	Tues	classification and type of water turbine
	Wed	
15th	Thurs	Types of water turbine with velocity triangle
	Fri	Derivation of work done and efficiencies power of different turbines
	Sat	
	Mon.	Solving numerical on water turbine
	Tues	Solving numericals on water turbine
16th	Wed	
	Thurs	Solving numericals on water turbine
	Fri	Site selection for gas turbine power plant fuel used in GT power plant
	Sat	
	Mon	Elements of simple G.T. power plant
	Tues	Working of constant pressure G.T. Plant open cycle, closed cycle
	Wed	
17th	Thurs	Working of constant volume gas turbine
	Fri	Merits, demerits and application of G.T. power plant
	Sat.	

 23/5/22