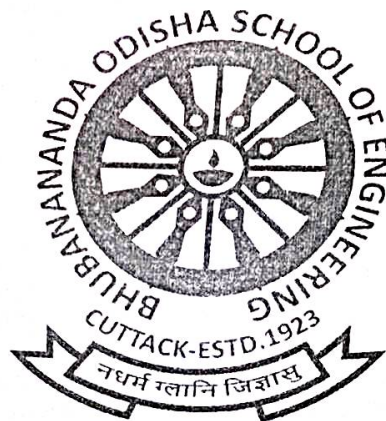


**DEPARTMENT OF APPLIED ELECTRONICS &
INSTRUMENTATION ENGG.**

**LESSON PLAN
OF
POWER PLANT INSTRUMENTATION (TH.4)
6TH SEMESTER
ACADEMIC YEAR: 2025-26 (SUMMER)**

**BY
RASHMITA GOUDA**



BHUBANANANDA ORISSA SCHOOL OF ENGINEERING
NEAR SCB MEDICAL COLLEGE & HOSPITAL, MANGALABAG, CUTTACK -
753007, ODISHA
Website : <https://bosecuttack.org.in>

NoofPeriod:60(4L/week)

Period	Date	Topics to be covered
1	26.12.2025	Ch-1: Introduction Importance of electric power plant
2	29.12.2025	Definition of power plant., Types of power plants.
3	30.12.2025	Sources of energy.
4	01.01.2026	Recent development in power generation
5	02.01.2026	Direct energy conversion system
6	05.01.2026	Alternative energy system.
7	06.01.2026	Energy scores in India.
8	08.01.2026	Development of electric power in India.
10	09.01.2026	Revision of Chapter-1
12	12.01.2026	Ch-2 : Steam power plant Operation of condensing & non condensing power plant
13	13.01.2026	Choice of steam, temperature & pressure.
14	15.01.2026	Important features of a modern coal fire steam power plant.
15	16.01.2026	Basic working principle of a thermal power plant.
17	19.01.2026	Different units of a stem power plants: Boiler unit
18	20.01.2026	Steam nozzles & turbine
19	22.01.2026	Condensing unit & function of condenser
20	27.01.2026	Cooling unit.
21	29.01.2026	Cooling ponds & cooling towers.
22	30.01.2026	Revision of Chapter-2
23	02.02.2026	Ch-3 : Hydroelectric Power plant Definition of Hydroelectric power plant.
25	03.02.2026	Essential features of a water power plant.
26	05.02.2026	Essential features of a water power plant.
27	06.02.2026	Classification of a hydro power plant.
28	09.02.2026	Hydraulic turbines & its operating characteristics.
29	10.02.2026	Selection of water turbine.
30	12.02.2026	Carbine hydro & steam power plant
31	13.02.2026	Comparison of hydropower station with thermal power station.
32	16.02.2026	Revision of Chapter-3
34	17.02.2026	Ch-4 : Nuclear Power plant General introduction of nuclear physics.
35	19.02.2026	Description of nuclear reactor.
36	20.02.2026	Classification of nuclear reactor.
37	23.02.2026	Safety uranium.
	24.02.2026	Methods of enriching uranium.
40	26.02.2026	Nuclear power plant in India.
41	27.02.2026	Features of nuclear power.
	02.03.2026	Revision of Chapter-4
43	05.03.2026	Ch-5 : Power plant instrumentation General classification of instrument.
44	06.03.2026	Pressure measuring instrument.
45	09.03.2026	Pressure measuring instrument.

46	10.03.2026	Temperature measuring instrument.
47	12.03.2026	Temperature measuring instrument.
48	13.03.2026	Flow measuring instrument.
49	16.03.2026	Flow measuring instrument.
50	17.03.2026	Analysis of combustion of gases.
51	19.03.2026	Revision of Chapter-5
52	20.03.2026	Ch-6 : Instrumentation for transmission for power Instrumentation schemed used for HVDC. & EHVAC transmission system.
53	23.03.2026	Energy management. Electronic instrumentation system adopted for energy conservation
54	24.03.2026	Electronic instrumentation scheme used for energy audit
55	26.03.2026	Economics of power plant.
56	30.03.2026	Revision of Chapter-6
57	31.03.2026	Question & answer discussion
58	02.04.2026	Question & answer discussion
59	06.04.2026	Question & answer discussion
60	07.04.2026	Question & answer discussion

Signature of Faculty

Signature of HOD