

Lesson Plan

Subject: Generation transmission & Distribution (Code) TH4 Name of faculty Smrutirekha Mohanty
 Semester 4th Class allotted 4P/week Branch Electrical Engg

Discipline	Semester	From date: 14/12/23 To date: 23/15/23	Teaching Aid
Subject	No. of days/ per week	Theory/ Practical - Topics/Lesson	
Week	Date/Period		
1	14/12/23	Elementary idea on generation of electricity from Thermal, Hydel, Nuclear Power Station.	White board & Marker
	to		
	17/12/23		
2	20/12/23	Layout diagram of generating station. Layout of transmission and distribution scheme. Voltage regulation & efficiency of transmission.	White board & Marker
	to		
	25/12/23		
3	27/12/23	State and explain Kelvin's Law for economical size of conductor. Corona and corona loss on transmission lines.	White board & Marker
	to		
	4/1/23		
4	6/1/23	Types of supports, size and spacing of conductor. Type of conducting material. State type of insulator and cross arms.	White board & Marker
	to		
	11/1/23		
5	13/1/23	Sag on overhead line with support at same level and different level. Simple problem on sag.	White board & Marker
	to		
	18/1/23		
6	20/1/23	Calculation of regulation and efficiency. EHV AC transmission reasons for adoption of EHV transmission. HV DC transmission Adv and limitation of HVDC.	White board & Marker
	to		
	25/1/23		
7	29/1/23	Introduction to Distribution system, connection schemes of distribution system: (Radial, Ring Main and Inter connected system)	White board & Marker
	to		
	31/1/23		

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Week	Date/Period	Theory/ Practical - Topics/Lesson	Teaching Aid
8	31/4/23	DC distributions.	White board
	to	DC distribution Fed at one end.	&
	8/4/23	Distribution Fed at both the ends.	Marker
9	10/4/23	AC Distributions.	White board
	to	Method of Solving AC dis	&
	15/4/23	tributions Problem. Three Phase four wire star connect ed System arrangement.	Marker
10	17/4/23	Cable insulation and classi	White board
	to	fication of cables. Types of	&
	21/4/23	L.T & H.T cable. with con- structural features.	Marker
11	24/4/23	Methods of cable laying	White board
	to	Localisation of cable	&
	29/4/23	Faults:- Murray and Varley 100P test for short ckt Fault/ Earth fault.	Marker
12	1/5/23	causes of low Power factor	White board
	to	and methods of improvement	&
	6/5/23	of Power factor in Power System. Factors affecting the economics of generation (Deshe & Arno)	Marker
13	8/5/23	load curves. Demand factor.	White board
	to	Max ^m demand, Load factor,	&
	13/5/23	Diversity factor. Plant capa- city factor. Peak load and Base load of power station.	Marker
14	15/5/23	Desirable characteristics of	White board
	to	a tariff. Explain flat rate,	&
	20/5/23	block rate, two part and max ^m demand tariff. (Some problems)	Marker
15	22/5/23	Layout of LT, HT and EHT	White board
	to	substation.	&
	23/5/23	Earthing of substation, transmission and distribution lines.	Marker

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