

Subject GT D Lesson Plan  
 Semester 4<sup>th</sup> (Code) Th-4 Name of faculty Kaishramani Sethi  
 Class allotted 4P/week Branch Electrical Engg.

Discipline	Semester	From date: 10/03/22 To date: 10/06/22	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical - Topics/Lesson	
Week	Date/Period		
1	10/03/22	Elementary idea on generation of electricity from Thermal, Hydel, Nuclear power station. Introduction to solar power plant.	
	11/03/22		
2	14/03/22	Layout diagram of generating station Layout of transmission & distribution system. voltage regulation & NT state kelvin's law Explain kelvin's law for economical size of cond.	
	15/03/22		
	16/03/22		
	17/03/22		
3	21/03/22	Corona and Corona loss on transmission line. Types of supports, size and spacing of conductors. Types of conductor materials.	
	22/03/22		
	23/03/22		
	24/03/22		
	25/03/22		
4	28/03/22	state types of insulator and crossarm Sag in overhead line with support at same level. Sag at different levels. Simple problem on sag	
	29/03/22		
	30/03/22		
	31/03/22		
5	04/04/22	Simple problems on Sag Calculation of regulation and efficiency of short T.L. Calculation of regulation and efficiency of medium T.L.	
	05/04/22		
	06/04/22		
	07/04/22		
	08/04/22		
6	11/04/22	Introduction of EHV AC transmission. Reason for adoption of EHV transmission. Problems involved in EHV transmission.	
	12/04/22		
	13/04/22		
7	18/04/22	Introduction of HVDC transmission Advantage of HVDC transmission system. Limitation of HVDC transmission system Introduction of Distribution system Radial, Ring main & interconnector system.	
	19/04/22		
	20/04/22		
	21/04/22		
	22/04/22		

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	Date/Period	Theory/ Practical - Topics/Lesson	Teaching Aid
	25/04/22	Distribution feed at one end	
	26/04/22	Distribution feed at both the ends.	
	27/04/22	Ring distribution	
	28/04/22	Introduction of AC distribution system	
	29/04/22	Method of solving AC distribution problem.	
	02/05/22	3- $\phi$ 4 wire $\gamma$ connected system arrangement.	
	04/05/22	Introduction of underground cable	
	05/05/22	cable insulation	
	06/05/22	classification of cables.	
	09/05/22	Types of LT & HT cables with	
	10/05/22	construction - features.	
10	11/05/22	Methods of cable laying	
	12/05/22	Murray loop test for S-C & earth fault	
	13/05/22	Varley loop test for S-C & earth fault	
	17/05/22	Cause of low power factor	
	18/05/22	Methods of improvement of P-f	
11	19/05/22	Define & Explain factors affecting the economics of generation.	
	20/05/22	Define load curve & demand factor.	
	23/05/22	Define maximum demand & load factor.	
	24/05/22	Define diversity factor, plant capacity factor.	
12	25/05/22	Peak load and base load on power system	
	26/05/22	Define tariff	
	27/05/22	Types of tariffs	
	31/05/22	Describe characteristics of a tariff	
13			
	01/06/22	Explain flat rate, block rate tariff.	
14	02/06/22	Explain two part & max <sup>m</sup> demand tariff.	
	03/06/22	Solve problems on tariff.	
	06/06/22	Layout of LT Substation	
	07/06/22	Layout of HT Substation	
15	08/06/22	Layout of EHT Substation	
	09/06/22	Earthing of substation	
	16/06/22	Earthing of Transmission & Distribution lines	

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