

DISCIPLINE- ELECTRICAL ENGG	SEMESTER- 4TH	NAME OF THE FACULTY- BASUDEV BARICK	
SUB -GTD	NO OF DAYS PER WEEK CLASS ALLOTTED-4	SEMSTER FROM :14/02/2023 TO 30/05/2023	
WEEK	CLASS DAY	THEORY	STATUS
1ST	1ST DAY	Elementary idea on generation of electricity from Thermal	
	2nd DAY	Elementary idea on generation of electricity from hydro	
	3rd DAY	Elementary idea on generation of electricity from nuclear	
	4th DAY	introduction to photovoltaic cell	
2nd	1ST DAY	introduction to solar power plant	
	2nd DAY	introduction to solar power plant	
	3rd DAY	layout diagram of generating stations	
	4th DAY	Layout of transmission and distribution scheme.	
3rd	1ST DAY	Voltage Regulation & efficiency of transmission	
	2nd DAY	State and explain Kelvin's law for economical size of conductor.	
	3rd DAY	Corona and corona loss on transmission lines.	
	4th DAY	Corona and corona loss on transmission lines.	
4th	1ST DAY	Types of supports, size and spacing of conductor.	
	2nd DAY	Types of conductor materials.	
	3rd DAY	State types of insulator and cross arms.	
	4th DAY	Sag in overhead line with support at same level	
5th	1ST DAY	Sag in overhead line with support at differnt level	
	2nd DAY	Simple problem on sag.	
	3rd DAY	Simple problem on sag.	
	4th DAY	classification of transmission line	
6th	1ST DAY	performance of short transmission line	
	2nd DAY	problems on short transmission line	
	3rd DAY	performance of medium transmission line(end condenser method)	
	4th DAY	performance of medium transmission line(nominal pi method & nomial t method)	
7th	1ST DAY	problems on short transmission line	
	2nd DAY	class test -1	
	3rd DAY	introduction to EHV AC transmission.	
	4th DAY	Reasons for adoption of EHV AC transmission.	
8th	1ST DAY	Problems involved in EHV transmission	
	2nd DAY	introduction to HVDC transmission	
	3rd DAY	Limitations of HVDC transmission system	
	4th DAY	advantagesof HVDC transmission system	
9th	1ST DAY	revision of chapter 1 & chapter 2	
	2nd DAY	Introduction to Distribution System.	
	3rd DAY	Connection Schemes of Distribution System:	
	4th DAY	Distributor fed at one End. & Distributor fed at both the ends.	
10th	1ST DAY	Ring distributors. & numericals on dc distributors	
	2nd DAY	Method of solving AC distribution problem.	
	3rd DAY	Three phase four wire star connected system arrangement	
	4th DAY	numerical on ac distributor	
11TH	1ST DAY	Cable insulation and classification of cables.	
	2nd DAY	Types of L. T. & H.T. cables with constructional features	
	3rd DAY	Methods of cable lying.	
	4th DAY	Localization of cable faults: Murray and Varley loop test for short circuit fault	

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WEEK	CLASS DAY	THEORY	STATUS
12th	1ST DAY	Earth fault.	
	2nd DAY	revision class	
	3rd DAY	power factor & power triangle	
	4th DAY	Causes of low power factor and methods of improvement of power factor in power system	
13th	1ST DAY	Factors affecting the economics of generation: load curve	
	2nd DAY	Load curves. Demand factor. Maximum demand. Load factor. Diversity factor. Plant capacity factor	
	3rd DAY	Peak load and Base load on power station	
	4th DAY	numerical problems	
14th	1ST DAY	numerical problems	
	2nd DAY	Desirable characteristic of a tariff.	
	3rd DAY	Explain flat rate, block rate, two part and maximum demand tariff	
	4th DAY	numerical problems	
15th	1ST DAY	Layout of LT, HT and EHT substation	
	2nd DAY	Layout of LT, HT and EHT substation	
	3rd DAY	Earthing of Substation, transmission and distribution lines.	
	4th DAY	Earthing of Substation, transmission and distribution lines.	

Agarwal
14.2.23