Discipline :Electric Engineering		Name of the teaching faculty:- MANMOHAN PANDA
Subject:-Genera Transmission & Distribution	class Allotted :-4	No. of weeks:-15
No. of week	No. of class	Topic to be Taught
	1 st	Introduction class
1 st	2 nd	GENERATION OF ELECTRICITY Elementary idea on generation of electricity from Thermal Power Station with layout diagram
	3 rd	Elementary idea on generation of electricity from Hydroelectric Power station with layout diagram
	4 th	Elementary idea on generation of electricity from Nuclear Power station with layout diagram
	1 st	Introduction to Solar Power Plant with layout diagram
	2 nd	TRANSMISSION OF ELECTRIC POWER Layout of transmission and distribution scheme
2 nd	3 rd	Voltage Regulation & efficiency of transmission
	4 th	State and explain Kelvin's law for economical size of conductor
	1 ^ស	Corona and corona loss on transmission lines
	2 nd	OVER HEAD LINES Types of supports, size and spacing of conductor
3 rd	3 rd	Types of conductor materials
	4 th	State types of insulator and cross arms
	1 et	Sag in overhead line with support at same level
4th	2 nd	Sag in overhead line with support different level
	3 rd	Approximate formula effect of wind, ice and temperature on sag
	4 th	Simple problem on sag
	1 st	PERFORMANCE OF SHORT LINES Calculation of regulation and efficiency
,	2 nd	PERFORMANCE OF MEDIUM LINES Calculation of regulation and efficiency
5th	3 rd	EHV TRANSMISSION EHV AC

		transmission
	4 th	Reasons for adoption of EHV AC transmission
6th 7th	1 st	Problems involved in EHV transmission
	2 nd	HV DC transmission
	3 rd	Advantages and Limitations of HVDC transmission system
	4 th	DISTRIBUTION SYSTEMS Introduction to Distribution System.
	1 st	Connection Schemes of Distribution System: (Radial, Ring Main and Inter connected system
	2 nd	DC distributions Distributor fed at one End.
	3 rd	Distributor fed at both the ends
	4 th	Ring distributors
	1 st	AC distribution system
	2 nd	Method of solving AC distribution problem
	3 rd	Three phase four wire star connected system arrangement
8th	4 th	UNDERGROUND CABLES Cable insulation and classification of cables
9th	1 st	Types of L. T cables with constructional features
	2 nd	Types of H.T. cables with constructional features
	3 rd	Methods of cable lying
	4 th	Localization of cable faults: Murray and Varley loop test for short circuit fault
10th	1 st	Localization of cable faults: Murray and Varley loop test for Earth fault
	2 nd	ECONOMIC ASPECTS
	3 rd	Causes of low power factor Methods of improvement of power factor in power system
	4 th	Factors affecting the economics of generation
	1 st	Load curves

		Demandfaster
11th	2 nd	Demand factor
	3 rd	Maximum demand
	4 th	Load factor
	. 1 st	Diversity factor
	2 nd	Plant capacity factor
	3 rd	Peak load and Base load on power station
		TYPES OF TARIFF
	4 th	Desirable characteristic of a tariff
12th	5 th	Explain flat rate, block rate tariff
	1 st	Explain two part and maximum demand tariff
	2 nd	Problems related to Tariff
		SUBSTATION
	3 rd	Layout of LT substation
13 th	4 th	Layout of HT substation
	1 st	Layout of EHT substation
14 th	2 nd	Earthing of Substation
	3 rd	Earthing of transmission lines
	4 th	Earthing of distribution lines
	l et	Solving of Previous year Questions
	2 nd	Solving of Previous year Questions
15 th	3 rd	Solving of Previous year Questions
15	4 th	Solving of Previous year Questions