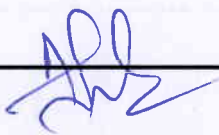
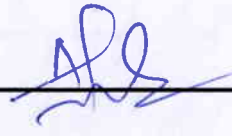


Dicipline:	EE	Semester:	4 <sup>th</sup>	Name of the Teaching Faculty:	Jyoti Prakash Mohapatra
Subject:	Generation transmission & distribution	No of Days/Week Class Allotted:	4	Semester From date:	13.02.23 To date 23.5.23
				No.of Weeks:	13
WEEK	Class Day	Theory Topics			
	1st	Elementary idea on generation of electricity from thermal power station.			
	2nd	elementary idea on generation of electricity from Hydro power station.			
	3rd	elementary idea on generation of electricity from nuclear power station.			
	4th	Introduction to solar power plant.			
	5th				
	1st	Layout diagram of generation stations.			
	2nd	Layout of transmission and distribution scheme.			
	3rd	Voltage regulation.			
	4th	Efficiency of transmission.			
	5th				
	1st	State and explain Kelvin's law for economical size of conductor.			
	2nd	Corona and corona loss on transmission lines.			
	3rd	Types of supports size and spacing of conductor.			
	4th	Types of spacing of conductor.			
	5th				

WEEK	Class Day	Theory Topics
	1st	Types of conductor materials.
	2nd	State types of insulator.
	3rd	State types of cross arms.
	4th	Sag in overhead line with support at same level and different level.
	5th	
	1st	Simple problem on sag.
	2nd	Introduction to transmission line and
	3rd	calculate the transmission line parameter. (Inductance).
	4th	calculate the transmission line parameter. (Capacitance).
	5th	
	1st	Understand the concept of travelling waves.
	2nd	Understand the concept of power flow through a transmission-line.
	3rd	problem on inductance of transmission line.
	4th	problem on capacitance of transmission line.
	5th	

<b>Dicipline:</b>		<b>Semester:</b>	<b>Name of the Teaching Faculty:</b>	
<b>Subject:</b>		<b>No of Days/Week Class Allotted:</b> _____	<b>Semester From date:</b> _____ <b>To date</b> _____	<b>No.of Weeks:</b>
<b>WEEK</b>	<b>Class Day</b>	<b>Theory Topics</b>		
	1st	EHV AC transmission.		
	2nd	REASONS FOR ADOPTION OF EHV AC transmission.		
	3rd	EHV AC transmission.		
	4th	problems involved in EHV transmission.		
	5th			
	1st	HV DC transmission.		
	2nd	Advantages of HVDC transmission system.		
	3rd	Limitations of HVDC transmission system.		
	4th	Introduction to distribution system.		
	5th			
	1st	connection schemes of distribution system.		
	2nd	connection schemes of distribution system.		
	3rd	DC distributions, distributor fed at one end.		
	4th	Distributor fed at both ends, Ring distributors.		
	5th			

WEEK	Class Day	Theory Topics
	1st	AC distribution System, method of solving AC distribution problem.
	2nd	Three phase four wire star connected system arrangement.
	3rd	Cable insulation and classification of cables and class test question discussion.
	4th	types of L.T & H.T. cables with constructional features.
	5th	
	1st	methods of cable laying.
	2nd	Localization of cable faults; Murray and Varley loop test for short earth fault.
	3rd	Causes of low power factor and methods of improvement of power factor in power.
	4th	Factor affecting the economics of generation: load curves, demand factor.
	5th	
	1st	Factor affecting the economics of generation: maximum demand, Load factor.
	2nd	Factors affecting the economics of generation: Diversity factor, plant capacity.
	3rd	Peak load and Base load on power station
	4th	Revision and question discussion.
	5th	

Dicipline:		Semester:	Name of the Teaching Faculty:	
Subject:	No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks:	
WEEK	Class Day	Theory Topics		
	1st	Desirable characteristic of a tariff		
	2nd	explain Flat rate, block rate, two part and maximum demand tariff.		
	3rd	solve problems of flat rate, block rate, two part and maximum demand tariff.		
	4th	Layout of LT, HT substation.		
	5th			
	1st	layout of EHT substation		
	2nd	earthing of substation lines, transmission lines and distribution lines.		
	3rd	PREVIOUS SEMESTER QUESTION DISCUSSION		
	4th	DISCUSSION OF ASSIGNMENT QUESTION		
	5th			
	1st	CLASS TEST - II		
	2nd	OMR TEST		
	3rd	CLASS TEST QUESTION DISCUSSION & DISTRIBUTION OF EVALUATED TERM REFERENCES.		
	4th			
	5th	 		

WEEK	Class Day	Theory Topics
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	