

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

SIVARAM VIHAR, GHATAKESWAR HILLS
MOHADA, BERHAMPUR (GM.)



STUDENT'S ATTENDANCE REGISTER

Time	9.05 to 9.55	9.55 to 10.45	11.35 to 12.25		
Day					
MON			✓		
Tues	✓				
Wed		✓			
Thu		✓			
Fri					
Sat					

(4P/W)

Year/ Session	2022-23 (Summer)
Semester & Branch	4th sem Electrical.
Subject with Code	Generation Transmission & Distribution (470)
Name of the Faculty Member	En. Srinibasa Panda

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic	
February	3rd week	13/02/23	<u>unit-1</u> 1. <u>Generation of Electricity</u> 1.1 Elementary idea on generation of electricity from thermal, Hydel, nuclear power station.	
		14/02/23		
		16/02/23		
			17/02/23	1.2 Introduction to solar power plant. (Photovoltaic cells)
		20/02/23		
		21/02/23	1.3 layout diagram of generating stations.	
		22/02/23		
		4th week	23/02/23	<u>unit-2</u> <u>Transmission of electric power</u> 2.1 layout of transmission and distribution scheme.
			24/02/23	
			27/02/23	
	5th week	28/02/23	2.2 voltage regulation and efficiency of transmission. 2.3 state and explain Kelvin's law for economical size of conductors.	
		01/03/23		
			2.4 corona and corona loss on transmission lines.	

S. Pandey

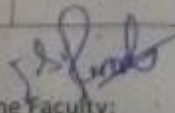
Signature of the Faculty:


S. Pandey

Signature of the Principal/Course Co-ordinator/HOD:

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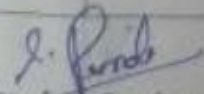
Month	Week	Class Day	Theory/Practical Topic
March	1st week	02/03/23	<p style="text-align: center;"><u>unit-3:</u> <u>over head lines:</u></p> <p>3.1 TYPES of support, size and spacing of conductors.</p> <p>3.2. TYPE of conductor material</p> <p>3.3 state types of insulator and cross arm.</p> <p>3.4. sag in overhead lines with support at same level and different level.</p> <p>3.5 simple problem on sag</p> <p style="text-align: center;"><u>unit-4</u> <u>performance of short and medium lines.</u></p> <p>4.1 Calculation of regulation and efficiency</p>
		03/03/23	
	2nd	06/03/23	
		09/03/23 10/03/23	
	3rd	13/03/23 14/03/23	
		15/03/23	
		16/03/23	
		17/03/23	
	4th week	20/03/23	
		21/03/23	
		22/03/23	
		23/03/23	
		24/03/23	

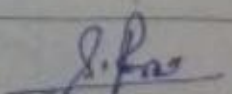
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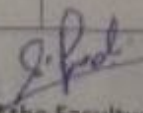
Month	Week	Class Day	Theory/Practical Topic
March	5th week	27/03/23	<u>unit-5</u> 5.1 EHV AC transmission. 5.1.1 Reasons for adoption of EHV AC transmission. 5.1.2 Problems involved in EHV transmission.
		28/03/23	
		29/03/23	
April	2nd week	31/03/23	5.2 HV DC transmission. 5.2.1 Advantages and limitations of HVDC transmission system.
		03/04/23	
		05/04/23	
3rd		06/04/23	<u>unit-6</u> <u>Distribution systems</u> 6.1 Introduction to distribution system. 6.2 connection schemes of distribution system (radial, ring main, and Inter connected system)
		10/04/23	
		11/04/23	
			6.3. <u>Dc. distributions:</u> 6.3.1 Distributor fed at one end. 6.3.2 Distributor fed at both the ends.

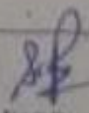
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Month	Week	Class Day	Theory/Practical Topic	
April	3rd week	12/04/23	6.33 Ring distributors	
		13/04/23	6.4 AC Distribution system	
		14/04/23	6.41 methods of solving AC distribution system problem.	
	4th	4th	17/04/23	6.42: Three phase four wire star connected system arranged.
			18/04/23	<u>unit-3:</u> <u>Cable</u> <u>insulation</u> <u>and</u> <u>classification</u> <u>of</u> <u>cables</u> .
			19/04/23	7.1 Cable insulation and classification of cables.
			20/04/23	7.2 types of LT & HT cables with constructional features.
			21/04/23	7.3 methods of cable laying.
			24/04/23	7.4 localization of cable faults. Murray and Varley
			25/04/23	loop test for short circuit fault/ Earth fault.


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Month	Week	Class Day	Theory/Practical Topic
April	5th week	26/04/23	<p style="text-align: center;"><u>unit-2</u> <u>Economic ASPECTS/ASPECTS</u></p> <p>8.1 Causes of low power factor and methods of improvement of power factor in power system.</p>
		27/04/23	
May	6th week	28/04/23	8.2. Factors affecting the economics of generation. (Define and explain)
		01/05/23	8.2.1 load curves.
			8.2.2 Demand factors
			8.2.3 maximum demand
			8.2.4 load factor
			8.2.5 diversity factor.
	02/05/23	8.2.6 plant capacity factor.	
		03/05/23	8.3 Peak load and base load on power station.

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Month	Week	Class Day	Theory/Practical Topic	
May	2nd week	09/05/23	<u>unit-9:</u> 9.1 Desirable characteristic of a tariff.	
		09/05/23	9.2 Explain flat rate, block rate, two part and maximum demand tariff (solve problems)	
		09/05/23		
	3rd week	10/05/23	<u>unit-10</u>	
		11/05/23	<u>Substation:</u>	
		11/05/23	10.1 Layout of LT, HT and EHT substation.	
		12/05/23	10.2 Earthing of substation, transmission and distribution lines	
		15/05/23		

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Signature of the Principal/Course Co-ordinator/HOD: *[Signature]*