

**SAMANTA CHANDRASEKHAR INSTITUTE
OF TECHNOLOGY & MANAGEMENT**
SEMILIGUDA-764 036, KORAPUT

DEPT. OF.....ELECTRICAL.....

LESSON PLAN AND PROGRESS REGISTER

(To be maintained by all members of the teaching staff)

SESSION.....2023-2024.....(4TH - GTD)
(6TH - SGPD)

NAME.....Amita Pradhan.....
DESIGNATION.....H. O. D.....
DEPT.....Electrical.....

APradhan
SIGNATURE

Semester 4th

Branch

Electrical

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
04/03/24	TH-4	Elementary idea on generation of Electricity.	01
06/03/24		Thermal, Hydro, Nuclear Power station.	01
09-03-24		Introduction to Solar Power Plant.	01
11-03-24		Layout diagram of generating stations.	01
	2>	TRANSMISSION OF ELECTRIC POWER	
12-03-24	2.1>	Layout of Transmission & distribution scheme	01
13-03-24	2.2>	Voltage regulation & efficiency of transmission	02
14-03-24	2.3>	Static & explain Kelvin's law of transmission	01
15-03-24		Economical size of conductor.	01
18-03-24			
19-03-24			
		NUMERICALS	02.
20-03-24	2.5>	Corona & corona loss on transmission lines	01
21-03-24			
	3>	OVERHEAD LINES	01
22-03-24	3.1>	Types of supports, size & spacing of conductors.	01
27-03-24	3.2>	Types of conductor materials	01
28-03-24	3.3>	State types of Insulators & cross arms	01

LESSON PLAN

Degree/Diploma/+2 Science
(Theory/Pract/Lab/Workshop)

Semester	Branch	No. of Classes Required	Semester
Month & Date	Course No. & Title	Brief note of the topics to be covered	Date
02-04-24	TH-4	Sag in Overhead lines with support.	
03-04-24	34)	Sag at same level & different level	
04-04-24	35)	Numericals.	
05-04-24	4)	PERFORMANCE OF SHORT, MEDIUM LINES	
08/04/24.	4.1)	Calculation of regulation & efficiency	
09-04-24		Numericals	
10-04-24		(a) SHORT LINE (b) MEDIUM LINE	
12-04-24	51)	(c) LONG LINE	
15-04-24		EHV AC TRANSMISSION	
16/04/24	51.1)	Reasons for adoption of EHV AC transmission	
18/04/24	51.2)	Problems involved in EHV transmission	
19/04/24	5.2)	HVDC transmission.	
22/04/24	5.2.1)	Advantages of limitation of HVDC transmission system	

LESSON PLAN

Degree/Diploma/+2 Scier
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Semester 4TH

Branch

Electrical

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required	Semester Date
	<u>TH-4</u>	6) DISTRIBUTION SYSTEM		
23/04/24	6.1)	Introduction to distribution system	01	
24/04/24	6.2)	Radial, Ring Main & Interconnected system	01	
25/04/24		connection schemes of distributed system	01	
26/04/24	6.3.1)	Distribution fed at one end.	01	
29/04/24	6.3.2)	Distribution fed at both ends.	01	
30/04/24	6.3.3)	Ring Distributors	01	
01/05/24	6.4)	AC distribution system	01	
	6.4.1)	Three Phase 4-wire		
02/05/24		star connected system	01	
	7)	UNDERGROUND CABLES		
03/05/24	7.1)	Cable, Insulation & classification of cables	01	
06/05/24	7.2)	Types of LT & HT	01	
		cables with constructional details		

LESSON PLAN

Degree/Diploma/+2 Science
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Semester

4th

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Electrical

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required	Date	Course No. & Title
07/05/24	TH-4 7.3)	Methods of cable.	01		
08/05/24	7.4)	Localization of cable faults.	01		
		Murray & Varley loop test for short & fault/Earth faults	01		
09/05/24					
	8)	ECONOMIC ASPECTS			
10/05/24	8.1)	Causes of low power factor & methods of improvement	01		
		of power factor in power system.			
03/05/24	8.2)	Factors affecting the economies of generation	01		
10/05/24		Load curves	01		
	9)	DESIRABLE CHARACTERISTICS			
09/05/24		OF A TARIFF.	01		
	9.2)	Explain flat rate tariff, block rate, two part &	01		

Degree/Diploma/+2 Scie
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4TH

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