LESSON PLAN						
JHARSUGUDA ENGINEERING SCHOOL, JHARSUGUDA						
Acidemic Year: 2021-22	Name of the Faculty: Suprasad Pal					
Course name: Basic electrical engineering	Course No: TH4(a)					
Branch: Electrical	Program: Diploma					
Section: A	Year/Sem: 1 st /2 nd					

L.NO	PER S	IOD	Teaching methods	Time (minut	Topics to be covered	units
				es)	Concept of current flow, source and load. Ohm's law and	1
L	1		Green board	55	concept of resistance.	
2	2		Green	55	Relation of V, I & R in series circuit & parallel circuit	1
3	3		board Green	55	Division of current in parallel circuit. Numerical problem on equivalent resistance.	1
			board			1
4	4		Green board	55	Effect of power in series & parallel circuit. And a problem.	
5	- 5		Green	55	Kirchhoff's Law. Problems based on Kirchhoff's law.	1
6		, 6	board Digital	55	Generation of alternating emf. Difference between D.C.	2
			board		& A.C.	2
7		7	Green board	55	Various AC terms. Explanation of rms value, average value, Amplitude factor & Form factor.	
8		8	Green	55	Representing AC values in phasor diagrams. simple problems on FF,AF.	2
			board		AC through pure resistance, inductance & capacitance.	2
9		9	Digital board	55	A Cabbaugh RL RC series circuits ,power factor ,power,	2
10	0	10	Digital board	55	power triangle & impedance triangle.	2
1	.1	11	Digital	55	AC though RLC series circuits, power factor, power. Impedance triangle and power triangle.	
			board	55	Simple problems on RL, RC series circuits.	2
:	12	12	Green board	55	Simple problems on RLC series circuits.	2
	13	13	Green board	55	J.I.P. I	



1	14	Digital board	55	Steam power station(Thermal power station)	3
.5	15	Digital	55	Hydro electric power station.	3
16	16	board Digital	55	Nuclear power station	
17	17	board Digital board	55	Introduction of DC machines & the Main parts of DC machines.	4
18	18	Green	55	Classification of DC generator& motor.	4
	19	board Green	55	Uses of different types of DC generators & motors.	4
19		board	55	Types and uses of single phase induction motors.	4
20	20	board	55	Concept of Lumen.	4
21	21	Green board	55	Different types of Lamps its Construction & its principle.	4
22	22	Digital board	55	Star rating of home appliances.	4
23	23	Green board		Types of wiring for domestic installations.	5
24	24	Green board	55	Layout of household electrical wiring .	5
25		Green board	55	The basic protective devices used in house hold wiring.	5
26		Green board	55	Problems based on energy consumed in a small	5
27	7 27	Green board	55	electrical installation.	6
2	8 28	Green	55	Introduction to measuring instruments. Torques in instruments.	6
2	29 29	Green board	55	Different uses of PMMC type of instruments & MI type of instruments .	

[30	30	Green board	55	Connection diagram of A.C/ D.C Ammeter, voltmeter, energy meter and wattmeter.	6

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