LESSON PLAN				
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA				
Name of the Faculty:Sourav Kar	Academic Year: 2021-22			
Course No.: Th 4	Course name: Electrical Engineering Material			
Programe: Diploma	Branch:Electrical			
Year/Sem: 2nd/3rd	Section:			

Sl. No.	Period	Time (min)	Unit	Topic to be Covered	Teaching Method
1.	1.	55 min	1	Introduction to conducting material	Black
					board
2.	2.	55min	1	Resistivity and factors affecting resistivity	Black
					board
3.	3.	55min	1	Classification of conducting materials	Black
					board
4.	4.	55min	1	Low resistivity materials and their applications	Black
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5.	5.	55min	1	Stranded conductors and bundled conductors	Black
		~~ ·	1	T 12.12 11 TT 1 12.12 4 1 1	board
6.	6.	55min	1	Low resistivity copper alloys, High resistivity materials	Black
7		~ ·	1		board
7.	7.	55min	1	Superconducting materials and it's application	Black
8.	8.	55min	2	Introduction to semiconducting materials	board Black
0.	0.	3311111	2	introduction to semiconducting materials	
9.	9.	55min	2	Electron energy and energy band theory	board
9.	9.	3311111	2	Electron energy and energy band theory	Black
10	10.	55min	2	Excitation of atoms and covalent bond	board Black
10	10.	3311111	2	Excitation of atoms and covalent bond	board
11	11.	55 min	2	Insulators, Semiconductors and conductors	Black
11	11.	20 11111	_	insulators, perinconductors and conductors	board
12	12.	55 min	2	Intrinsic and Extrinsic semiconductors	Black
12	12.	20 11111	_	mamble and Example semiconductors	board
13	13.	55min	2	N-type and P-type materials	Black
10	10.	0011111	_	1 type und 1 type manerials	board
14	14.	55 min	2	Minority and Majority carriers	Black
					board
15	15.	55 min	2	Application of semiconductor materials	Black
				••	board
16	16.	55min	3	Introduction to insulating materials	Black
					board
17	17.	55min	3	General properties of insulating material	Black
					board
18	18.	55 min	3	Electrical properties	Black
					board
19	19.	55 min	3	Visual properties	Black
					board
20	20.	55 min	3	Mechanical Properties	Black
					board
21	21.	55 min	3	Chemical properties	Black
					board
22	22.	55min	3	Ageing	Black
					board

23	23.	55min	3	Classification of insulating materials	Black
					board
24	24.	55 min	3	Insulating gases	Black
					board
25	25.	55 min	4	Introduction to Dielectric materials	Black
					board
26	26.	55 min	4	Dielectric constant of permittivity	Black
					board
27	27.	55 min	4	Polarization	Black
					board
28	28.	55 min	4	Dielectric loss	Black
29	29.	55 min	4	Electric conductivity of Dielectrics and their breakdown	board
				Electric conductivity of Dielectrics and their breakdown	Projector
30	30.	55 min	4	Properties of dielectric	Projector
31	31.	55 min	4	Application of dielectric	Black
					board
32	32.	55 min	4	Numerical problems solving on dielectric	Black
2.2					board
33	33.	55 min	5	Introduction to magnetic materials	Projector
34	34.	55 min	5	Classification of magnetic material	Projector
35	35.	55 min	5	Diamagnetism	Black
					board
36	36.	55 min	5	Para magnetism	Black
					board
37	37.	55 min	5	Ferromagnetism	Black
					board
38	38.	55 min	5	Numerical problems solving on Magnetism	Black
					board
39	39.	55 min	5	Magnetization curve	Black
4.0	40				board
40	40.	55 min	5	Hysteresis	Black
41	41.	55 min	5	Eddy currents	board
41	41.	33 11111	3	Eddy currents	Black
42	42.	55 min	5	Curie point	board Black
42	42.	33 11111	3	Curie point	board
43	43.	55 min	5	Magneto- striction	Black
43	43.	33 11111	3	Wagneto- striction	board
44	44.	55 min	5	Soft magnetic materials	Black
				2010 magnotic maronia	board
45	45.	55 min	5	Hard magnetic materials	Black
			-	magnetic materials	board
46	46.	55 min	6	Introduction to special purpose material	Black
				1 1	board
47	47.	55 min	6	Structural materials	Black
					board
48	48.	55 min	6	Protective materials	Black
					board
49	49.	55 min	6	Thermocouple materials	Black
					board
50	50.	55 min	6	Bimetals	Black
					board
51	51.	55 min	6	Soldering materials	Black
					board

52	52.	55 min	6	Numerical problems solving	Black
					board
53	53.	55 min	6	Numerical problems solving	Black
					board
54	54.	55 min	6	Fuse and fuse materials	Black
					board
55	55.	55 min	6	Dehydrating materials	Black
					board
56	56.	55 min	6	Numerical problems solving	Black
					board
57	57.	55 min	6	Numerical problems solving	Black
					board
58	58.	55 min	6	Numerical problems solving	Black
					board
59	59.	55 min		Revision of all topics	Black
					board
60	60.	55 min		Revision of all topics	Black
					board