LESSON PLAN	
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA	
Academic Year: 2020-21	Name of the Faculty:RAJIVRATAN PATELSEEMA LAKRA
Course name: Electrical Measurement and Instrumentation	Course No.: Th3
Branch:Electrical	Program: Diploma
Section:	Year/Sem: 2nd/4th

Sl. No.	Period	Time (min)	Teaching Method	Topic to be Covered	Unit
1.	1.	55 min	Black board	Accuracy, Precision, Errors	1
2.	2.	55min	Black board	Resolution, Sensitivity and tolerance	1
3.	3.	55min	Black board	Classification of measuring instruments	1
4.	4.	55min	Black board	Deflecting , controlling and damping arrangements	1
5.	5.	55min	Black board	Calibration of instruments	1
6.	6.	55min	Black board	Moving iron instruments	2
7.	7.	55min	Black board	PMMC instruments	2
8.	8.	55min	Black board	Dynamometer type instruments	2
9.	9.	55min	Black board	Rectifier type instruments	2
10.	10.	55min	Black board	Induction type instruments	2
11.	11.	55 min	Black board	Extend the range of instruments by use of shunts and multipliers	2
12.	12.	55 min	Black board	Solve numerical	2
13.	13.	55min	Black board	Solve numerical	2
14.	14.	55 min	Black board	Construction of dynamometer type wattmeter	3
15.	15.	55 min	Black board	Principle of operation of dynamometer type wattmeter	3
16.	16.	55min	Black board	Errors and method of their correction	3
17.	17.	55min	Black board	Induction type watt meters	3
18.	18.	55 min	Black board	Induction type energy meters	4
19.	19.	55 min	Black board	Energy meter	4
20.	20.	55 min	Black board	Testing of energy meters	4
21.	21.	55 min	Black board	Tachometers, types and working principles	5
22.	22.	55min	Black board	Mechanical resonance type frequency meters	5

23.	23.	55min	Black board	Electrical resonance type frequency meters	5
24.	24.	55 min	Black board	Dynamometer type single phase power factor meters	5
25.	25.	55 min	Black board	Dynamometer type three phase power factor meters	5
26.	26.	55 min	Black board	Classification of resistance	6
27.	27.	55 min	Black board	Measurement of low resistance	6
28.	28.	55 min	Black board	Measurement of medium resistance	6
29.	29.	55 min	Projector	Measurement of high resistance	6
30.	30.	55 min	Projector	Megger and earth tester	6
31.	31.	55 min	Projector	Multimeter	6
32.	32.	55 min	Projector	Measurement of inductance	6
33.	33.	55 min	Projector	Measurement of capacitance	6
34.	34.	55 min	Projector	Transducer	7
35.	35.	55 min	Projector	Classification of transducer	7
36.	36.	55 min	Projector	Resistive transducer	7
37.	37.	55 min	Black board	Thermistor	7
38.	38.	55 min	Black board	RTD	7
39.	39.	55 min	Black board	Strain gauge	7
40.	40.	55 min	Black board	Linear and angular motion potentiometer	7
41.	41.	55 min	Black board	Inductive transducer	7
42.	42.	55 min	Black board	LVDT	7
43.	43.	55 min	Black board	Capacitive transducer	7
44.	44.	55 min	Black board	Piezoelectric transducer	7
45.	45.	55 min	Black board	Hall effect transducer	7
46.	46.	55 min	Black board	Numerical problem	7
47.	47.	55 min	Black board	Numerical problem	7
48.	48.	55 min	Black board	CRO	8
49.	49.	55 min	Black board	Operation of CRO	8
50.	50.	55 min	Black board	Block diagram	8
51.	51.	55 min	Black board	Measurement of DC voltage and current	8
52.	52.	55 min	Black board	Measurement of AC voltage and current	8
53.	53.	55 min	Black board	Measurement of phase and frequency	8

54.	54.	55 min	Black board	Numerical problem	8
55.	55.	55 min	Black board	Numerical problem	8
56.	56.	55 min	Black board	Numerical problem	8
57.	57.	55 min	Black board	Numerical problem	8
58.	58.	55 min	Black board	Numerical problem	8
59.	59.	55 min	Black board	Revision of all topics	
60.	60.	55 min	Black board	Revision of all topics	