Techno India NJR Institute of Technology

Academic Administration of Techno NJR Institute

Syllabus Deployment

Name of Faculty: Mr. Rajkumar Soni Subject Code:4EE4-24

Lab: Measurement Lab

Department: Department of Electrical Engineering (EE & EEE) SEM: IV

Total No. of Lab: 10

CO1 Study working and applications of Meggar, Tong-tester, P.F. Meter and Phase Shifter.

CO2 Measure power and power factor in 3-phase load by (i) Two-wattmeter method and (ii) One-wattmeter method.

CO3 Calibrate a voltmeter using Crompton potentiometer.

CO4 Calibrate a single-phase energy meter by phantom loading at different power factors.

Lab No.	Topic
1	Study working and applications of (i) C.R.O. (ii) Digital Storage C.R.O. & (ii) C.R.O. Probes.
2	Study working and applications of Meggar, Tong-tester, P.F. Meter and Phase Shifter.
3	Measure power and power factor in 3-phase load by (i) Two-wattmeter method and (ii) One-wattmeter method.
4	Calibrate an ammeter using DC slide wire potentiometer.

For Techno India NJR Institute of Technology

पंकज पोरवाल

Dr. Pankaj Kumar Porwal

(Principal)

5	Calibrate a voltmeter using Crompton potentiometer.
6	Measure low resistance by Crompton potentiometer.
7	Measure Low resistance by Kelvin's double bridge.
8	Measure earth resistance using fall of potential method.
9	Calibrate a single-phase energy meter by phantom loading at different power factors.
10	Measure self-inductance using Anderson's bridge.

TEXT/REFERENCE BOOKS

1. Electrical Measurements Book by A.V.BakshiU.A.BakshiA.P.Godse
2. Measurements And Instrumentation Book by A.V.BakshiU.A.BakshiA.P.Godse