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

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| 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. |

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| 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. |
| 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. |

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| **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 |