Electrical Measurements & Instrumentation Lab

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| 1 | Electrical Measurements & Instrumentation Lab | Calibration and testing of single phase energy meter: Instruments required: 1-phase energy meter Wattmeter (Dynamometer Type,UPF) Voltmeter(MI), Ammeter, Lamp Load, Booster transformer 1phase Variac Stop watch, Connecting wires, Auto Transformer |
| 2 | Electrical Measurements & Instrumentation Lab | Kelvin Double Bridge: Instruments required: Portable kelvin double bridge kit, External galvanometer, Standard resistance Rheostat, patch cards, wires |
| 3 | Electrical Measurements & Instrumentation Lab | Schering Bridge: Instruments required: Resistance(10 Ω/100 Ω/1000 Ω)-Each 3 Decade capacitance box -2 Unknown capacitors-4 Decade resistance box-1 |
| 4 | Electrical Measurements & Instrumentation Lab | Andersons Bridge: Instruments required: Andersons Bridge kit Decade inductance box-1 Multimeter-1 |
| 5 | Electrical Measurements & Instrumentation Lab | Measurement of three phase reactive power with 1 phase wattmeter: Instruments required: 3-phase variac-1 Ammeter-1 Wattmeter-1 Voltmeter-1 Choke-3 |
| 6 | Electrical Measurements & Instrumentation Lab | Measurement of parameters of a choke coil using 3 voltmeter and 3 ammeter methods Instruments required: Ammeter-4 Voltmeter-4 Choke-1 1-phase variac-1 Rheostat-1 |
| 7 | Electrical Measurements & Instrumentation Lab | Calibration of LPF wattmeter by phantom testing Instruments required: Ammeter-1 Voltmeter-1 1-phase variac-1 Wattmeter-1 Booster transformer-1 |
| 8 | Electrical Measurements & Instrumentation Lab | Measurement of 3 phase power with 1 wattmeter and 2 no. of CT Instruments required: Ammeter-1 Voltmeter-1 3-phase variac-1 Wattmeter-1 Choke-3 Current transformer-2 |
| 9 | Electrical Measurements & Instrumentation Lab | Dielectric oil testing using HT testing kit |
| 10 | Electrical Measurements & Instrumentation Lab | LVDT & Capacitance pickup Characteristics and calibration Instruments required: LVDT Trainer kit-1 Digital multimeter |
| 11 | Electrical Measurements & Instrumentation Lab | Crompton DC Potentiometer Instruments required: DC Crompton Potentiometer-1 Standard cell-1 Volt ratio box-1 Regulated power supply-1 Ammeter-1 Voltmeter-1 Sensitive galvanometer-1 Standard resistance-1 Rheostat-1 Battery-1 DC supply-1 |
| 12 | Electrical Measurements & Instrumentation Lab | Calibration of dynamometer power factor meter Instruments required: Ammeter-1 Voltmeter-2 1-phase variac-1 Wattmeter-1 P.F.Meter-1 Rheostat-1 |
| 13 | Electrical Measurements & Instrumentation Lab | PT testing by comparision Instruments required:potential transformer Galvanometer -1 Ammeter-1 Voltmeter-2 1-phase variac-1 P.F.Meter-1 Rheostat |
| 14 | Electrical Measurements & Instrumentation Lab | Resistance strain gauge strain gauge measurement kit |
| 15 | Electrical Measurements & Instrumentation Lab | CT testing using mutual inductor instruments required: current transformer 1-phase transformer |
| 16 | Electrical Measurements & Instrumentation Lab | Tranformer turns ratio measurement using A.C brige instruments required:1-phase transformer |