





BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Mangalpally, Ibrahimpatnam

EEE DEPARTMENT LABORATORY DETAILS - B.TECH-ELECTRICAL MEASUREMENTS LAB

SL.NO	NAME OF THE LABORATORY	ROOM NUMBER	NAME OF THE EQUIPMENT	MAKE	MODEL	TOTAL UNITS AVAILABLE	EQUIPMENT PHOTO
1	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	Calibration and testing of single phase energy meter: Instruments required: 1-phase energy meter Wattmeter (Dynamometer Type,UPF) Voltmeter(MI) Booster transformer 1phase Variac Stop watch	Physitech	NA	1	
2	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	Kelvin Double Bridge: Instruments required: Portable kelvin double bridge kit External galvanometer Standard resistance Rheostat	Physitech	Phy-114	2	
3	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	Schering Bridge: Instruments required: Resistance(10 Ω/100 Ω/1000 Ω)-Each 3 Decade capacitance box -2 Unknown capacitors-4 Decade resistance box-1	Physitech	Phy-113	1	
4	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	Andersons Bridge: Instruments required: Andersons Bridge kit Decade inductance box-1 Multimeter-1	Physitech	Phy 129	1	
5	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	Measurement of three phase reactive power with 1 phase wattmeter: Instruments required: 3-phase variac-1 Ammeter-1 Wattmeter-1 Voltmeter-1 Choke-3	MECO-G	NA	1	

6	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	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	Physitech	NA	1	
7	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	Calibration of LPF wattmeter by phantom testing Instruments required: Ammeter-1 Voltmeter-1 1-phase variac-1 Wattmeter-1 Booster transformer-1	Physitech	NA	1	
8	ELECTRICAL MEASUREMENTS	M-401	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	MECO-G	Analog	1	
9	ELECTRICAL MEASUREMENTS	M-401	Dielectric oil testing using HT testing kit	Neutronics, Mumbai	MotORIZED	1	
10	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	LVDT & Capacitance pickup Characteristics and calibration Instruments required: LVDT Trainer kit-1 Digital multimeter	Unitech	UIT M-02	1	
11	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	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	Physitech	NA	2	
12	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	Calibration of dynamometer power factor meter Instruments required: Ammeter-1 Voltmeter-2 1-phase variac-1 Wattmeter-1 P.F.Meter-1 Rheostat-1	MECO, Physitech	Analog	1	

13	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	PT testing by comparison Instruments required: potential transformer Galvanometer -1 Ammeter-1 Voltmeter-2 1-phase variac-1 P.F.Meter-1 Rheo	Automatic Electric Ltd.	29/23	1	
14	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	Resistance strain gauge strain gauge measurement kit	Unitech	UIT M-01	2	
15	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	CT testing using mutual inductor instruments required: current transformer 1-phase transformer	ITTA	NA	1	
16	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	M-401	Tranformer turns ratio measurement using A.C brige instruments required: 1-phase transformer	ITTA	NA	1	
17	ELECTRICAL MEASUREMENTS	M-401	Measurement of 3 phase Reactive power with 1 wattmeter. Instruments required: Ammeter-1 Voltmeter-1, 3-phase variac-1 Wattmeter-1 Choke-3 Current transformer-2	Physitech	Anal og	1	