DISCIPLINE	SEMESTER	NAME OF THE TEACHING FACULTY
ELECTRICAL	3RD	MISS.SINDHUJA PANIGRAHI(PTGF)
SUBJECT:E&EM LAB	NO. OF DAYS PER WEEK CLASS ALLOTED : 04	SEMESTER FROM 14/07/2025 TO 15/11/2025
		NO. OF WEEKS : 15 NOS.

WEEKS	CLASS DAYS	THEORY TOPICS
1ST WEEK	1ST	Identify measuring instruments on the basis of symbols on dial, type, accuracy, class position and scale
	2ND	Identify measuring instruments on the basis of symbols on dial, type, accuracy, class position and scale
	3RD	Identify measuring instruments on the basis of symbols on dial, type, accuracy, class position and scale ,with record check and rubrics
	4TH	Identify measuring instruments on the basis of symbols on dial, type, accuracy, class position and scale ,with record check and rubrics
2ND WEEK	1ST	Identify the components of PMMC and MI instruments
	2ND	Identify the components of PMMC and MI instruments
	3RD	Identify the components of PMMC and MI instruments,with record check and rubrics
	4TH	Identify the components of PMMC and MI instruments,with record check and rubrics
3RD WEEK	1ST	Extend range of ammeter and voltmeter by using shunt and multiplier
	2ND	Extend range of ammeter and voltmeter by using shunt and multiplier
	3RD	Extend range of ammeter and voltmeter by using shunt and multiplier ,with record check and rubrics
	4TH	Extend range of ammeter and voltmeter by using shunt and multiplier ,with record check and rubrics
4TH WEEK	1ST	Use electro-dynamic watt-meter for measurement of power in a single phase circuit
	2ND	Use electro-dynamic watt-meter for measurement of power in a single phase circuit
	3RD	Use electro-dynamic watt-meter for measurement of power in a single phase circuit ,with record check and rubrics
	4TH	Use electro-dynamic watt-meter for measurement of power in a single phase circuit ,with record check and rubrics
5TH WEEK	1ST	Use single three phase wattmeter for measurement of active and reactive power of three phase-balanced load
	2ND	Use single three phase wattmeter for measurement of active and reactive power of three phase-balanced load
	3RD	Use single three phase wattmeter for measurement of active and reactive power of three phase-balanced load,with record check and rubrics
	4TH	Use single three phase wattmeter for measurement of active and reactive power of three phase-balanced load ,with record check and rubrics
6TH WEEK	1ST	Use two wattmeters for measuring active power of three-phase balanced load
	2ND	Use two wattmeters for measuring active power of three-phase balanced load
	3RD	Use two wattmeters for measuring active power of three-phase balanced load ,with record check and rubrics
	4TH	Use two wattmeters for measuring active power of three-phase balanced load,with record check and rubrics
7TH WEEK	1ST	Calibrate single-phase electronic energy meter by direct loading
	2ND	Calibrate single-phase electronic energy meter by direct loading

	3RD	Calibrate single-phase electronic energy meter by direct loading ,with record check and rubrics
	4TH	Calibrate single-phase electronic energy meter by direct loading ,with record check and rubrics
8TH WEEK	1ST	Use Kelvin's double bridge for measurement of low resistance
	2ND	Use Kelvin's double bridge for measurement of low resistance
	3RD	Use Kelvin's double bridge for measurement of low resistance ,with record check and rubrics
	4TH	Use Kelvin's double bridge for measurement of low resistance,with record check and rubrics
9TH WEEK	1ST	Use voltmeter and ammeter method for measurement of medium resistance
	2ND	Use voltmeter and ammeter method for measurement of medium resistance
	3RD	Use voltmeter and ammeter method for measurement of medium resistance,with record check and rubrics
	4TH	Use voltmeter and ammeter method for measurement of medium resistance,with record check and rubrics
10TH WEEK	1ST	Use Megger for insulation resistance measurements
	2ND	Use Megger for insulation resistance measurements
	3RD	Use Megger for insulation resistance measurements,with record check and rubrics
	4TH	Use Megger for insulation resistance measurements,with record check and rubrics
11TH WEEK	1ST	Use earth tester for measurement of earth resistance
	2ND	Use earth tester for measurement of earth resistance
	3RD	Use earth tester for measurement of earth resistance,with record check and rubrics
	4TH	Use earth tester for measurement of earth resistance,with record check and rubrics
12TH WEEK	1ST	Use Tri-vector meter for measuring kW, kVAr and Kva of a powerline
	2ND	Use Tri-vector meter for measuring kW, kVAr and Kva of a powerline
	3RD	Use Tri-vector meter for measuring kW, kVAr and Kva of a powerline ,with record check and rubrics
	4TH	Use Tri-vector meter for measuring kW, kVAr and Kva of a powerline,with record check and rubrics
13TH WEEK	1ST	Study of Resolution and sensitivity of Digital Instrument
	2ND	Study of Resolution and sensitivity of Digital Instrument
	3RD	Study of Resolution and sensitivity of Digital Instrument ,with record check and rubrics
	4TH	Study of Resolution and sensitivity of Digital Instrument ,with record check and rubrics
14TH WEEK	1ST	Measure the unknown frequency and phaseangle, using CRO by Lissajous figure
	2ND	Measure the unknown frequency and phaseangle, using CRO by Lissajous figure
	3RD	Measure the unknown frequency and phaseangle, using CRO by Lissajous figure,with record check and rubrics
	4TH	Measure the unknown frequency and phaseangle, using CRO by Lissajous figure,with record check and rubrics
15TH WEEK	1ST	Practice of previous experiments ,with record check and rubrics
	2ND	Practice of previous experiments ,with record check and rubrics
	3RD	Practice of previous experiments ,with record check and rubrics
	4TH	Practice of previous experiments ,with record check and rubrics

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