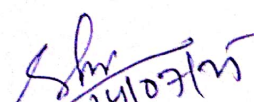


| DISCIPLINE | | SEMESTER | NAME OF THE TEACHING FACULTY | |
|------------------|------------|---|--|--|
| ELECTRICAL | | 3RD | MISS.SINDHUJA PANIGRAHI(PTGF) | |
| SUBJECT:E&EM LAB | | NO. OF DAYS PER WEEK CLASS ALLOTTED : 04 | SEMESTER FROM 14/07/2025 TO 15/11/2025 | |
| | | | NO. OF WEEKS : 15 NOS. | |
| 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 | | |
| 7TH WEEK | 4TH | Use two wattmeters for measuring active power of three-phase balanced load,with record check and rubrics | | |
| | 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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 14/04/25
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 HOD (ELECTRICAL)
 GOVT. POLY.
 GAJAPATI

