

# LESSON PLAN OF FUNDAMENTALS OF ELECTRICAL & ELECTRONICS ENGINEERING LAB

Course Code- PR 4(a)

(common to 1<sup>st</sup> & 2<sup>nd</sup> )

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SUB: FUNDAMENTAL OF ELECTRICAL & ELECTRONICS ENGG LAB

## PRACTICALS TO BE COVERED

NO OF PERIOD /WEEK:2	
WEEK-1	Determine the permeability of magnetic material by plotting its B-H curve.
WEEK-2	Measure voltage, current and power in 1-phase circuit with resistive load.
WEEK-3	Measure voltage, current and power in R-L series circuit.
WEEK-4	Determine the transformation ratio (K) of 1-phase transformer.
WEEK-5	Connect single phase transformer and measure input and output quantities.
WEEK-6	Make Star and Delta connection in induction motor starters and measure the line and phase values.
WEEK-7	Identify various passive electronic components in the given circuit
WEEK-8	Connect resistors in series and parallel combination on bread board and measure its value using digital multimeter.
WEEK-9	Connect capacitors in series and parallel combination on bread board and measure its value using multimeter.
WEEK-10	Identify various active electronic components in the given circuit.
WEEK-11	Use multimeter to measure the value of given resistor.
WEEK-12	Use LCR-Q tester to measure the value of given capacitor and inductor.
WEEK-13	Determine the value of given resistor using digital multimeter to confirm with colour code.
WEEK-14	Test the PN-junction diodes using digital multimeter.
WEEK-15	Test the performance of PN-junction diode.
WEEK-16	Test the performance of Zener diode.
WEEK-17	Test the performance of LED.
WEEK-18	Identify three terminals of a transistor using digital multimeter.
WEEK-19	Test the performance of NPN transistor.
WEEK-20	Determine the current gain of CE transistor configuration.
WEEK-21	Test the performance of transistor switch circuit.
WEEK-22	Test the performance of transistor amplifier circuit.
WEEK-23	Test Op-Amp as amplifier and Integrator