LESSON PLAN OF FUNDAMENTALS OF ELECTRICAL & ELECTRONICS ENGINEERING LAB

Course Code- PR 4(a)
(common to 1st & 2nd)

NO OF PERIOD /WEEK:2	EXPERIMENT TO BE COVERED
NAME: NIHARIKA SETHY, LECT: ETC, W.e.f: 16.08.2024 to 10.12.2024 **SUB: FUNDAMENTAL OF ELECTRICAL & ELECTRONICS ENGG LAB**	
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