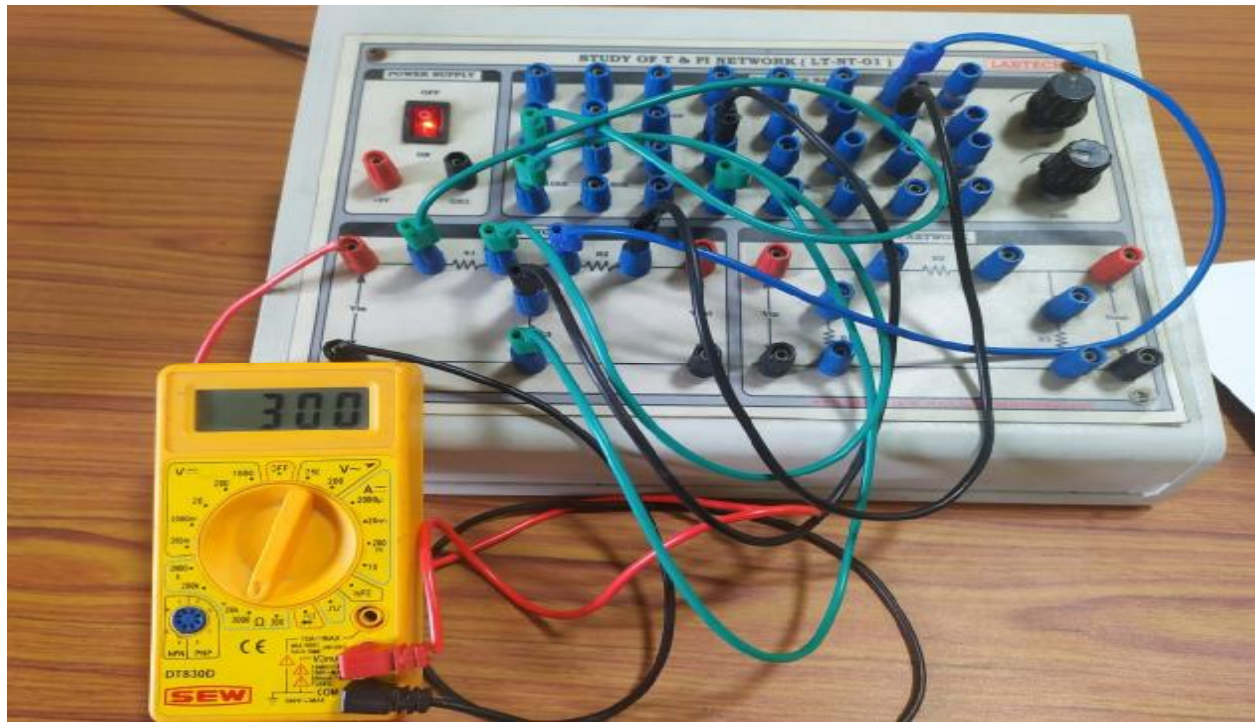
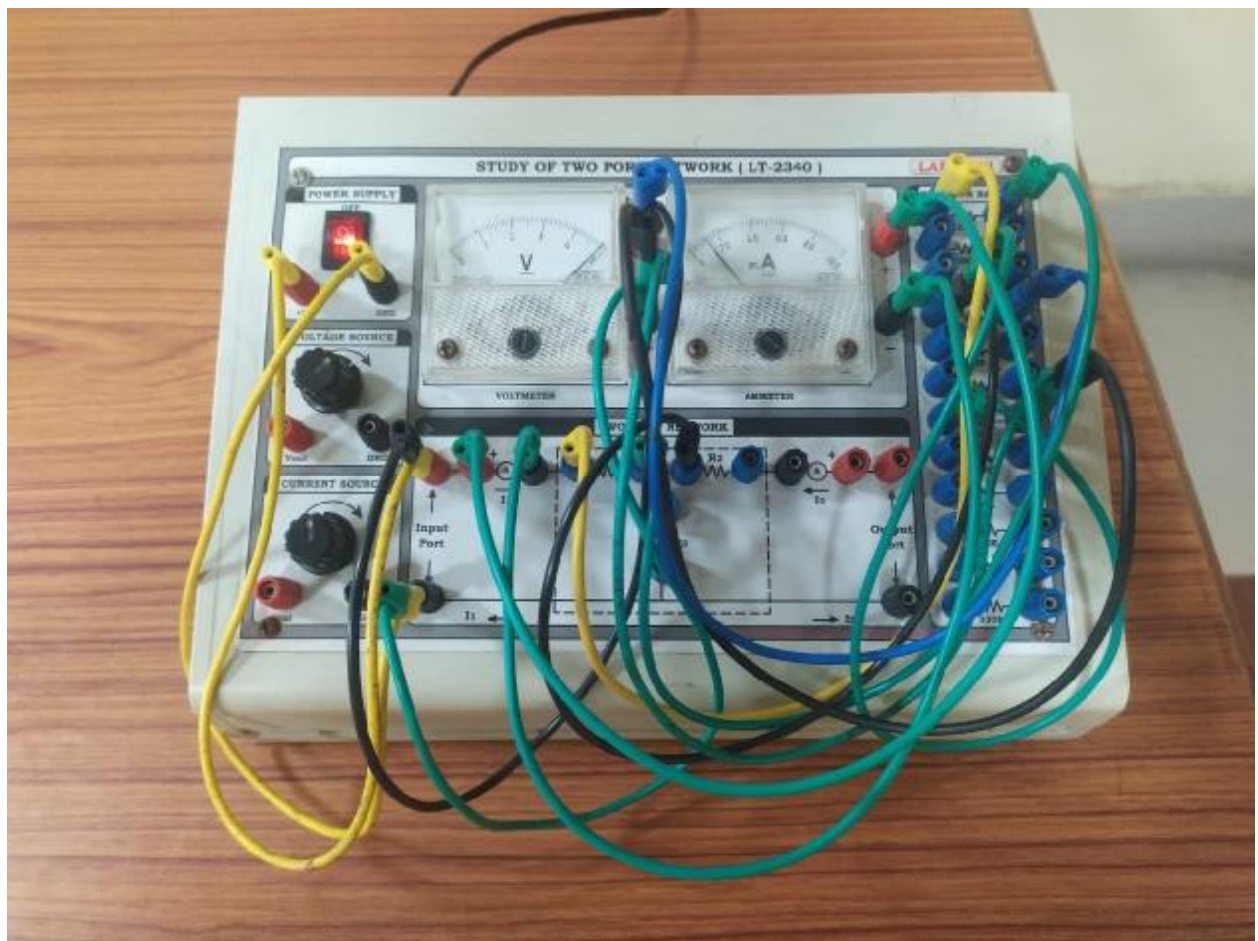
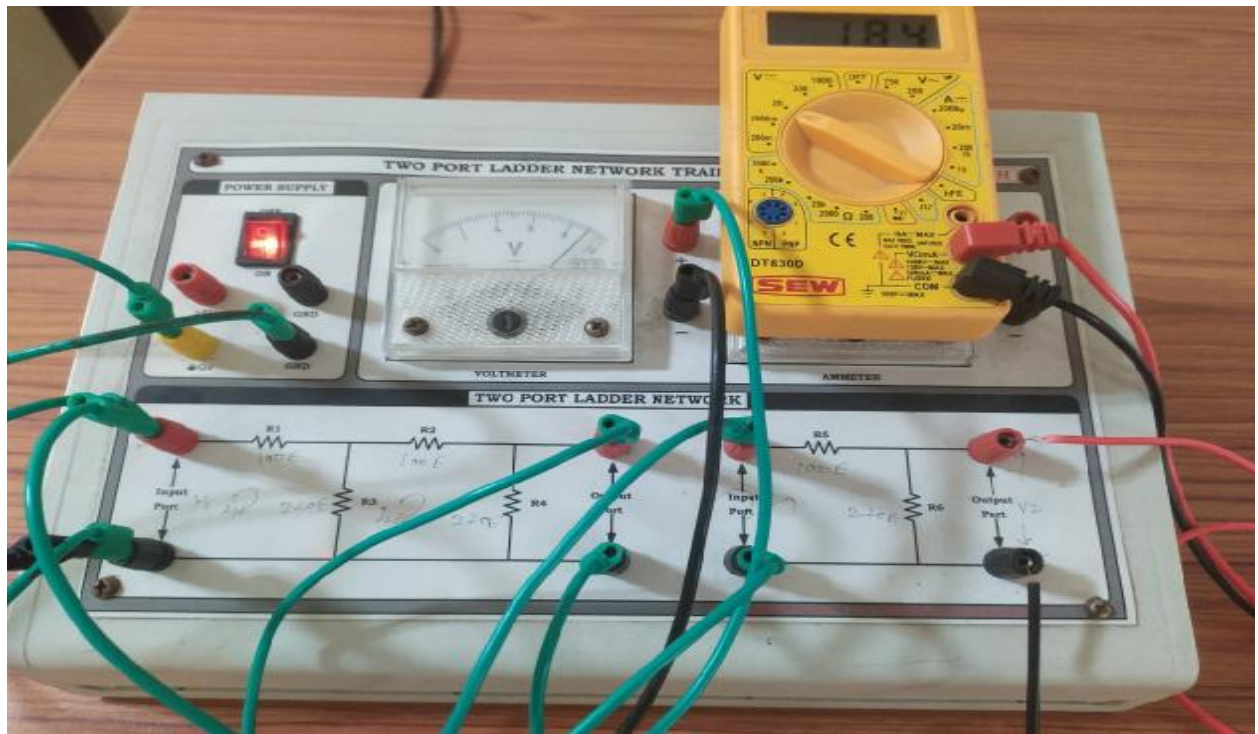


REE453: NETWORKS LAB

Note: Minimum ten experiments are to be performed from the following list, out of which there should be at least two software based experiments.

1. Verification of principle of superposition with AC sources.
2. Verification of Thevenin, Norton and Maximum power transfer theorems in AC circuits.
3. Verification of Tellegen's theorem for two networks of the same topology.
4. Determination of transient response of current in RL and RC circuits with step voltage input.
5. Determination of transient response of current in RLC circuit with step voltage input for
6. under damped, critically damped and over damped cases.
7. Determination of frequency response of current in RLC circuit with sinusoidal AC input.
8. Determination of z and h parameters (DC only) for a network and computation of Y and ABCD Parameters.
9. Determination of driving point and transfer functions of a two port ladder network and verify with theoretical values.
10. Determination of image impedance and characteristic impedance of T and Π networks, using O.C. and S.C. tests.
11. Verification of parameter properties in inter-connected two port networks: series, parallel
12. and cascade. Also study loading effect in cascade.
13. Determination of frequency response of a Twin – T notch filter.
14. To determine attenuation characteristics of a low pass / high pass active filters. Institute may add any two software based experiments [Develop Computer Program in 'C' language or use MATLAB or Electrical Domain Simulation Software: "Virtual HIL Device" (Free, Unlimited Users, Full. software)] in the above list





RAJKIYA ENGINEERING COLLEGE, AMBEDKAR NAGAR

INVENTORY SHEET

Department: **Electrical Engineering**

Inventory of Room No./Office: Network Lab

ELECTRICAL
ITEMS

SR .NO.	PRODUCT	QUANTITY
1.	STUDY OF TWO PORT NETWORK (LT-2340)	2
	TWO PORT LADDER NETWORK TRAINER (LT-3011)	2
2.	NETWORK THEOREM TRAINER (LT-PO1017)	2
3.	SUPER POSITION THEOREM WITH AC/DC SOURCE (LT-PO1008)	2
4.	TRANSIENT STUDY TRAINER (LT-3049/2325)	4
5.	FREQUENCY RESPONSE OF CORRENT IN RLC CIRCUIT (LT-00689)	2
6.	ACTIVE LOW PASS AND HIGH PASS FILTER	2
7.	STUDY OF INTERCONNECTED TO PORT NETWORK (LT-3045)	2
8.	STUDY OF T & PI NETWORK (LT-NT-01)	2
9.	STUDY OF TELLEGINS THEOREM (LT-2323)	2
10.	FREQUENCY RESPONSE OF TWIN – T NOTCH FILTER (LT-2322)	2
11.	MULTIMETER	2
12.	VOLTMETER	2
13.	AMETER (MILLIAMPERE)	6

