

CIRCUITS AND NETWORK LAB



Objective of Laboratory:

- To understand the basic concepts of networks and circuits.
- To understand the behavior of passive elements in the network for alternating and direct current supplies.
- To understand the basic concepts of three phase systems and relation between phase and line values.
- To understand the concept of two port networks and evaluation of their parameters.
- To understand the concept of simulating circuits in PSPICE.
- To understand the concept of various measurement bridges.
- To understand the principle and working of oscilloscopes.

Major Equipment in Circuits and Network Laboratory:

- Single and Dual Channel Oscilloscope.
- Multipurpose OP-AMP trainer kit.
- Superposition theorem kit.
- Thevenin's theorem kit.
- Reciprocity theorem kit.
- Maximum power transfer theorem kit.
- Function Generator.
- Dual supplies (0-±30 V).
- Artificial Transmission Line.
- 1-Phase transformer (1 KVA, 230/115V).
- Kelvin's double bridge measurement.
- Wheatstone bridge, Schering Bridge.
- PSPICE Simulation Software (Hardware lock based).

Name of officials handling the Laboratory:

- Sh. Mukesh Kumar(2015)(CA)
- Rahul (2016)(CA)
- Puneet Manocha(2017- July 2018)(JTA)
- Sandeep (July 2018-till now)(JTA)