

KARPAGA VINAYAGA COLLEGE OF ENGINEERING AND TECHNOLOGY

MADHURANTHAGAM-603 308.

Department: Electrical and Electronics Engineering

Year/Sem : I I/III

Sub code and Name: EE1152 ELECTRIC CIRCUIT LABORATORY

- 1. Verification of Kirchoff's voltage and current laws, Thevenin's and Norton's Theorems.**
- 2. Study of oscilloscope and measurement of sinusoidal voltage, frequency and power factor.**
- 3. Measurement of time constant of series R-C electric circuit.**
- 4. Frequency response of RC and RL circuits.**
- 5. Resonant frequency and frequency response of a series RLC circuit.**
- 6. Study of the effect of Q on frequency response and bandwidth of series and parallel resonant circuits.**
- 7. Study of low pass and high pass filters.**
- 8. Measurement of real power, reactive power, power factor and impedance of RC, RL and RLC circuits using voltmeters and ammeters.**
- 9. Power measurement in a three phase circuit by two Wattmeters.**
- 10. Study of first and second order circuit transients by digital simulation.**