



EE 242

CIRCUITS & MEASUREMENTS LAB

List of Experiments:

PART – A: CIRCUITS

- 1.Charging discharging characteristics of RC series circuit
- 2.Locus diagram of RC/RL circuit
- 3.Frequency response of a RLC series circuit
- 4.Parameters of two port network
- 5.Verification of Theorems
 - a. Thevenins Theorem
 - b. Norton Theorem
 - c. Super Position Theorem
 - d. Max power transfer theorem
- 6.Characteristics of Linear/ Non-linear and bi-lateral elements
- 7.Transient in RLC circuits
- 8.Application of PSPICE to electrical circuits

PART – B: MEASUREMENTS

- 1.Measurement of low resistance by Kelvin's double bridge
- 2.Calibration of Single phase energy meter by Phantom loading

- 3.Measurement of Inductance by Maxwell's and Andersons bridge
- 4.Measurement of capacitance by DeSauty's bridge
- 5.Measurement of Iron losses by Lloyd Fischer square
- 6.Use of DC Potentiometer for measurement of unknown voltage and impedance
- 7.Calibration of three phase energy meter(Electromagnetic/Static) by direct loading
- 8.Use of Oscilloscope and plotting BH curve and calculation of Iron loss

Note: At least 5 experiments should be conducted from each part.