



ELECTRICAL CIRCUITS LAB

CLASS : II Year II-Sem, EEE

LIST OF EXPERIMENTS

- 1. Thevenin's, Norton's and Maximum Power Transfer Theorems**
- 2. Superposition theorem and RMS value of complex wave**
- 3. Verification of Compensation Theorem**
- 4. Reciprocity, Millmann's Theorems**
- 5. Locus Diagrams of RL and RC Series Circuits**
- 6. Series and Parallel Resonance**
- 7. Determination of Self, Mutual Inductances and Coefficient of coupling**
- 8. Z and Y Parameters**
- 9. Transmission and hybrid parameters**
- 10. Measurement of Active Power for Star and Delta connected balanced loads**

****(Experiments beyond the syllabus)****

- 11. Measurement of Reactive Power for Star and Delta connected balanced loads**
- 12. Measurement of 3-phase Power by two Wattmeter Method for unbalanced loads**



POWER ELECTRONICS LAB

CLASS : EEE - III Year II-Sem

LIST OF EXPERIMENTS

- 1. Study of Characteristics of SCR, MOSFET & IGBT**
- 2. Gate firing circuits for SCR's**
- 3. Single Phase AC Voltage Controller with R and RL Loads**
- 4. Single Phase fully controlled bridge converter with R and RL loads**
- 5. Forced Commutation circuits**
(Class A, Class B, Class C, Class D & Class E)
- 6. DC Jones chopper with R and RL Loads**
- 7. Single Phase Parallel, inverter with R and RL loads**
- 8. Single Phase Cyclo-converter with R and RL loads**
- 9. Single Phase Half controlled converter with R load**
- 10. Three Phase half controlled bridge converter with R-load**

****(Experiments beyond the syllabus)****

- 11. Single Phase series inverter with R and RL loads**
- 12. Single Phase Bridge converter with R and RL loads**
- 13. Single Phase dual converter with RL loads**