

LIST OF EXPERIMENTS

Any ten of the following experiments are required to be conducted.

1. Study of the characteristics of SCR, MOSFET & IGBT.
2. Gate Firing Circuits for SCRs (R- Triggering, RC Triggering & UJT Triggering).
3. Single Phase AC voltage Controller with R & RL Loads.
4. Single Phase fully Controlled Bridge Converter with R& RL Loads.
5. DC Jones Chopper with R& RL Loads.
6. Single Phase Parallel Inverter with R& RL Loads.
7. Single Phase Cyclo-Converter with R& RL Loads.
8. Single Phase Series Inverter with R& RL Loads.
9. Single Phase Half controlled converter with R Load.
10. PSPICE simulation of single-phase full converter using RLE loads and single-phase AC voltage controller using RLE loads.
11. PSPICE simulation of resonant pulse commutation circuit and Buck Chopper.
12. PSPICE simulation of single phase Inverter with PWM control.