POWER ELECTRONICS LAB

LIST OF EXPERIMENTS

- 1. Characteristics of SCR, IGBT & Power MOSFET.
- 2. Analysis of Single phase AC voltage controller with R & RL Loads.
- 3. Analysis of Single phase fully controlled bridge converter With R & RL Loads.
- 4. Analysis of Single phase IGBT inverter with R and R-L Loads.
- 5. Analysis of Three phase fully controlled bridge converter with R Load.
- 6. Analysis of Single phase dual converter with RL load.
- 7. Analysis of Four quadrant operation of chopper with R-load.
- 8. Analysis of PWM control of Boost converter with R and R-L loads.
- 9. Simulation of Single Phase ac to dc converter with LC filter in MATLAB.
- 10. Simulation of Single phase inverter with current controlled PWM technique in MATLAB.

ADDITIONAL EXPERIMENTS

- 11. Analysis of single phase cyclo converter with R and R-L load.
- 12. Simulation of Single phase fully controlled PWM rectifier with R & RL loads using PSCAD.
- 13. Generation of PWM pulses using micro controller kit.