List of experiments

- 1. I-V and P-V characteristics with series and parallel combination of modules.
- 2. Effect of variation in tilt angle and shading on PV module power.
- 3. Power flow calculations of standalone PV system of DC load with battery.
- 4. Power flow calculations of standalone PV system of AC load with battery.
- 5. Power flow calculations of standalone PV system of DC and AC load with battery
- 6. Charging and discharging characteristics of battery.
- 7. Interfacing of hardware using RS232 ports and suitable software.
- 8. Evaluation of Active, Reactive Power & Apparent Energy Flow between Grid-Tied Inverter, Grid & Load and Net Metering concept
- 9. Grid Synchronization of Solar PV Inverter and it Performance Analysis
- 10. Impact of Transmission Line Inductance on Voltage Quality at PCC.