

**Name of the Lab : Renewable Energy Systems Laboratory**

**EE8712(Odd Semester)**

**Regulation 2017**

**LIST OF EXPERIMENTS (Recommended as per Anna University)**

1. Simulation study on Solar PV Energy System.
2. Experiment on “VI-Characteristics and Efficiency of 1kWp Solar PV System”.
3. Experiment on “Shadowing effect & diode based solution in 1kWp Solar PV System”.
4. Experiment on Performance assessment of Grid connected and Standalone 1kWp Solar Power System.
5. Simulation study on Wind Energy Generator.
6. Experiment on Performance assessment of micro Wind Energy Generator.
7. Simulation study on Hybrid (Solar-Wind) Power System.
8. Experiment on Performance Assessment of Hybrid (Solar-Wind) Power System.
9. Simulation study on Hydel Power.
10. Experiment on Performance Assessment of 100W Fuel Cell.
11. Simulation study on Intelligent Controllers for Hybrid Systems.

**TOTAL: 60 PERIODS**

**CONTENT BEYOND THE SYLLABUS**

1. Study of Solar Street Lighting and Lanterns
2. Study of MPPT algorithms

**Estd - 2001**