Experiment No 6

Title: Study of Wind Generators

Procedure:

1. Run the fan, and set the pitch angle of the wind machine at some fixed value, say 10 degrees. Connect a load resistance, an ammeter and a voltmeter to the wind generator. Vary the load in 10 steps and plot the power versus load resistances. Obtain the maximum power point.

2. For a fixed pitch angle, vary the wind speed and plot the maximum power versus wind speed. Take 10 readings.

3. For the fixed wind velocity, vary the pitch angle in steps of 5 degrees and plot the maximum power output versus pitch angle.

Report:

The three graphs and the conclusions derived from these.