**Renewable Energy Engineering**

***Extended exercise 2.1***

***Use of wind speed data and demonstration of Probability Density Functions, Cumulative Density Functions and a Wind Rose***

Using the set of 10-minute mean wind data, plot and explain a:

1. Binned Histogram of wind speed at each height
2. Probability Density Function of each anemometer
3. Cumulative Density Function of each anemometer
4. Wind Rose

***Data and Resources to support the Exercise***

* Data: FD1t50\_students.xlsx
* Explanation of data: Example 2.1 Wind resource explanation.ppt
* Example solution: Example 2.1 Example solution.ppt
* Matlab m. files to give example solution