AE3516A - Assignment

Introduction

The assignment aims at demonstrating one of the concepts covered in the course by writing a code in Python <u>and</u> designing a poster that presents the concept and explains how to interact with the code in lay-person terms and in a visual way. The outcome of the best assignments might be used as outreach materials for fellow students and society at large.

Examples of topics that could be demonstrated with the code are listed below, but not limited to:

- Energy yield as a function of turbine rating and number
- Wake effects
- Potential when moving further away from shore
- Economics trade-offs when designing an offshore wind farm

These topics can also be combined.

Work

You should work in teams (of about 4 members) and clearly indicate in the deliverables (see below) the contributions of each team member. Join a group on Brightspace (Collaboration – Groups – Assignment groups). Groups are open until the end of the course but it is advisable to start working on the assignment around week 3-4 of the course.

Deliverable

The assignment should deliver:

- A well-documented code in Python demonstrating, visually, the chosen concept and enabling user interactions. The documentation should explain the assumptions made and the contribution from each of the group members.
- A digital poster, answering in a visual way, the following questions: what is the concept chosen, why is it important, how is it demonstrated, what is it the outcome of the assignment, and how does it work.

These deliverables should be uploaded on Brightspace **before Monday 24 October at noon**.