## COURSE OUTLINE EXPERIMENTAL FLUID MECHANICS

(Prof. G.P. Romano) A.A. 2024-2025

## CLASSROOM LESSONS:

Background concepts and practical activities to be performed during laboratory practice. Basics of experimental fluid mechanics, measurement techniques and test facilities. Measurement errors (about 20 hours).

## LABORATORY PRACTICE (about 40 hours)

Signal & Data Analysis.

- 1. Performance of a VAWT in Wind Tunnel.
- 2. Drag of models in wind tunnel.
- 3. Measurements of the force due to the impact of a jet on surfaces.
- 4. Flow visualizations in wind tunnel.
- 5. Particle Image Velocimetry
- 6. Infrared Thermography