

# **COURSE OUTLINE**

## **EXPERIMENTAL FLUID MECHANICS**

**(Prof. G.P. Romano)**  
**A.A. 2025-2026**

### 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. Measurements of the force due to the impact of a jet on surfaces.
3. Flow visualizations in wind tunnel.
4. Particle Image Velocimetry
5. Infrared Thermography