

# UE Flow measurement science and technology



Level  
Baccalaureate  
+5



ECTS  
3 credits



Component  
UFR PhITEM  
(physique,  
ingénierie, terre,  
environnement,  
mécanique)



Semester  
Automne

- > **Teaching language(s):** French
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX9EFAK

## Presentation

### Description

- Context and objectives of flow measuring science
- Point-wise measuring probes (hot wire, hot film probes, Pitot tubes)
- Acoustical measuring systems (Acoustic Backscattering Systems, Ac. Doppler Profiler, Ac. Concentration and Velocity Profilers)
- Optical measuring systems (LDA, LDV, PIV, PTV, LIF, OBS)

The class ends with a 4h practical work to compare different measurement techniques on a test flow.

### Course parts

UE Flow measurement science and technology - CM	Lectures (CM)	15h
UE Flow measurement science and technology - TD	Tutorials (TD)	8h

**Period :** Semester 9

# Useful info

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## Place

› Grenoble

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## Campus

› Grenoble - University campus