UE Turbulence, diffusion and transport

Level
Baccalaureate +5

ECTS
6 credits

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

Semester
Automne

> **Teaching language(s):** French

> **Open to exchange students:** Yes

> **Code d'export Apogée:** PAX9EFAA

Presentation

Description

Fundamentals of fluid mechanics, vector analysis and tensor analysis. General questions on turbulence, multi-scale statistical description. Models of turbulent transport and turbulent mixing. Influence of rotation and density stratification effects. Numerical modeling of turbulence: first and second-order closure models, Reynolds averaged equations.

Course parts

UE Turbulence, diffusion and transport - CM	Lectures (CM)	42h

Period : Semester 9

Useful info

Place

> Grenoble

Campus

> Grenoble - University campus