


UE Geostatistics

 ECTS
3 credits

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

 Semester
Automne

- > **Teaching language(s):** English
- > **Open to exchange students:** No
- > **Code d'export Apogée:** PAX9ACAG

Presentation

Description

- Objectives
 - To be able to produce regionalized (spatial) data, e.g. on a watershed, using several methods.
 - To understand notions of meteorology (general circulation, thermodynamics, precipitation) and climatology (climate model, climate change scenario) required for hydrological forecasting.
 - To be aware of the need to take into account non stationarities (climate or change in land use) in long-term hydrological forecasting and management of water resources.
 - To be able to apply new methodologies for hydrological forecasting at several lags.
- Content

An approach linked with research is privileged in this in-depth module.
It is divided into three parts:

 1. Meteorology and climatology.
 2. Geostatistics and spatial data;
 3. Forecast and management of water resources in a non stationary context.

A short-project in the module called "Engineering of hydraulic structure" III will allow to link the three areas taught in this module.
- Evaluation

Session normale / First session
Evaluation rattrapable (ER) / ER assessment : devoir surveillé écrit de 3h / 3 hours supervised written exam

Evaluation non rattrapable (EN) / EN assessment : 3 comptes rendus de BE / 3 Lab reports

- Language : English

Course parts

UE Geostatistics - CM/TD

Lectures (CM) & Teaching Unit (UE)

42h

Useful info

Campus

- > Grenoble - University campus