UE Water quality and treatment

ECTS
6 credits

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

Semester
Automne

- **Teaching language(s):** English
- **Open to exchange students:** Yes
- **Code d'export Apogée:** PAX9GIAN

Presentation

Description

(i) Understand and model the main processes managing and impacting water quality (mainly surface water in this module) (ii) Development strategies in terms of development and depollution to limit its impacts (wastewater/rainwater treatment) (iii) Ensure the production of water suitable for different uses (domestic, industrial, etc.). An integrated approach to the phenomena is favoured, from upstream of the catchment area to downstream and the receiving environment. This module thus comprises 3 parts: (i) Water quality (ii) Water treatment bioprocesses (iii) Physico-chemical water treatment processes.
In terms of pedagogy, the tutorials include applications concerning the biogeochemical modeling of watercourses as well as the dimensioning of unitary water treatment processes. In addition, a mini project makes it possible to synthesize and relate the themes provided in this module in a more integrated way. These tutorials and this project correspond to one third of the module (counting 20 hours of personal work in addition to face-to-face sessions. The module is in ENGLISH. Beware, the number of place is limited (4 students/year) this module being shared with the ENS3/HOE option. The module is self-consistant.

Language : English

Course parts

CMTD	Lectures (CM) & Teaching Unit (UE)	60h

Useful info

Campus

- Grenoble - University campus