

Metrology Environment and Risks



ECTS
5 crédits



Hourly volume
76h

Introducing

Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

- the principles of environmental laws in France , and what tools to access legal informations
- the choice of suitable and argued measurements either for the analysis of environmental impacts or to process design
- what are the main environmental issues and principles of waste management
- the main risks in the process industry and mechanisms linked to accidents

The student will be able to:

- find and use legal informations (from legacy context) related to environmental law (ICPE , TGAP , environmental impacts, ...)
- choose and apply relevant method (s) in order to characterize the compounds and / or pollutants in complex environments or matrix doing a critical analysis of the methodology and the experimental results
- analyze a case of risk for Environment , to identify the categories of impacts, to describe pollution from the origin (=source) to the environmental targets
- analyze a situation of industrial risk, to identify and to calculate physico-chemical parameters of the involved phenomena and to propose technical solutions

Necessary prerequisites

General Chemistry
Biological reactors
Chemical engineering unit operations
Mass and energy balances

Practical info

Location(s)

 Toulouse