

Metrology Environment and Risks



ECTS 5 crédits



Hourly volume

76h

Introducing

Description

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

Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

Practical info

Location(s)



Toulouse

