

UE Nano-safety



Level
Baccalaureate
+5



ECTS
3 credits



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



Semester
Automne

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX9NCAG

Presentation

Description

Nanotechnologies give access to new and interesting properties of materials. Applications or potential applications of nanomaterials are today very numerous in research, industrial processes but also everyday life. As a consequence, impact on health and safety of those new substances becomes important. Indeed, assessment on life cycle analysis is a key element of development. This course presents the current knowledge and research regarding the potential risks associated to the development of nanotechnologies, organized around 3 axes:

- Toxicology and ecotoxicology current knowledge, thanks to presentation of latest scientific studies on the subject,
- occupational potential risks : how to manage an emerging risk ? what's mandatory ? what kind of metrology can we use ? what are the best practices in order to prevent impact on health and environment ?
- social perception of nanotechnologies over the world and over different cultures.

Course parts

UE Nano-safety - CM	Lectures (CM)	19,5h
UE Nano-safety - TP	Practical work (TP)	4h

Period : Semester 9

Useful info

Place

› Grenoble

Campus

› Grenoble - University campus