UE Characterization of bio-molecular interactions at surfaces

Level
Baccalaureate +5

ECTS
3 credits

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

Semester
Automne

- **Teaching language(s):** French, English
- **Open to exchange students:** Yes
- **Code d'export Apogée:** PAX9NBAE

Presentation

Description

Introduce the main analytical techniques to characterize molecular and biomolecular interactions, nanomaterials, surfaces and interfaces will be presented by the lecturers.

- Electronic microscopies
- Near field microscopies (AFM,STM,SNOM,…)
- Note that a more detailed approach of these techniques is available as an elective course.
- Surface analysis (XPS, AES, SIMS, EXAFS…)
- X-ray diffraction
- Large facilities (neutrons, ESRF)
- Optical techniques (ellipsometry, spectroscopies, SPR, OWLS,..)
- Nanogravimetry

Course parts

UE Characterization of bio-molecular interactions at surfaces - CM	Lectures (CM)	20h

Period : Semester 9

Useful info

Place

Grenoble

Campus

Grenoble - University campus