



Faculté des sciences appliquées

FSA

MAPR2631 **Solid surface analysis and treatment**

[22.5h+22.5h exercises] 4 credits

This course is taught in the 1st semester

Teacher(s): Patrick Bertrand (coord.), Jacques Devaux, Alain Jonas, Bernard Nysten
Language: french
Level: 2nd cycle course

Aims

Critical initiation of the students to the new physics based analysis methods for solid surface and interface characterization at the atomic scale.

Main themes

- Introduction to Surface Science
- Electron spectrometries: LEED, AES, XPS
- Ion spectrometries: ISS, RBS, SIMS
- Ion sputtering for depth profiling

Other credits in programs

MATR22 Deuxième année du programme conduisant au grade (4 credits)
d'ingénieur civil en science des matériaux