

5.0 credits	37.5 h + 15.0 h	2q
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Teacher(s) :	Delcorte Arnaud (compensates Bertrand Patrick) ; Bertrand Patrick (coordinator) ; Nysten Bernard ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	Physico-chemical and physical bases of selected techniques used in surface science. Examples of applications in different fields of materials science are presented. Practical training are organized on selected techniques.
Aims :	Critical initiation of the students to the physics based analysis methods for solid surface and interface characterization at the atomic scale. <i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Content :	<ul style="list-style-type: none"> <li>- Introduction to Surface Science</li> <li>- Electron spectrometries: LEED, AES, XPS</li> <li>- Ion spectrometries: ISS, RBS, SIMS</li> <li>- Ion sputtering for depth profiling</li> <li>- Near field microscopies : STM, AFM,</li> </ul>
Other infos :	MAPR2011 or a similar course is a pre-requisite to this course
Cycle and year of study :	<a href="#">&gt; Master [120] in Electrical Engineering</a> <a href="#">&gt; Master [120] in Electro-mechanical Engineering</a> <a href="#">&gt; Master [120] in Physical Engineering</a> <a href="#">&gt; Master [120] in Chemical and Materials Engineering</a> <a href="#">&gt; Master [120] in Biomedical Engineering</a> <a href="#">&gt; Master [120] in Physics</a>
Faculty or entity in charge:	FYKI