

Asociación de Universidades Grupo Montevideo (AUGM)

Cursos Virtuales 2021-2020

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| Título | Surface Characterization Methods: Principles, Techniques, and Application |
| Breve descripción | The course aims to introduce surface science, which is concerned with the properties and chemistry of surfaces and interfaces on an atomic length scale. Principles behind the most important spectroscopic and microscopic methods used in surface science will be considered. X-ray Photoelectron Spectroscopy will be deeply discussed. |
| Contenido | <p>Content (Syllabus outline)</p> <ol style="list-style-type: none">1. Introduction to surface science: motivation, typical investigated systems and UHV environment2. Basic introduction on surface systems: crystalline surface structure, reconstructions.3. Principles behind the most important spectroscopic and microscopic methods used in surface science, which information that is attained from these techniques and how various methods can be combined.4. Spectroscopic investigation techniques (UPS, XPS, AES)5. Photoelectron Spectroscopy: Principles and Case Studies. |
| Profesor responsable | Paulo Noronha Lisboa Filho |
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| Cuatrimestre | 2021 - Segundo |
| Carga horaria | 45 horas |
| Cantidad de alumnos | Libre |