CCMX Winter School - Nanoparticles: From Fundamentals to Applications in Life Sciences

Various lecturers

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<th>Cursus</th>
<th>Sem.</th>
<th>Type</th>
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<td>Science et génie des matériaux</td>
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<td>Obl.</td>
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**Language** English  
**Credits** 2  
**Session** Oral presentation  
**Workload** 60h  
**Hours** 34  
**Lecture** 22  
**Exercises** 12

**Frequency**  
Every year

**Summary**  
Organised as 5 modules, the course addresses nanoparticles production, physico-chemical properties and risk assessment, biological and toxicological effects, in a variety of technological and clinical applications. It offers a skill set relevant to the participants research projects and careers.

**Content**  
Please find the information on the following link:  

**Keywords**  
Physico-chemical properties, synthesis and surface engineering, interaction of nanoparticles with the biological matrix, with biomolecules, with membranes and cells, nanotoxicological behaviour in animal and human models, medical and imaging applications of nanoparticles

**Learning Prerequisites**  
Recommended courses  
Master in materials science, chemistry, physics, biology, pharmaceutical sciences or life sciences

**Assessment methods**  
Oral presentation