NANOTECHNOLOGIES

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Lecturers: Virginie MONNIER-VILLAUME

| Lecturers : 0.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : FR

Objectives

Nanotechnologies receive each year tremendous investments in research and development. Therefore it is a business sector in strong growth. Nanosciences and nanotechnologies are crossing several scientific fields such as electronics, mechanics, chemistry, optics, biology that manipulate objects at the nanometer size. The objective here is to allow generalist engineers to acquire both technical and scientific knowledges to manage transverse projects and technology transfer. Mixing sciences for the engineer and life sciences, this diploma field proposes high level training in strong interaction with industrial needs in information and communication technologies.

Keywords :

Programme

NANO3.1 – Memories for the Internet of Things
NANO3.2 – Smart surfaces
NANO3.3 – Photonics guiding
NANO3.4 – Nano-optics

Learning outcomes

- Model and set up a multidimensional system with interdependent and/or non deterministic components.
- Set hypotheses and evaluate their impacts/their limits.
- Apply knowledges to the resolution of pluridisciplinar problems.
- Analyze in a critical way good practices and progress opportunities.

Independent study

Objectifs :

Méhodes :

Core texts

Assessment

Students must follow the two first courses and make a choice between the two last courses. NANO3.1 : 33% ; NANO3.2 : 33% ; NANO3.3 : 33% or NANO3.4 : 33%.