

# GS\_Soft-Nano\_UE\_Research Methodologies



Level  
Baccalaureate  
+4



ECTS  
6 credits



Component  
UFR PhITEM  
(physique,  
ingénierie, terre,  
environnement,  
mécanique)



Semester  
Automne

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** PAX7NFAG

## Presentation

### Description

This course is open and mandatory only for students taking part to the Thematic Program (PT) Soft Nano (Graduate School).

Students undertake a research project in soft nanosciences, starting by an appropriation phase. The goal of the course is to learn how to plan, set-up, and write, a research proposal.

#### Content

Students spend 1+1/2 day per week in their research team. In addition the group meets on a weekly basis, and works on the following topics:

- reading and synthesizing the scientific literature
- understanding the novelty of the approach to be developed
- defining the research objectives
- defining the new tools /techniques/ know-how needed for the project, starting to acquire them
- elaborating a tentative schedule for implementation of the 2-year research work, with milestones

*Students take turns in presenting their progress to the promotion.*

In addition to this continuous activity, they are evaluated at the end of the term through:

- the submission of a research proposal (about 15 pages, including a state-of-the-art, novelty and objectives of approach, new instrumentation/ elaboration/ numerics/ methodology to be developed, expected outcomes, scheme and schedule of implementation)
- an oral public presentation and defense of their proposal, in presence of all the promotion and of a unique pluridisciplinary jury for all students.

**Period :** Semester 7

## Useful info

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### Campus

- Grenoble - University campus
- Grenoble - Saint-Martin d'Hères