


UE Humanities and engineering

 ECTS
3 credits

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

 Semester
Printemps

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes

Presentation

Description

- **Project management:** The objectives of this class are to supply the bases of the project management as well as to present the good practices in industries. The quality management according to the standards ISO and the piloting by process are presented through industrial projects.

This class contains a method to establish a CV as well as simulations of real recruitment interview.

- **Industrial and Research seminars:** Invited keynote speakers give a short class on their research topic. The lectures (typically 15h) are given in the scope of the Master and in G2Elab laboratory. They focus on the latest results in a specific topic of dynamical systems, electromagnetic and multiphysics numerical modeling, and may include some labs to illustrate specific aspects.

The attendance is composed as Master and Ph.D students, as well as engineers, researchers and professors.

- **Philosophical and ethical awareness seminars:**

- around the position and impact of digital/computing technology
- around ethics in technology and science,
- and other fields of philosophical/societal questioning around the role of science and scientific progress.

Assessment: The course requirements include the preparation of a poster according to the research theme of the invited speakers. The preparation of the poster will build on the seminars of the keynote invited speakers and a bibliography, which will be provided by the lecturers to the students, who will then have to analyze, interpret and present the main results of the developed methods. The final exam consists of a discussion given in the presence of the class.



Course parts

CMTD	Lectures (CM) & Teaching Unit (UE)	15,5h
TP	Practical work (TP)	10h

Recommended prerequisites

A basic knowledge in dynamical systems, linear algebra, electromagnetism and numerical modeling methods is expected.

Useful info

Campus

> Grenoble - Scientific Polygon