

Elements of linear viscoelasticity

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General Information

The lectures introduce the methods of rheology and the use of mechanical models to describe the phenomenology of viscoelasticity, with principal attention on linear viscosity. Experimental problems are addressed and dynamic experimental techniques are introduced to determine parameters able to describe the behaviour of a large class of materials.

The course will be held in English, in presence.

Materials

Bibliographic references will be provided.

Schedule

Dates	Description
5th March 2026	Phenomenological aspects of viscoelasticity; introduction to rheology; mechanical models for viscoelastic materials (3h).
12 March 2026	Experimental approaches: transient and dynamic tests (2h). Learning assessment (1h).
Total: 6 Hours – 1 Credit	

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International Doctorate in Civil and Environmental Engineering