

Fluid mechanics

Introducing

Description

Fluid mechanics for Civil Engineers :

- Properties of real fluids
- Pressurized flows in cylindrical pipes (gravity networks; pump-network coupling)
- Open-channel flows in uniform flow conditions

Objectives

Fluid Mechanics of Real Fluids

By the end of the session, the student will be able to:

- Apply the generalized Bernoulli equation and perform head loss calculations;
- Design gravity-driven and pressurized flow networks;
- Select an appropriate pump;
- Estimate flow rates for uniform open-channel flows.

Necessary prerequisites

Fluid statics. Real fluid flow.

Évaluation

L'évaluation des acquis d'apprentissage est réalisée en continu tout le long du semestre. En fonction des

enseignements, elle peut prendre différentes formes : examen écrit, oral, compte-rendu, rapport écrit, évaluation par les pairs...

Practical info

Location(s)

 Toulouse