

Open channel flows



Component
École Nationale
Supérieure
d'Électrotechnique
d'Électronique

In brief

- **Ametys Code:** M4R9VDFU
- **Open to exchange students:** No

Presentation

Objectives

- Model free-surface flows using Saint Venant theory
 - Use industrial codes to describe free-surface flows in 1D and 2D on concrete cases.
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Description

The Free Surface Hydraulics course is divided into five sections:

HSL course: lectures, tutorials and written exam

Experimental project: experimental projects illustrating the concepts of the theory course

Digital project: digital TPs illustrating the concepts of the theory course

1D and 2D modeling: 1D and 2D modeling using the HEC-RAS code, case study

(Channel control)