

# AMCO2155 Hydraulics project

[60h] 4 credits

This course is taught in the 2nd semester

Teacher(s):	Didier Bousmar, Yves Zech
Language:	French
Level:	Second cycle

## Aims

- Introduce the issues of hydraulic structure design by the projecting approach
- In interaction with the course "hydraulic structures", learn to collect documentation and to design hydraulic structures

## Main themes

- Design and calculation of an hydraulic structure
- Calculation note redaction and structure plan drawing
- Public presentation of the project

#### **Content and teaching methods**

The project theme is determined in function of the students' interests and of the available data; It is thus selected among the following topics:

- Large dams and auxiliaries

- River structures: navigation locks or river dams
- Urban hydraulic structures

# Other information (prerequisite, evaluation (assessment methods), course materials recommended readings,

...)

- Complementary topic for theme "Hydraulics"

- Prerequisites: AMCO 2151 "General and statistical hydrology", AMCO 2152 "Hydraulics", AMCO 2153 "Fluvial

- hydraulics" and AMCO 2154 "Hydraulic structures"
- Teaching approach :
- \* evaluation of data quality and of available documentation
- \* eventually, data improvement by field measurement campaign
- \* first approach by group discussion
- \* learning of non- taught topics by problem-centred approach
- \* opening to the socio-economic context
- Evaluation : written report, oral presentation

#### Other credits in programs

GC22	Deuxième année du programme conduisant au grade	(4 credits)
	d'ingénieur civil des constructions	