

Faculty of Applied Sciences



AMCO2175 Methods of design and geotechnical control

[30h+15h exercises] 4 credits

This course is taught in the 1st semester

Teacher(s): Alain Holeyman, Jean-François Thimus
Language: French
Level: Second cycle

Aims

The aim is to give the main keys to build a geotechnical project

Main themes

- Impact of geological and hydrogeological parameters to choice site and design of civil works
- Presentation of the main geophysical prospecting methods
- Building of geotechnical campaign
- Control during civil works realisation

Content and teaching methods

- Geotechnical cartography
- Geophysical methods : resistivity, refraction seismic, microgravimetry, radar, diagraphes
- Geotechnical methods : CPT, SPT, boring and sampling, pressiometer, dilatometer, lab tests
- Control of geotechnical behaviour for excavation, foundation, fill, settlement, piezometry, inclinometer

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

- Prerequisite : AUCE 1171, AUCE 1172, AUCE 1173, AUCE 1174
- Theoretical cursus, lab visits, case histories

Other credits in programs

FSA3DS/GC	Diplôme d'études spécialisées en sciences appliquées (génie civil)	(4 credits)
GC23	Troisième année du programme conduisant au grade d'ingénieur civil des constructions	(4 credits)