Remarque
pas donné en 2018-19

Summary
This course aims at providing a solid methodological foundation for understanding the principles and the applicability of geophysical techniques relevant for addressing hydrogeological and related environmental problems. The goal is to provide students with pertinent decision making capabilities.

Content
Surface- and borehole-based geophysical techniques suitable for the characterization of the vadose and saturated zones

Keywords
applied geophysics, hydrogeophysics, soil and rock physics, aquifer, vadose zone

Learning Prerequisites
Important concepts to start the course
Basic knowledge and interest in subsurface hydrology and soil physics

Learning Outcomes
By the end of the course, the student must be able to:
• Assess / Evaluate
• Decide
• Analyze

Transversal skills
• Communicate effectively with professionals from other disciplines.
• Give feedback (critique) in an appropriate fashion.
• Use a work methodology appropriate to the task.

Teaching methods
Lectures, exercises, self-learning
Expected student activities
exercises, literature study

Assessment methods
100 % continuous control:
40 % exercises during the semester
60 % written final exam at the end of the semester

Supervision
Office hours No
Assistants No
Forum No
Others Communication via moodle and informal meetings upon agreement.

Resources
Bibliography
Recommended:

Complementary:

Ressources en bibliothèque
• Hydrogeophysics / Rubin
• Groundwater Geophysics / Kirsch
• An Introduction to Geophysical Exploration / Kearey

Moodle Link
• http://moodle2.unil.ch/course/view.php?id=2819