

- Faculté des sciences
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Alluvial aquifer systems: from quaternary geology to surface water-groundwater

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en hydrogéologie et géothermie	Cours: 40 pg	contrôle continu: 1	4

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Automne

Equipe enseignante:

S. Wirth, P. Brunner, D. Hunkeler, M. Schirmer, C. LeBayon

Objectifs:

The goal of the course is to illustrate the formation, importance and functioning of alluvial aquifer systems.

Contenu:

Introduction to quaternary geology
Sedimentary processes leading to the formation of alluvial aquifer systems
Soil formation and the role of soil and vegetation for groundwater dynamics and water quality
Surface water groundwater interactions
River renaturation in the context of alluvial systems
The importance of alluvial systems for water supply

Forme de l'évaluation:

marked assignment

Documentation:

Handouts of presentations, documentation of the excursions

Pré-requis:

Introduction to hydrogeology

Forme de l'enseignement:

Courses and excursions