

- Faculté des sciences
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Numerical modelling of transport and geomechanical processes I (3GH2224)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en hydrogéologie et géothermie	Cours: 28 pg	Voir ci-dessous	3

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

Période d'enseignement:

- Semestre Printemps

Equipe enseignante

J. Epting, Zechner E.

Contenu

This course introduces lectures and exercises on Numeric Modeling, Groundwater flow and heat-transport. After an introduction and an overview of the fundamentals of thermodynamics, different degrees of complexity of heat transport and density-dependent flow modeling (GIS approaches, GIS, FeFlow, hydraulic & thermal numerical calculations) are covered. The focus is on shallow and medium-depth geothermal energy.

Forme de l'évaluation

Semester work (contrôle continu noté), final presentation

Modalités de rattrapage

Students are required to submit 4 short reports, whether they were physically present or not

Documentation

Powerpoint lectures, documents & data for exercises

Pré-requis

Hydrogeological Systems, Resource Management, Geodynamics, Geothermics

Forme de l'enseignement

lectures and in-class exercises