UE5 Applied sedimentology and Georesources (in English and French)

Niveau d'étude
BAC +5

ECTS
6 crédits

Composante
UFR Sciences
Vie Terre
Environnement

Présentation

Description

Visualization of sedimentary bodies in space and time is essential to draw basin architecture and reconstruct spatialized sedimentary depositional system. At the regional scale such reconstruction strongly relies on seismic geomorphology and wells correlation within the framework of sequential stratigraphy concepts. A number of informatic tool and software, of industrial use, became prevalent in this field of applied Geosciences and many applications, such as reservoir characterization, are advance using stratigraphic modeling. This teaching unit aims notably at manipulating such software using various example of reservoir geology and georesources applications.

- 2D/3D Seismic geomorphology (Total Corporate Software – Sismage®)

- Stratigraphic modeling (Beicip-Franlab and IFP Energies Nouvelles - DionisosFlow® software)

- reservoir geology and georesources

Objectifs

Applying the concepts of sequential stratigraphy and wells correlation in order to reconstruct depositional environments and basinal architecture evolution through time.

Knowing how to operate DionisosFlow® software.

Knowing how to interpret results from DionisosFlow® & Sismage® software.

Acquiring an integrative understanding of basin sedimentology from field observations (UE1S5) to modeling and simulation.

Heures d'enseignement

TD	Travaux Dirigés	30h

Pré-requis obligatoires

M1STPE or equivalent Master 1 degree

Modalités de contrôle des connaissances

Évaluation initiale / Session principale

Type d'évaluation	Nature de l'évaluation	Durée (en minutes)	Nombre d'épreuves	Coefficient de l'évaluation	Note éliminatoire de l'évaluation	Remarques
CT (contrôle terminal)	Ecrit sur table			1.5		

Seconde chance / Session de rattrapage

Type d'évaluation	Nature de l'évaluation	Durée (en minutes)	Nombre d'épreuves	Coefficient de l'évaluation	Note éliminatoire de l'évaluation	Remarques
CT (contrôle terminal)	Ecrit sur table			1.5		

Infos pratiques

Campus

› Campus de Dijon