

UE Remote sensing and GIS project







> Teaching language(s): French, English

> Teaching type: Lectures

> Open to exchange students: Yes

> Code d'export Apogée: PAX8GRAE

Presentation

Description

This course offers a broad and practical introduction to Earth Observation from space and to Geographic Information System (GIS). The course works on a basis of 3h lecture associated to 3h of practical work using the free software QGIS. Course are usually given in French. In addition, a project using QGIS has to be by small groups of students, including 9h (3x3h) with teacher support in computer room.

The structure of the courses is:

first part is common to all the student (from January to February winter break)

- + Introduction to GIS: 3h course + 3h practical
- + Basics of Remote Sensing (1): 3h course + 3h practical
- + Basics of Remote Sensing (2): 3h course + 3h practical
- + Classification methods: 3h course + 3h practical

The second part of the course depends of the program followed by the students :

for Geophysics, Geodynamics, Georesources and Georisks programs:

- + Remote-Sensing and GIS applied to geology: 3h course
- + Remote-Sensing and GIS applied to geophysics: 3h course
- + Remote-Sensing and GIS applied to continental surfaces: 3h course
- + Remote-Sensing and GIS applied to planetology: 3h course + 3h practical

for Hydro-resources and Atmosphere-Climate-Continental Landmass programs:





- + Remote-Sensing and GIS applied to continental surfaces: 3h course
- + Remote-Sensing and GIS applied to Digital Elevation Surface: 3h course + 3h practical
- + Remote-Sensing and GIS applied to atmosphere: 3h course
- + Remote-Sensing and GIS applied to Ocean: 3h course

Evaluation will be based on a written exam at mid-term, a written report about the project, and a final written exam covering all the lectures and practicals.

Course parts

CM Lectures (CM) 36h

UE Remote sensing and GIS project - TP Practical work (TP) 24h

Period: Semester 8

Useful info

Contacts

Program director

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Place

> Grenoble

Campus

> Grenoble - University campus

