UCLouvain

lgeo1342
2019

Geographical Information Systems (GIS)

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

5 credits	30.0 h + 30.0 h	Q1

Teacher(s)	Vanwambeke Sophie ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	*The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.*
Aims	1 -To develop an understanding of the basic principles and of the functionalities of a Geographical Information System, including spatial data acquisition, storage, and manipulation, spatial analysis techniques, and the creation and presentation of a GIS. -To master the use of a GIS software (e.g. ArcView GIS and its extension Spatial Analyst) -To develop the competence to present and analyse spatial data within the frame of a GIS. - - - - *The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Evaluation methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** Theoretical written exam(40%); class activities (including eg the presentataion of a geotechnology) (20%); practical written exam (40%). THe marks obtained for class activites are attached to all session of the academic year.
Teaching methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** Lectures integrating elements of flipped classroom and presentations by professionals. Practical sessions.
Content	Develop an understanding of the basic principles and functionalities of a geographic information system, including acquisition, storage, and processing of spatial data, spatial analysis methods, the creation and presentation of a GIS. Master the use of a GIS software (eg ArcView GIS and the "spatial analyst extension"). Develop the capacity to present and analyse spatial data in a GIS.
Inline resources	https://moodleucl.uclouvain.be/mod/page/view.php?id=509975
Faculty or entity in charge	GEOG

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Geography : General	GEOG1BA	5	LGEO1241	🔍
Master [120] in History of Art and Archaeology : General	ARKE2M	5		🔍
Master [120] in Population and Development Studies	SPED2M	5		🔍
Master [120] in Public Health	ESP2M	5		🔍
Minor in Geography	LGEOG100I	5		🔍
Advanced Master in Quantitative Methods in the Social Sciences	LMQS2MC	5		🔍