







5.00 credits

30.0 h + 30.0 h

Q1

Teacher(s)	Vanwambeke Sophie ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	<i>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.</i>
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>-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.</p>
Evaluation methods	<p>Theory: written exam during the session (30%), course activities (continued evaluation and a presentation on geotechnology) (20%); practicals (50%): written practical exam in the session.</p> <p>Same modalities in the second session. The marks of course activities are attached to each exam session in the academic year.</p>
Teaching methods	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	All useful ressources are on Moodle.
Faculty or entity in charge	GEOG

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Population and Development Studies	SPED2M	5		
Master [120] in History of Art and Archaeology : General	ARKE2M	5		
Master [120] in Public Health	ESP2M	5		
Minor in Scientific Culture	MINCULTS	5		
Bachelor in Geography : General	GEOG1BA	5	LGEO1241	
Minor in Geography	MINGEOG	5		
Advanced Master in Quantitative Methods in the Social Sciences	LMQS2MC	5		