







5.00 credits

30.0 h + 30.0 h

Q1

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|-----------------------------|---|
| Teacher(s) | Vanwambeke Sophie ; |
| Language : | French |
| Place of the course | Louvain-la-Neuve |
| Learning outcomes | <p>At the end of this learning unit, the student is able to :</p> <p>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.</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> <p>Succeeding in both the practical and theoretic evaluation is indispensable to demonstrate the competence and knowledge expected at the issue of the course. Failing either theory or practice will automatically lead to failing the whole unit.</p> |
| Teaching methods | Lectures integrating elements of flipped classroom and presentations by professionals. Practical sessions. |
| Content | <p>The course offers to acquire theoretical and conceptual principles that underpin the use of geographic information systems (GIS), and to learn the use of a GIS software.</p> <ul style="list-style-type: none"> • 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. • 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 resources are on Moodle. |
| Faculty or entity in charge | GEOG |

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