UCLouvain

lbirf2106a

2019

Management of ecological habitat and species conservation

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.

3 credits	15.0 h + 15.0 h	Q1

Teacher(s)	Jacquemart Anne-Laure (coordinator) ;Titeux Nicolas ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	Population dynamics in heterogeneous landscapes, spatial distribution of habitats and species, assessment of species conservation status at landscape or regional scale, evaluation of habitat suitability for particular species, biodiversity monitoring schemes, identification of key elements within a landscape for species survival and reproduction, threats and solutions in biodiversity conservation from the population to the landscape levels, techniques in restoration and management of natural and semi-natural biotopes, hunting and game management practices, game biology and management, monitoring techniques of game populations, analysis of the habitat used by red deer and equilibrium between game populations and forests.
Aims	*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.** Oral or written exam (depending on the number of students) on theoretical courses and applied seminars, and field trips
Teaching methods	**Due to the COVID-19 crisis, the information in this section is particularly likely to change.** Support : Slides of lectures and seminars in English or French available via the iCampus website. Teaching team: 3 teachers and several invited speakers for seminars and field trips.
Content	Lecture established in the form of interconnected modules based on theoretical courses with field trips (2 days) and several seminars on applied themes (invited speakers). Module 1: Biodiversity monitoring: theoretical background and applications. Principles and techniques of biodiversity inventory: sampling design and data collection across a variety of spatial and temporal scales. Evaluation of conservation status for species and biotopes.'Module 2: Spatial modelling of species distributions: conceptual background and applications from landscape to continental scale. Identification of environmental requirements for species to guide appropriate management practices. Prediction of species distribution dynamics in space and over time under changing environmental conditions. Module 3: management and conservation of natural and semi-natural biotopes. Techniques of restoration and management applied to open biotopes. Forest management and biodiversity: importance of open areas in forests and dynamics in forest cycles. Managing and restoring ecological networks: Natura 2000 network in Wallonia. Module 4: game species management in Wallonia. Historical and present backgrounds of game management. Biology and management of several game species: monitoring techniques of game populations, use of indicators, calculation of shooting plans, tools and guidelines in habitat use analysis. Module 5: field visits including game species management, management and restoration techniques applied in protected areas and LIFE projects,. data collection for biodiversity monitoring purpose.
Inline resources	Moodle
Bibliography	**S** upport(s) de cours obligatoires Diapositives du cours en ligne sur Moodle Supports de cours facultatifs Livres de référence sur la gestion des milieux
Other infos	This course can be given in English.
Faculty or entity in charge	AGRO

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Environmental Bioengineering	BIRE2M	3		