UCLouvain

lbirf2106

2023

Analyse et gestion des habitats et des espèces

5.00 credits	30.0 h + 22.5 h	Q2

Teacher(s)	Jacquemart Anne-Laure (coordinator) ;Pairon Marie ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	Basic notions in ecology and population ecology; phytosociology
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.
Learning outcomes	**At the end of this learning unit, the student is able to :** 1 Evaluating the suitability of habitats for the species at local scale (with a particular focus on open biotopes), but also at landscape or regional scale, in order to implement appropriate environmental management strategies with a particular view to preserving, maintaining or restoring fauna and flora, as well as ecosystem functioning. Evaluating the status of (game) animal or plant species and estimating the suitability of their habitat in a region in order to implement appropriate management strategies: conservation, regulation or eradication. AA M1.1, M1.2, M1.3, M1.4, M2.4. Students will be able to - Evaluate the quality of biotopes and of habitats for different animal species - Present and compare different techniques in habitat restoration and management - Propose techniques for species monitoring including game species - Develop game management strategies
Content	Lectures established in the form of interconnected modules based on theoretical courses with field trips (4 days) and several seminars on applied themes (invited speakers). Theoretical background and applications. Vegetation analysis and surveys, indicator species, conservation. Biodiversity monitoring:. sampling design and data collection. Evaluation of conservation status for species and biotopes.Management and conservation of natural and semi-natural biotopes. Techniques of restoration and management applied to open biotopes. Managing and restoring ecological networks: Natura 2000 network in Wallonia. Field surveys.
Inline resources	Moodle
Bibliography	Support(s) de cours obligatoires Jacquemart A.-L. & Descamps C. 2023. Flore écologique de Belgique. Supports de cours facultatifs Livres de référence sur l'analyse de la végétation et la gestion des milieux et des espèces
Faculty or entity in charge	AGRO

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Forests and Natural Areas Engineering	BIRF2M	5		🔍
Master [120] in Environmental Bioengineering	BIRE2M	5		🔍