UCLouvain

lbirf2106

Analyse et gestion des habitats et des espèces

2021

5.00 credits

30.0 h + 22.5 h

Q2

Teacher(s)	Jacquemart Anne-Laure ;				
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 :				
	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				
	¹ 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				
Evaluation methods	Oral or written exam (depending on the number of students) on theoretical courses and applied seminars, and field trips				
Teaching methods	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) as 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 acro a variety of spatial and temporal scales. Evaluation of conservation status for species and biotopes. Module Spatial modelling of species distributions: conceptual background and applications from landscape to continen scale. Identification of environmental requirements for species to guide appropriate management practice Prediction of species distribution dynamics in space and over time under changing environmental condition Module 3: management and conservation of natural and semi-natural biotopes. Techniques of restoration a management applied to open biotopes. Forest management and biodiversity: importance of open areas in forest and dynamics in forest cycles. Managing and restoring ecological networks: Natura 2000 network in Wallon 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 indicato calculation of shooting plans, tools and guidelines in habitat use analysis. Module 5: field visits including gar species management, management and restoration techniques applied in protected areas and LIFE projects,. da collection for biodiversity monitoring purpose.				
Inline resources	Moodle				
Bibliography	S upport(s) de cours obligatoires				
2.2.10graphy	Diapositives du cours en ligne sur Moodle				
	Supports de cours facultatifs Livres de référence sur la gestion des milieux				
	James de l'oloronee du la gestion des milieux				

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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	Learning outcomes		
Master [120] in Biology of Organisms and Ecology	BOE2M	5		٩		
Master [120] in Forests and Natural Areas Engineering	BIRF2M	5		٩		