

Due to the COVID-19 crisis, the information below is subject to change, in particular that concerning the teaching mode (presential, distance or in a comodal or hybrid format).

3 credits	15.0 h + 15.0 h	Q1
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Teacher(s)	Ponette Quentin ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	<p>1. Main concepts:</p> <ul style="list-style-type: none"> <li>- basic concepts of forest management: time, space, optimal felling ages/dimensions, normal forests, annual allowable cut;</li> <li>- steps in forest management: analysis, synthesis, implementation, follow-up/monitoring;</li> <li>- specification of forest management based on the type of society (forest, agricultural, industrial, post-industrial);</li> <li>- key management methods in temperate zones: uniform systems, selection system, irregular stands, conversion and transformation;</li> <li>- taking into account the production of social and environmental services (biodiversity, landscape, public hosting, ...);</li> <li>- development and management of forest formations in warm regions: tropical rainforests, other forest biomes, plantations, agro-forests and trees outside forests, analysis of context, approaches and techniques of planning and management, cross-cutting themes.</li> </ul> <p>The concepts related to the management of temperate forests are implemented in the companion course entitled 'Integrated project in forest and open habitat planning' LBIRF2212.</p>
Aims	<p>a. <u>Contribution de l'activité au référentiel AA (AA du programme)</u> M1.1, M1.2, M1.4, M1.5, M2.1, M2.2, M2.4, M6.1, M6.2, M6.4, M6.9, M8.5</p> <p>b. <u>Formulation spécifique pour cette activité des AA du programme (maximum 10)</u></p> <p>At the end of the course, students will have acquired the skills to:</p> <ol style="list-style-type: none"> <li>1 - master the concepts and methods involved in the different steps associated with the planning process of forests located in temperate and tropical regions - analysis, synthesis, implementation, follow-up;</li> <li>- select, analyze and synthesize data from diverse disciplines such as resource assessment, management, analysis of social and environmental impacts, etc.;</li> <li>- establish management plans at the forest ownership scale, integrating the constraints, risks and opportunities from various fields and stakeholders;</li> <li>- develop sound management decisions for tropical ecosystems, based on a deep understanding of their ecology and issues associated with them.</li> </ol> <p>-----</p> <p><i>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".</i></p>
Evaluation methods	<p><b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b></p> <ul style="list-style-type: none"> <li>- written examination;</li> <li>- evaluation of a group work on the design and implementation of a monitoring system for a forest management plan at the ownership scale.</li> </ul>
Teaching methods	<p><b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b></p> <ul style="list-style-type: none"> <li>- lectures including practical examples, case studies and active learning mini-activities;</li> <li>- seminars by stakeholders from the socio-professional and scientific spheres;</li> <li>- presentations by teams of students of a forest management case study, with discussions and feedback;</li> <li>- supervised analysis of a management plan of a public forest;</li> <li>- delineation of forest stands and parcels.</li> </ul>
Content	<p>Table of contents</p> <ul style="list-style-type: none"> <li>- context</li> <li>- management steps: analysis; synthesis; implementation; follow-up/monitoring</li> <li>- main management concepts: space-related concepts; time-related concepts; other concepts</li> </ul>

	<ul style="list-style-type: none"> <li>- silvicultural systems, silvicultural treatments et optimal felling age/dimension: general approach; classification of silvicultural treatments and management methods; determination of optimal felling ages and dimensions</li> <li>- management of evenaged forests: normal forest; regeneration cuttings and regeneration effort; groups; allowable cuts</li> <li>- management of irregular / unevenaged forests: particularities ; normal forest; allowable cuts; follow-up and control; conditions of application</li> <li>- stand conversion and transformation</li> <li>- multifunctional role of forests: historical context; legal context; institutional context; history of management methods</li> </ul>
Inline resources	Moodle
Bibliography	<p>Les supports de cours obligatoires (diapositives power point, documents de référence) sont mis à disposition de l'étudiant sur Moodle.</p> <p>Pour en savoir plus, l'étudiant pourra consulter utilement les ouvrages de référence suivants :</p> <ul style="list-style-type: none"> <li>- de Turckheim, B., Bruciamacchie, M. 2005. La futaie irrégulière. Théorie et pratique de la sylviculture irrégulière, continue et proche de la nature. Edisud, Aix-en-Provence, France, 286 p.</li> <li>- Dubourdiou, J. 1997. Manuel d'aménagement forestier. Gestion durable et intégrée des écosystèmes forestiers. Lavoisier Tec&amp;Doc, Paris, France, 243 p.</li> </ul>
Other infos	This course can be given in English.
Faculty or entity in charge	AGRO

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Forests and Natural Areas Engineering	BIRF2M	3		