UCLouvain

lbirf2102

2019

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.

4 credits	30.0 h + 7.5 h	Q2

Teacher(s)	Vincke Caroline ; French					
Language :						
Place of the course	Louvain-la-Neuve					
Main themes	working methods of machines: advantages and constraints, calculating the profitability or productivity, soil and ands protection; ransport service: network designs for different purposes (operation, maintenance,), implementation criteria rofitability, landscape and environmental integration,), creation (specifications) and maintenance; work planning, drafting of tenders and specifications, site organization; cod technology: echnical implementation of wood as an engineering material: splitting, sawing, peeling, slicing, gluing, drying d preservation; echnical implementation of wood as a raw material for: panel manufacturing, paper, chemical processing of other, fuelwood; ovel methods of improving the properties of wood, in particular modified by copolymerisation and heat treatment other; invironmental impacts of wood processing.					
Aims	Contribution de l'activité au référentiel AA (AA du programme) M1.1, M1.2, M1.4, M1.5, M2.1, M2.2, M2.4, M6.1, M6.2, M6.4, M6.9, M8.5 b. Formulation spécifique pour cette activité des AA du programme (maximum 10) At the end of this activity, the student is able to: - Select and plan appropriate forestry, integrating the technical, ecological and economic aspects introduced in order to ensure sustainable management of land and forest resources; - Understand and compare the methods and techniques of industrial use of wood as a material and raw material by integrating theoretical concepts underlying and presented during the course; - Develop a comprehensive and critical view of current issues in the timber industry by integrating environmental, technical and economic to sustainable management of the forest resource. 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. The exam is based on issues that may be of "definition", or based on a theoretical development, targeted or transverse. Indeed, the ability to link the concepts of the different chapters is a learning outcome of the course.					
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. The course takes the form of a lecture (requiring a face-to-student), accompanied by active learning mini-activities (guided and Review, recurring quiz) and concrete examples and news. According to the news and opportunities, guest speakers are participating in this course. An excursion is organized in business and on the ground. One day of the forest tour in Master 2 is focused on those topics.					
Content	1. Table of content The detailed table of contents of an academic year is given at the first class by the teacher. • General introduction on wood industry • Part 1. First transformation -Chapter I. wood sawing -Chapter II. Peeling and slicing of wood -Chapter III. wood drying -Chapter IV. wood preservation • Part 2. Second transformation					

Université catholique de Louvain - - en-cours-2019-lbirf2102

	-Chapter V. wood pannels -Chapter VI. Paper industry -Chapter VII. modified wood
Inline resources	Moodle
Bibliography	Ouvrages de référence : - Bary-Lenger et al., 1999, Transformation et industries du bois en Europe, Ed. du Perron, 557p Walker J.F.C., 1992, Primary wood processing – principles and practice, Ed. Chapman and Hall, 595pPense-Précis Bois, 1984, Ed. H. Vial, 564 pManuel scierie. Techniques et matériels. CTBA, 397p.
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 Forests and Natural Areas Engineering	BIRF2M	4		Q			