LBRAI2201

2015-2016

Integrated exercises in agronomy

3.0 credits	30.0 h	1q

Teacher(s) :	Gerin Patrick ; Baudry Olivier ; Lambert Richard (coordinator) ;
Language :	Français
Place of the course	Louvain-la-Neuve
Inline resources:	iCampus
Prerequisites :	Background in biology, ecology, plant science, soil science, climatology, economics, management (bachelor or Bioengineer).
Main themes :	Critical analysis and in situ assessment of a range of agricultural activities (orchards, field crops, forage crops, cash crops) or peri-agricultural (forestry, hunting, waste management, food processing, renewable energy) starting from the agroecosystem to the industry level, through the prism of sustainability in its economic, social and environmental dimensions. Taking measure of the complexity of the work of the farmer or engineer and of key stages underlying the decision-making process. Analysis of the challenges and opportunities together with the innovations implemented by farmers to address them.
Aims :	a. Contribution of instruction with regards to the referential of leaning outcomes M1.4, M1.5 M2.4, M2.5 M3.7 M4.3, M4.7 M6.5. M7.1. b . Specific formulation for this activity AA program (maximum 10) At the end of this activity, the student is able to: ' Confront theoretical knowledge to the reality of the field. ' Mobilize knowledge to articulate pertinent questions dealing with current complex agricultural issues ' Use acquired knowledge and interaction with the industry to critically analyze the functioning of agricultural enterprises and their specific contexts. ' Diagnose complex situations and synthesize relevant recommendations in a summary report. *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 :	Written report in which the students critically analyze and assess the visited entities/companies in terms of resource use efficiency and socioeconomic and environmental criteria underlying sustainability.
Teaching methods :	Field visits, presentations from various professionals.
Content :	The course consists of a weeklong series of visits to agricultural companies and various structures representative of agricultural activities that the students will analyze critically with respect to the dimensions of sustainability in an ad hoc report. Visited professionals present in detail their company structure, objectives and constraints. The student is therefore exposed to the realities of the field while interacting directly with the professionals. At the end of the visits a half-day long debriefing session is organized with the students.
Bibliography :	Instruction material Some chapters of the course LBIRA 2109A and other bibliographic sources relevant for the writing the synthesis report.
Faculty or entity in charge:	AGRO

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Agricultural Bioengineering	BIRA2M	3	-	