

4.0 credits	30.0 h	1q
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Teacher(s) :	Draye Xavier ; Heroufousse François ; Van Damme Julie ; Larondelle Yvan (coordinator) ;
Language :	Français
Place of the course	Louvain-la-Neuve
Inline resources:	iCampus
Prerequisites :	All core courses in "Bioengineering" and Master BIRA programs
Main themes :	The interdisciplinary agronomy project requires groups of 3-4 students to put together an innovative project proposal dealing with a topical issue. In doing so, they will take into account its impact on economic, environmental, ethical and social dimensions of sustainability. The assessment is based on the written project as well as the oral defense (presentation and response to questions) .
Aims :	<p>a. Contribution of instruction with regards to the referential of leaning outcomes 1.4, 1.5 , 2.4, 2.5 , 4.1 ' 4.7, 5.1 ' 5.9 , 6.1 ' 6.8, 7.2 ' 7.5</p> <p>b . Specific formulation for this activity AA program (maximum 10) At the end of this activity, the student will be able to :</p> <ul style="list-style-type: none"> <li>- know and understand the process of project management, from project formulation to evaluation ;</li> <li>- work with his peers within a collaborative framework effectively and constructively to put together an innovative and interdisciplinary project ;</li> <li>- understand and critically use bibliographic/technical data, in French or English, in order to identify and dissect a complex problem into different components (biological, environmental, economic, ethical and social) ;</li> <li>- use the knowledge acquired during training and identify new knowledge required to solve a complex problem;</li> <li>- organize data and prepare a concise, synthetic, rigorous and convincing written report;</li> <li>- draft a realistic and balanced tentative budget;</li> <li>- effectively communicate verbally during the project presentation</li> <li>- convince the audience during the questions/answers session while maintaining a positive attitude and respectful dialogue.</li> </ul> <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 :	The assessment is bases on 3 parts: (i) report evaluation (ii) oral presentation and (iii) answers to questions
Teaching methods :	Supervising and guiding students during their project development
Content :	The course is instructed over one semester. A call for proposals for innovative solutions to current societal issues is presented to students during the first meeting. Each group has to develop an innovative project that takes into account the specific objectives and requirements of the call and especially the economic, environmental, ethical and social impacts of their project. The themes chosen by the groups are then presented to the instructors during a second session and are discussed and refined with them if necessary. The groups will then organize their investigative work independently and interact with the instructors on a consultative basis. These consultancy meetings are held a number of times during the semester. Final written versions of the proposals are sent at the end of the semester and then defended orally before an audience consisting of the instructors and external experts. A question / answer session will follow each presentation.
Bibliography :	Literature review using in the databases available at UCL, other documents and various reports available from companies, professional associations, and ministries. Interviews with experts.
Other infos :	This course can be given in English.
Faculty or entity in charge:	AGRO

<b>Programmes / formations proposant cette unité d'enseignement (UE)</b>				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Agricultural Bioengineering	BIRA2M	4	-	