LBRPP2205

2013-2014

Plant chemistry : diagnostics and recommendations

5.0 credits	60.0 h	1q

Teacher(s) :	Bragard Claude (coordinator) ; Legrève Anne ;
Language :	Français
Place of the course	Louvain-la-Neuve
Inline resources:	iCampus: PowerPoint files
Prerequisites :	LBIRA2106
Main themes :	Problem-based learning of plant clinic principles and practice
Aims :	a. Contribution of the activity to the LO (LO from the program) 1.1 to 1.5 ; 2.1 to 2.4 ; 3.1 to 3.9 ; 4.1 à 4.7 ; 6.2 to 6.8 ; 7.1, 7.2, 7.3, 7.5 ; 8.1 to 8.6 b. LO from the program specific to this activity At the term of the activity, the student will be able to: - identify precisely the causes of abiotic and biotic plant diseases; - recommend a control measure adequately chosen for a given plant disease or pest; - Work out the current diagnostic methods in plant pathology; - Categorize and list the data available on a given plant disease and pest; *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 :	Students are evaluated on their ability to provide a correct diagnostic and adequate advices for the control of a plant pest or disease.
Teaching methods :	Problem-based approach developed with the students, based on case studies. This approach requires an active presence of the students which have to learn how to identify the plant pest and diseases, search amongst the bibliographic resources and master the required identification techniques, from the microscope to molecular one.
Content :	This lecture is divided in two parts. The first part is dedicated to learn the basis of plant diseases and pest hands on diagnostic. The second part is a problem-based approach of plant diseases: the students are given plant pathology related problems to be solved first with the help of the lecturers, then by a student team approach and finally by the student alone. A choice of targeted examples will allow the design of intervention strategies, applied to viroids, viruses, mycoplasma and phytoplasma, bacteria, fungi as well as physiological disorders. Examples of mites and insects will also be given.
Bibliography :	Files on iCampus. Numerous references available at the Plant Pathology Laboratory Library. Systematic use of plant pests and diseases images. The UCL libellule library system is used frequently.
Cycle and year of study :	> Master [120] in Agricultural Bioengineering
Faculty or entity in charge:	AGRO