

5 credits

60.0 h

Q1 and Q2

Teacher(s)	Bragard Claude ;Legrève Anne coordinator ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	LBIRA2106 <i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes	Problem-based learning of plant clinic principles and practice
Aims	<p>a. <u>Contribution of the activity to the LO (LO from the program)</u> 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</p> <p>b. <u>LO from the program specific to this activity</u></p> <p>At the term of the activity, the student will be able to:</p> <p>1</p> <ul style="list-style-type: none"> - 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; <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	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.
Inline resources	Moodle : PowerPoint files
Bibliography	L'étudiant a recours à la bibliographie disponible dans le domaine de la pathologie végétale, via le système UCL libellule notamment. Nombreux ouvrages et publications disponibles et à disposition des étudiants.
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 Agricultural Bioengineering	BIRA2M	5	LBRPP2103	