UCLouvain

lbrpp2213

2025

Biotechnology and diagnosis

3.00 credits	22.5 h + 7.5 h	Q1

Teacher(s)	Bragard Claude (coordinator) ;Legrève Anne ;
Language :	French > English-friendly
Place of the course	Louvain-la-Neuve
Learning outcomes	
Evaluation methods	The assessment is based on the student's ability to develop, apply and analyze diagnostic methods. These skills are tested during practical work and following an exam.
Teaching methods	Teaching is given face-to-face. Practical work is organized to allow students to develop and apply certain methods.
Content	This course presents the different techniques used to establish the diagnosis of the biotic causes of diseases and characterize infectious agents. The different analysis methods are presented on the basis of a problem approach in plant health: microscopies (optical, fluorescence, confocal, electronic), serology (ELISA immunoenzymatic method), molecular biology (PCR, RT-PCR, quantitative PCR, northern blot, western blot microscopic), sequencing (by hybridization, high throughput), …
Inline resources	Moodle and other sources available online
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 lecture might be given in english.
Faculty or entity in charge	AGRO

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Biochemistry and Molecular and Cell Biology	BBMC2M	3		
Master [120] in Agricultural Bioengineering	BIRA2M	3		