UCLouvain

lbir1251

2022

Plant physiology

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Teacher(s)	Draye Xavier (coordinator) ;Lutts Stanley ;				
Language :	French				
Place of the course	Louvain-la-Neuve				
Prerequisites	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.				
Learning outcomes					
Evaluation methods	Written exam and evaluation of the group work (final presentation).				
Teaching methods	Ex-catherdra course with practicals in groups and in project mode.				
Content	The water relations of the plant are detailed: notions of water potential and its components, water transport in the soil-plant-atmosphere continuum, stomatal regulation and the importance of water relations at the cell and tissue level. The bases of mineral nutrition are specified: interactions between the root system and the soil, notions and functions of essential elements, cellular and transcellular transport. The light phase of photosynthesis is described in relation to the structure of the photosynthetic apparatus. The dark phase is approached by integrating the problem of gas exchanges and the efficiency of water use. The transport of assimilates is detailed: loading and unloading of the phloem, distribution of assimilates according to source-well relationships.				
Inline resources	Moodle: powerpoint slides, modelling exercices				
Bibliography	Transparents des cours. Le cours suit assez fidèlement le livre (disponible en BST) Plant Physiology (Taiz and Zeiger).				
Faculty or entity in charge	AGRO				

Programmes containing this learning unit (UE)						
Program title	Acronym	Credits	Prerequisite	Learning outcomes		
Bachelor in Bioengineering	BIR1BA	5	LBIR1150 AND LBIR1151	•		