UCLouvain

lbrai2106c

2021

Phytotechnie - Cultures fruitières

1.00 credits	6.0 h + 4.0 h	Q2

Teacher(s)	Bertin Pierre ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	Baccalaureate courses in bioengineering or exact sciences, particularly general and plant biology, ecology, earth sciences. Bioengineering master courses: plant production, agrarian systems. Other desired courses: soil sciences, biosphere engineering, systems analysis.
Main themes	Topics covered : Crop science of the main field crops and horticultural crops in temperate regions; tropical field crops. Evolution of the state of the land and crops during the seasons. Work to be carried out (tillage, sowing, fertilization, weeding, phytosanitary treatments, harvests) ' Recognition of weeds of field crops at an early stage and specific keys of determination. Partim A: field crops and market gardening in temperate regions Partim B : tropical cultures Partim C: fruit crops in temperate regions
Learning outcomes	
Evaluation methods	Written exam. Cross-curricular and synthesis questions aimed at evaluating the reasoned and critical approach to agricultural practices.
Teaching methods	Lectures, largely illustrated with photos and diagrams, visits to agricultural service websites (warnings, manuring advice), direct observation of engine parts - Follow-up of culture development by plant dissection - Farm tours with agricultural service specialists and farmers
Content	Partim A: field crops and market gardening in temperate regions - Lectures : Rotation, tillage and sowing, organic and mineral fertilization, ecological requirements and crop cycles, phytosanitary protection (weeds, diseases, pests), harvests, environmental impact, excursions: farm visits (conventional, organic and conservation agriculture) - excursions: farm visits Partim B : tropical cultures - Lectures : Cropping systems and main agricultural ecologies of tropical regions; food crops; perennial crops; crop associations Partim C: fruit crops in temperate regions Horticultural techniques in fruit growing (cutting, grafting, layering); physiology of growth, flowering and fruiting; growing systems
Inline resources	Moodle
Bibliography	Nombreuses sources en ligne d'institutions de service agricole (CIPF, IRBAB, CEPICOP, Terres Inovia...) Références données dans les montages powerpoint Numerous online sources of agricultural service institutions (CIPF, IRBAB, CEPICOP, Terres Inovia...) References given in the Powerpoint presentations
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	Learning outcomes
Master [120] in Agricultural Bioengineering	BIRA2M	1		
Master [120] in Forests and Natural Areas Engineering	BIRF2M	1		