PHYTOPATHOLOGY (II nd Year of study, SEMESTER I and II)

Credit value (ECTS) Sem. I=4, Sem. II=4

Course category

Domain (Imposed)

Course holder:

Prof. dr. Eugen ULEA

Fodder plant diseases

Discipline objectives (course and practical works)

The analytical program aims to instill the knowledge by students concerning etiology, symptomatology, the epidemiology and measures for prevention and control of plant disease. Practical application aims to familiarize students

Contents (syllabus)			
Course (chapters/subchapters)			
Semester I			
Phytopathology as a science.			
General notions about plant diseases			
Infectious phytopathogenic agents overview			
Phytopathogenic agents			
Infectious diseases pathogenesis			
Epidemiology of parasitic diseases			
Preventing and combating plant diseases			
Measures to prevent the intoxications and pollution in plant protection			
Phytopathology as a science.			
Semester II			
Vegetable Diseases			
Crucifer and umbellifer diseases			
Fruit trees diseases			
Grapevine diseases			
Diseases of root and tuber crops			
Diseases of cereal, pea and bean crops			
Ornamental plant Diseases			
Practical works			
Semester I			
Parasitic aspects- anatomical and morphological changes produced by viruses, mycoplasma, bacteria			
and pathogenic fungi			
Phytopathological material harvest			
Micromycetes morphology			
Vegetative reproduction and asexual reproduction of micromycetes. Sexual reproduction: oospore,			
zygospore, ascus.			
Sexual reproduction: basidium			
Prevention and control of diseases caused by pathogens in plants			
Peas and beans diseases			
Potato diseases: viruses, bacteriosis, mycosis			
Sugar -beet diseases			

Practical works
Semester II

Vegetables diseases
Apple, pear and quince trees diseases
Plum, cherry, apricot and peach diseases
Grapevine diseases
Diseases of root and tuber crops
Diseases of cereal, pea and bean crops
Ornamental plant diseases

Bibliography

- 1. Iacob Viorica, Hatman M., Ulea, E., Puiu I., 1999 Fitopatologie general, Ed. Cantes, Ia i.
- 2. Iacob Viorica, 2003 Fitopatologie Ed. Ion Ionescu da la Brad Ia i.
- 3. Ulea, E., 2003 Fitopatologie horticol, Ed. Ion Ionescu da la Brad Ia i.
- 4. Hatman M. i colab.: Protec ia plantelor. Ed. CERES, Bucure ti, 1986.
- 5. Henegar Monica, Andru Monica, Codexul produselor de protec ie a plantelor omologate pentru utilizare în România, Ed. Andagra, Arad, 2013
- 6. Iacob Viorica: *Bolile plantelor cultivate-prevenire i combatere*, Ed. "Ion Ionescu de la Brad", Ia i, 2008
- 7. R dulescu E., Rafail C.: *Tratat de fitopatologie agricol* , vol. II, Ed. Academiei Republicii Socialiste România, Bucure ti 1970
- 8. Agrios George, 2005 Plant pathology, Ed. Elsevier Academic Press

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade	
Exam	Oral examination	60%	
Appreciation of the activity during the semester	Test+ practical application+ herbarium	40%	

Contact

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