

PHYTOPATHOLOGY (II nd Year of study, SEMESTER I)

Credit value (ECTS) 4

Course category

Domain (Imposed)

Course holder:

Lecturer PhD Andreea-Mihaela FLOREA

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 ornamental plant diseases. Practical application aims to familiarize students with the technical work in the laboratories of plant protection, and with the recognition of disease.

Contents (syllabus)

Course (chapters/subchapters)
Semester I
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
Viruses and mycoplasmas- General characteristics
Phytopathogenic bacteria- General characteristics
Phytopathogenic micromycetes- General characteristics
Lucruri practice-Semestrul I
Parasitic aspects- anatomical and morphological changes produced by viruses, mycoplasma, bacteria and pathogenic fungi
Phytopathological material harvest
Micromycetes morphology
Asexual and sexual reproduction of micromycetes
Sexual reproduction of micromycetes
Prevention and control of diseases caused by pathogens in ornamental plants
Ornamental plant viruses
Bacterial diseases of ornamental plants
Fungal diseases of ornamental plants- <i>downy mildews</i>
Fungal diseases of ornamental plants - <i>powdery mildew</i>
Fungal diseases of ornamental plants – <i>rusts, smut, septoria etc</i>

Bibliography

1. Agrios George, 2005 – *Plant pathology*, Ed. Elsevier Academic Press
2. Hatman M. și colab.: *Protecția plantelor*. Ed. CERES, București, 1986.
1. Henegar Monica, Andru Monica, *Codexul produselor de protecție a plantelor omologate pentru utilizare în România*, Ed. Andagra, Arad, 2013
2. Iacob Viorica, 2003 – *Fitopatologie*, Ed. Ion Ionescu da la Brad Iași.
3. Iacob Viorica, Hatman M., Ulea, E., Puiu I., 1999 – *Fitopatologie generală*, Ed. Căntes, Iași.

4. Iacob Viorica: *Bolile plantelor cultivate-prevenire și combatere*, Ed. "Ion Ionescu de la Brad", Iași, 2008
5. Rădulescu E., Rafail C.: *Tratat de fitopatologie agricolă*, vol. II, Ed. Academiei Republicii Socialiste România, România, București 1970.
6. Ulea, E., 2003 – *Fitopatologie horticolă*, Ed. Ion Ionescu de la Brad Iași.

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:

Lecturer PhD Andreea-Mihaela FLOREA

Faculty of Agriculture - USAMV Iași
 Al. Mihail Sadoveanu, no. 3, Iași, 700490, Romania
 Tel.: 0040 232 407426, Fax: 0040 232 219175
 E-mail: amflorea@uaiasi.ro