**PLANT PROTECTION (IInd Year of study, VIth SEMESTER)**

**Credit value (ECTS) 5**

**Course category: Domain (Compulsory courses)**

 **Discipline Code:** **A.EMIAIA.D.305**

**Course holder:**

**PhD, Lecturer Andreea-Mihaela FLOREA**

**Discipline objectives (course and practicum)**

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 with the technical work in the laboratories of plant protection, and with the recognition of disease.

**Contents (syllabus)**

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| **Course (chapters/subchapters)** |
| General notions about plant diseases |
| Introduction to plant diseases. Characteristics of pathogens. |
| Factors that influence parasitic properties (internal and external). Mode of nutrition and spread of the pathogens. |
| Clasification and specific characters of pathogen agents. Viruses. Mycoplasmas. Bacteria.  |
| Fungi (morphology, asexual and sexual propagation, class characterization of fungi). |
| General technologies for prevention and integrated control. |
| Cereal diseases - I |
| Cereal diseases - II |
| Beans and peas disease. |
| Non-food crops diseases. |
| Vegetables diseases. |
| Fruit trees and shrubs diseases – I. |
| Fruit trees and shrubs diseases - II. |
| Grapevine diseases- I |
| Grapevine diseases – II. |
| **Practicum** |
| Parasitic aspects produces by pathogen agents |
| Cereal diseases |
| Non-food crops diseases |
| Beans and peas disease.  |
| Vegetables diseases  |
| Fruit trees diseases  |
| Grapevine diseases  |

**References:**

1. Florea Andreea-Mihaela, Ulea E., 2019– Indrumător practic de fitopatologie, Ed. Ion Ionescu da la Brad Iaşi.
2. Iacob Viorica, 2008. Bolile plantelor cultivate-prevenire şi combatere, Ed. ”Ion Ionescu de la Brad”, Iaşi.
3. Şandru I.D., 1996. Protejarea culturilor agricole cu ajutorul pesticidelor, Ed. Helicon, Timişoara.
4. Ulea E., 2003. Protecţia plantelor - Fitopatologie. Ed. Ion Ionescu de la Brad, Iaşi.

**Evaluation**

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| **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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