

Integrated pest and disease control (2nd YEAR, 1st SEMESTER)

Credit value (ECTS): 7

Course category

Compulsory courses

Course holder:

PhD, Prof. Eugen ULEA

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.

Understanding of the disease distribution in ecosystems from our country.

Ability to identify the real disease causes and to control them, considering protection of ecosystems.

Contents (syllabus)

Course (chapters/subchapters)
Principles and methods of integrated ecosystem protection. The ecological basis of integrated struggle. Principles and methods of integrated protection. Integration of control methods.
Prognosis and warning in plant protection. Evidence of pathogens and crop plant pests. Elaboration of forecasts in plant protection.
Preventing and control technology for pathogens and pests in cereal crops.
Preventing and control technology for pathogens and pests in maize crops.
Preventing and control technology for pathogens and pests in pea and bean crops.
Preventing and control technology for pathogens and pests in potato crops
Preventing and control technology for pathogens and pests in sugar beet crops
Preventing and control technology for pathogens and pests in sun flower crops
Preventing and control technology for pathogens and pests in rape crops
Preventing and control technology for pathogens and pests fodder plant crops
Preventing and control technology for pathogens and pests in mustard and saffron crops.

Practical works
Seed health determination
Density evidence of pests and determination of the degree of damage.
Pathogens determination of the degree of attack .
Simulation warning of treatment for <i>Phytophthora infestans</i> using the AGROEXPERT program
Pesticides and dosage choosing.
Development of integrated control technology to cereal crops.
Development of integrated control technology to maize crops.
Development of integrated control technology to pea and bean crops

Development of integrated control technology to potato crops
Development of integrated control technology to sun flower crops
Development of integrated control technology to rape, mustard and saffron crops.
Development of integrated control technology to fodder plant crops.

Bibliography

1. Baicu, T. și colab., 1986 - Sisteme de combatere integrată a bolilor și dăunătorilor pe culturi, Ed. CERES, București.
2. Cepoiu, N. și colab., 1983 – Genetica și ameliorarea rezistenței la boli a plantelor. Ed. Acad. RSR, București.
3. Hatman, M. și colab., 1986 - Protecția plantelor, Ed. CERES, București.
4. Minoiu, N., Lefter, Gh., 1987 - Bolile și dăunătorii speciilor samburoase. Ed. CERES, București.
5. Mirică I., Mirică Afrodita, 1986 – Combaterea bolilor și dăunătorilor la vița de vie, Ed. CERES, București
6. Lefter, Gh., Minoiu, N., 1990 - Combaterea bolilor și dăunătorilor speciilor pomicele semințoase. Ed. CERES, București.
7. Marinescu, Gh. și colab., 1988 - Bolile plantelor floricole. Editura CERES, București,
8. Raicu, Cristina, 1984 - Tehnologia combaterii bolilor și dăunătorilor la legume. Ed. CERES, București.
9. Rădulescu E. și colab., 1967 - 1972 - Tratat de Fitopatologie agricolă, Vol. I, II, III, IV, Ed. Academiei Republicii Socialiste România, București.
10. Șandru, I., 1996 - Protejarea culturilor agricole cu ajutorul pesticidelor, Timișoara.
11. Talmaciu M., 2005 – Entomologie agricolă, Ed. Ed. Ion Ionescu de la Brad, Iași.
12. Ulea E., 2003 – Fitopatologie, Ed. Ion Ionescu de la Brad, Iași.
13. Ulea E., 2001 – Protecția plantelor, Ed. Ion Ionescu de la Brad, Iași.

Evaluation

Evaluation form	Points no.	Percentage of the final grade %
Presence at the course	1	10
Appreciation of the activity during the semester	3	30
Exam	6	60
Final note	10	100

Contact

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