

Crop science (IVth Year of study, VIIth SEMESTER)

Credit value (ECTS) 5

Course category

Domain (Compulsory course)

Course holder:

Prof. PhD. Teodor ROBU

Discipline objectives (course and practical works)

The aim of the course is to have students acquire knowledge on crop rotation, fertilizers used in agriculture, weeds, diseases and pests of field crops. Students will also follow acquiring knowledge necessary for the establishment of field crops.

Practical works seek to have students acquire knowledge on biological peculiarities field plants (anatomy, morphology) of their systematic classification (family, genus, species) requirements for vegetation factors (temperature, humidity, food, soil, light), their ecological zoning.

Contents (syllabus)

Course (chapters/subchapters)
Cap. 1 Textile plant: importance and spreading, systematic, varieties grown, requirements for vegetation factors, cultivation technology (rotation, tillage, fertilization, care work and harvest.
1.1 Flax fiber;
1.2 Hemp fiber;
1.3 Flax processing and hemp;
1.4 Cotton;
2.5 Other textile crops (teis, jute, <i>Hibiscus trionum</i>).
Cap. 2 Plants producing tubers and roots: importance and spreading, systematic, varieties grown, requirements for vegetation factors, cultivation technology (rotation, tillage, fertilization, care work, planting and planting material and sowing seeds beet and chicory), and harvest.
2.1 Potato;
2.2 Sugar beet;
2.3 Chicory;
Cap. 3 Tobacco: importance and spreading, systematic, varieties grown, requirements for vegetation factors, cultivation technology (rotation, tillage, fertilization, care work and harvest, drying and fermentation.
3.1 Poppy
3.2 False saffron
3.3 Other oil plant -sesame (<i>Sesamum</i> sp. L.), false flax (<i>Camelina</i> sp. L.), perilla

Practical works
1. Flax fiber;
2. Hemp fiber;
3. Other textile plants;
4. Potato: morphological features, anatomic and systematic; Storage methods.
5. Beet sugar: morphological features, anatomic and processing. Chicory. Beet processing.
6. Practical applications farm Ezareni to assess beet and potatoes:
7. Tobacco: morphological features, anatomic and processing;
8. Hops: morphological features, anatomic and processing;
9. Development fertilization system for the main species;
Final colloquium of knowledge evaluation.

Bibliography

1. Axinte M., Roman Gh.V., Borcean I., Muntean L.S., 2006 – *Fitotehnie*, Ed. Ion Ionescu de la Brad, Iași.
2. Mogârzan Aglaia și colab., 2012 – *Fitotehnie*, Ed. Ion Ionescu de la Brad, Iaș
3. Muntean L.,1995 – *Mic tratat de Fitotehnie, vol. I – Cereale și leguminoase pentru boabe*, Ed.Ceres
4. Mureșan T. și colab., 1975 – *Cultura porumbului*, Editura Ceres.
5. Olaru C.,1982 – *Fasolea*, Ed.Scrisul Românesc, Craiova.
6. Roman Gh., V. Și colab., 2011 și 2012 – *Fitotehnie*, Vol. I,II, Editura univ., Buc.
7. Salontai Al., și colab., 1988 – *Certificarea și controlul calității semințelor și materialului săditor la culturile de câmp*. Ed.Dacia, Cluj-Napoca.
8. Stănescu Z, Rizescu Gh., 1976 – *Sfecla pentru zahăr*, Editura Ceres, Buc.
9. Vrînceanu Viorel, 2000 – *Floarea-soarelui hibridă*, Editura Academiei.
10. Zaharia Marius și colab., 2011 – *Fitotehnie*, Lucrări de laborator, Ed. Ion Ionescu de la Brad, Iași.
11. Zamfirescu N., 1977 – *Bazele biologice ale producției vegetale*, Ed.Ceres.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Exam	Written examination	60%
Appreciation of the activity during the semester	Oral assessment during the semester, verification tests and final laboratory colloquium.	40%

Contact

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