Grasslands and fodder plants (IVth Year, VIIth Semester)

Credit value (ECTS): 5

Course category:
Speciality Discipline (obligatory)

Course holder:
PhD Professor Vasile Vîntu

Discipline objectives (course and practical works):

General objective: acquiring knowledge, skills training and expertise on cultivation and conservation of forage plants.
Specific objectives:

- assimilation of knowledge necessary to develop differentiated technologies for cultivation of annual and perennial forage plants, with different destinations, in terms of efficiency and high quality, according to the Common Agricultural Policy and Romanian strategy;
- practical skills for green feed production organization enabling them a proper management of land for sustainably fodder resources;
- acquire a knowledge needed to forages silage preservation and appreciation of their quality.

Contents (syllabus)

Course:
ANNUAL GRAMINEOUS FODDER SPECIES Fodder corn; Barley, oats, rye, triticosecale; Sudan grass; Fodder sorghum Ryegrass; Millet, foxtail millet and italian millet
PERENNIAL GRAMINEOUS FODDER SPECIES Specific cultivation technologies Seed production
ANNUAL LEGUMINOUS FODDER SPECIES Fodder pea; Vetches; Broad bean; Chickling pea and lupine; Persian clover and crimson clover
PERENNIAL LEGUMINOUS FODDER SPECIES Alfalfa; red clover Sainfoin; Bird's-foot trefoil; Yellow and white sweet clover
ROOTS AND TUBERS FODDER SPECIES Fodder beet; Fodder turnip Fodder carrot; Jerusalem artichokes
CUCURBITS AND OTHER FODDER PLANTS SPECIES Cucurbits Other fodder succulents plants species Melliferous plant
GREEN FEED PRODUCTION SYSTEM Definition, types, principles of organization Green feed production - technical organization
FORAGES ENSILAGE The importance of silage; Biochemical processes during ensiling Silage technologies; Types of silos Pickled fodder quality assessment

Practical works:
Morphological and biological characteristics of roots, tubers, cucurbits and other fodder succulents plants species;
Storage, preservation and evaluation of forages;
Evaluation of Autumn forage crops;
Perennial grasses and legumes seeds mixtures preparing for temporary meadows establishment - project activities;
Rational grazing organization - project activities;
Green feed production organization - project activities;
Forages quality assessment;
Colloquy - recognition of major fodder plant species and their seeds or fruits and project presentation*.

Bibliography:

1. Moga I. şi colab., 1996 - *Plante furajere*. Editura Ceres, Bucureşti.
2. Moga I., 1993 - *Cultura leguminoaselor perene*. Editura Ceres, Bucureşti
3. Samuil Costel, **Vîntu Vasile**, Stavarache Mihai, 2019 - P*roducerea și conservarea furajelor*. Editura „Ion Ionescu de la Brad" Iaşi.
4. Varga P., 1993 - *Producerea furajelor* - ghid practic. Editura Ceres, Bucureşti
5. Vintilă M., 1989 - *Tehnologii actuale de însilozare a nutreţurilor*. Editura Ceres, Bucureşti.
6. **Vîntu Vasile** (coord.), Moisuc Al., Motcă Gh,., Rotar I., 2004 - *Cultura pajiştilor şi a plantelor furajere.* Ed. "Ion Ionescu de la Brad" Iaşi.
7. **Vîntu V**., Samuil C., Stavarache M., 2017 - *Cultura pajiștilor și a plantelor furajere* - îndrumător de lucrări practice, Editura „Ion Ionescu de la Brad"
*** - Colecţia de reviste "Fourrages"
*** - Colecţia de reviste "Grassland science in Europe

Final evaluation:

Evaluation forms	Evaluation methods	Percentage of the final grade
Exam	Oral Exam	60%
Appreciation of the activity during the semester	Verification tests, laboratory colloquium, project presentation*	40%

*****- project presentation and admission represent a prerequisite for the participation of the final evaluation

Contacts

Prof. PhD. Vasile VÎNTU
Faculty of Agriculture - USAMV Iaşi
Aleea Mihail Sadoveanu nr. 3, Iaşi, 700490, Romania
Phone number: 0040 232 407459
E-mail: vvintu@uaiasi.ro

Assistant Prof. PhD. Mihai STAVARACHE
Faculty of Agriculture - USAMV Iaşi
Aleea Mihail Sadoveanu nr. 3, Iaşi, 700490, Romania
Phone number: 0040 232 407502; 0040 748 915113
E-mail: mihaistavarache@uaiasi.ro