

Animal nutrition (4th Year of study, 2nd Semester)

Credit value (ECTS) 4

Course category

Domain (Imposed)

Course holder:

Prof. dr. Teona AVARVAREI

Discipline objectives (course and practical works)

The aim of the course is to have students acquire knowledge on crops botanical organs, introduction the subject of the soil as an object of study, including a broad overview of its history, concept of humus, soil horizon nomenclature and the main soil types. Presentation of vegetation factors and how to control them; explaining the most appropriate methods of tillage for a rational soil management; identification of some common types of weeds and explaining the negative role of them on crops and on final products quality; explaining the way how to use the chemicals in agriculture to increase the crop and soil productivity potential and to avoid pollution; explaining the fundamental principles essential to understanding field crop production.

Practical training for the students is organized in: practical stages laboratory, applying method for soil physical determination, studding the collections of dried plants and seeds, visits in Seed Crop Control Institute. The objective is to provide for the students the knowledge and practical abilities, to be able to determine optimum cropping system, select the most appropriate fertilization system and weed control for main crops.

Contents (syllabus)

Course (chapters/subchapters)
Botany – plant organs
Pedology - Soil as habitat for plant growth and development
Agrotechnics (Soil management) Vegetation and climatic factors that promote or limit plant growth and development/Soil tillage/Cultivation tillage/Chemical fertilizers and amendments/Weeds and their control
Field crop production: Cereals , <i>Poaceae</i> family (or <i>Gramineae</i>)/ Legume (pea, or bean family), <i>Fabaceae</i> family (or <i>Leguminosae</i>)/ Oilseed crops/Root crops

Practical works
Plant organs
Soil profile
Soil physical properties (Bulk density/Penetration resistance/Soil humidity)
Biological particularities of weeds/Weeds classification
Seed quality control
Morphological characteristics of cereals/legume
Morphological characteristics of root/oilseed crops

Bibliography

1. Avarvarei, Teona, 1999 - Agricultură generală, vol. I, Editura Ion Ionescu de la Brad, Iași.
2. Avarvarei Teona, 2002 – Agricultură generală, vol II, Editura Ion Ionescu de la Brad, Iași.
3. Avarvarei Teona, 2006 – Agricultură generală - lucrări practice, Editura Ion Ionescu de la Brad, Iasi.
4. Teodorescu-Soare E., 2006 - Pedologie.
5. Onisie T., Jitareanu G., 1999 – Agrotehnica, Editura Ion Ionescu de la Brad, Iasi.
6. Axinte M., 2004 – Fitotehnie, Editura Ion Ionescu de la Brad, Iasi.
7. John H. Martin, Richard P. Waldren, David L. Stamp, 2006 – Principles of Field Crop Production.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Exam	Oral examination	65%
Appreciation of the activity during the semester	Oral assessment during the semester, verification tests and final laboratory colloquium.	35%

Contact

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