

CROP SCIENCE

(IIIrd Year of study, 6 semester)

Credit value (ECTS): 4

Course category:
Domain (Imposed)

Course holder: Phd, Prof Costel SAMUIL

Discipline objectives (course and practical works):

Acquiring and understanding the theoretical basis specific to Phytotechnics, the skills of applying theoretical knowledge in practice, as well as the formation of the ability to act autonomously to observe, analyze, interpret and provide solutions to concrete problems in production.

Contents (syllabus)

Course (chapters/subchapters)
INTRODUCTORY NOTIONS
CEREALS. Importance, spread, biological features Wheat, rye, triticale, barley, oats, corn, sorghum
LEGUME. Importance, spread, general characters Peas, beans, soy
FAT PRODUCING PLANTS Sunflower
PLANTS PRODUCING TUBERS AND ROOTS Potato, sugar beet
TOBACCO
HOPS

Practical works
Soil sampling for physico-chemical analysis, pH determination, soil moisture
Determining the content of s.u. and crude plant protein
Seed quality control: germination, purity, MMB, MH
Morphological and biological characteristics of cereals: Wheat identification
Morphological and biological features: rye, barley
Morphological and biological features: corn, sorghum
Morphological and biological features: legumes for grain
Morphological and biological features: peas, beans, soy

Morphological and biological features of fat-producing plants: sunflower
Morphological and biological features of plants producing tubers and roots: potato, sugar beet
Morphological and biological features: tobacco, hops

Bibliography

Axinte M., Roman Gh.V., Borcean I., Muntean L. S., 2006 – Fitotehnie, Ed. “Ion Ionescu de la Brad”, Iași.

Bîlteanu Gh.,1998 – Fitotehnie, vol.I, Ed. Ceres, București.

Bîlteanu Gh., și colab., 1991 – Fitotehnie, vol. II, Ed. Didactică și Pedagogică, București.

Samuil C., 2010, Tehnologii generale vegetale, Editura Ion Ionescu de la Brad Iasi, ISBN 978-973-147-065-8.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Courses	Exam	60%
Practical works	reports	40%

Contact

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