

VEGETABLE GROWING (LANDSCAPING, IIIrd Year of study, VIth. Semester)

Credit value (ECTS): 3

Course category

Domain discipline (**mandatory**)

Course holder:

Associate Professor Dr. Stan Teodor

Discipline objectives (course and practical works)

Theoretical and practical training of students with elements of general and special cultivation of vegetable plants, ensuring completion of professional knowledge, enabling better use of land and buildings for the production of vegetables in order to achieve higher production in terms of quantity and quality, unpolluted as possible, which ultimately lead to achieving superior returns for growers.

At practical aims:

- Consolidation of elements, rules and details of construction and materials production plant vegetable seedlings;
- correct wording of a technology of cultivation of a vegetable species in correlation with social and economic pedoclimatic factors existing in a certain area of vegetable;
- encouragement to prevent and fight certain risk factors that may occur at some point in a vegetable crop in order to obtain high yields both quantitatively and qualitatively;
- encouragement to charge the "new" by applying modern, fully mechanized to be as profitable in economic terms.

Contents

Course (chapters/subchapters)
1. Importance, development and objectives vegetable
1.1. Course objectives and content of vegetable
1.2. Vegetable growing importance and place in agricultural production.
2. The ornamental importance of vegetable plants.
2.1 The concept of edible landscaping. Brief history and perspectives
2.2. Ornamental vegetable garden
2.2.1. Decorative vegetable species through port architecture
2.2.2. Decorative vegetable species through flowers and inflorescences.
2.2.3. Climbing vegetable species
2.2.4. Vegetable species recommended for making edges
2.2.5. Carpet vegetable species
2.2.6. Decorative vegetable species through leaves (shape, surface appearance, color)
2.2.7. Vegetable species that achieve color effects
2. The biological bases of cultivation of vegetable plants
2.1. The origin and evolution of vegetable plants
2.2. Particularities of growth and development of vegetable plants
2. 3. Classification vegetable plants
3. Propagated vegetables
3.1. By vegetative propagation (asexual)
3.2. Multiplying about generative (sexual)
3.3. Preparation of seeds for sowing
4. Ecology of vegetable plants
4.1. Relations with light vegetable plants

- 4.2. Relations with the heat vegetable plants
- 4.3. Air as a factor in vegetable growing season
- 4.4. Vegetable plants to water requirements
- 4.5. Soil and nutrition
- 5. Process systems culture of vegetable plants
- 6. Basics of technologies
 - 6.1. Rational use and land-intensive crop and soil gardening
 - 6.2. Irrigation, fertilization and weed control in vegetable crops

- General technology production of vegetable seedlings
- 6.3. Preparing construction, machinery and equipment, land and inventory for seedling production
 - 6.4. The technology of producing seedlings in greenhouses multiplier
 - 6.5. The technology of producing seedlings in greenhouses and greenhouses with solar-heated substrate biologically
 - 6.6. The technology of producing seedlings in greenhouses and unheated greenhouses, solar
 - 6.7. The technology of producing seedlings in seedbeds heated biological
 - 6.8. The technology of producing seedlings in field
 - 7. General technology of cultivation of vegetable plants in the field unprotected
 - 7.1. Land and soil preparation
 - 7.2. Establishment of field vegetable crops
 - 7.3. Maintenance work applied to vegetable crops in the field
 - 8. General technology culture of vegetable plants in shelters covered with plastic and mass-solar greenhouses
 - 8.1. Construction and soil preparation
 - 8.2. Establishment of vegetables in greenhouses
 - 8.3. Leading environmental factors during cultivation in greenhouses
 - 8.4. Maintenance of vegetable crops in greenhouses
 - 9. Harvesting, conditioning, transport, preservation and development of vegetable products
 - 9.1. Vegetables harvesting
 - 9.2. Conditioning vegetable products
 - 9.3. Vegetables transport

Practical works

Knowing assortment of vegetable plants grown in our country and around the globe
 Knowledge of vegetable seed;
 Special methods for determining and analyzing the characteristics useful for production
 Quality control of vegetable plant seed
 Preparing seed vegetable plant to seeding
 Establishing the necessary materials and seedlings for vegetable farm
 Vegetable seedling production plant crops in open field, forced and protected
 Preparing the land and building for the establishment of vegetable crops
 Establishment of vegetables in greenhouses, greenhouses and open field
 Works for general care applied to vegetable crops in the field, greenhouses and solariums
 Harvesting vegetables and recovery
 Colloquium final knowledge tests.

Bibliography

1. CIOFU RUXANDRA, STAN N. et al. - Treaty gardening, Ceres Publishing House, Bucharest, 2003
2. N. STAN, STAN T. - Vegetable, general -Publishing "Ion Ionescu de la Brad" Iași, 2010
3. STAN T. - Vegetable growing technology. Publisher ALFA Iasi, 2005
4. N. STAN, STAN T. - Vegetable, vol Publishing "Ion Ionescu de la Brad" Iași, 1999
5. STAN N., N. MUNTEANU - Vegetable, volume II, Ed "Ion Ionescu de la Brad" Iași, 2001
6. STAN N., N. Munteanu, STAN T. - Vegetable, vol III, Publisher "Ion Ionescu de la Brad" Iași, 2003.
7. DUMITRESCU M. et al. - Production of vegetables. Artprint, Bucharest, 1998
8. BUTNARIU H. et al. - Vegetable. Edit.Didactică and Pedagogic, Bucharest, 1993
9. A. MARINESCU - Technologies and machines for mechanization in the growing field vegetables. Ceres Publishing House, Bucharest, 1989.
10. V. Popescu - Vegetable. Ceres Publishing House, Bucharest, 1996.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Exam	Oral examination	70%
Practical works - appreciation of the activity during the semester	Oral assessment during the semester, verification tests and final laboratory colloquium.	30%

Contact

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