

FLORICULTURE

(Specialization *Horticulture*, 3rd Year of study, 1st Semester)

Credit value (ECTS): 5

Course category: mandatory

Course holder: Prof. Lucia DRAGHIA Ph.D

Discipline objectives (course and practical works)

- acquiring the notions for the classification and morphological description of floricultural plants;
- knowledge of the ecological requirements of floricultural plants;
- the ability to choose the best method to ensure the quality of propagating material in the floriculture sector;
- acquiring the principles and notions about growing techniques for established and maintenance of floriculture crops;
- knowledge of the way of harvesting, storing and valorization of the floral products.

Contents (syllabus)

Course (chapters/subchapters)
1. Classification of floricultural plants.
1.1. Botanical systems.
1.2. Place of origin.
1.3. Life cycle.
1.4. Place of growing.
1.5. Morphological and ornamental characteristics.
1.6. Use and purposes design.
2. Relationship with environmental factors.
2.1. Light.
2.2. Water.
2.3. Temperature.
2.4. Air.
2.5. Soil, substratum, nutrients.
3. Specially constructions for growing floricultural plants.
3.1. Greenhouses.
3.2. Crop tunnels.
3.3. Hotbeds.
4. Propagation of floricultural plants.
4.1. Seed propagation.
4.2. Vegetative propagation.
5. Establishment and maintenance of floricultural crops (in open fields, under protected conditions).
5.1. Establishment.
5.2. Maintenance.
6. Harvesting, postharvest management and valorization of floricultural products.

Practical works
1. Presentation of the didactic collection (plants grown outdoors and indoor). Constructions and materials used in floriculture technology.
2. Preparation of plants for wintering (hemicryptophytes and geophytes).
3. Establishment of plants grown under protected conditions.
4. Morphology and biology of floricultural plants.

5. Morphological and biological particularities of seeds, fruits, bulbs, corms, tubers, rhizomes.
6. Seed propagation technology.
7. Vegetative propagation technology.

Bibliography

1. **Bla Maria, 2012** – *Floricultur general i special* . Editura Partos, Timi oara.
2. **Buta Erzsebet, Cantor Maria, 2009** – *Floricultur . Îndrum tor de lucr ri practice*. Ed. Todesco, Cluj Napoca
3. **Cantor Maria, Pop Ioana, 2008** – *Floricultur* . Baza de date. Editura Todesco, Cluj Napoca.
4. **Draghia Lucia, 2011** – *Floricultur* . Editura Ion Ionescu de la Brad, Ia i.
5. **Draghia Lucia, Chelariu Elena-Liliana, 2001** – *Floricultur . Îndrum tor de lucr ri practice*. Ed. Ion Ionescu de la Brad, Ia i.
6. **Draghia Lucia, Chelariu Elena-Liliana, 2011** – *Floricultur* . Editura Ion Ionescu de la Brad, Ia i.
7. **Spencer I., 2001** – *Gardening through the year*. Royal Horticultural Society, DK Publishing, London.
8. **elaru Elena, 2008** – *Cultura florilor de gr din* . Editura Ceres, Bucure ti.
9. **elaru Elena, 2002** – *Culturi pentru florilor t iate*. Editura Ceres, Bucure ti.
10. **Toma Fl., 2009** – *Floricultur i Art floral* , vol. I-IV. Ed. INVEL – Multimedia, Bucure ti

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Exam	70
	presence	
Practical works	Tests + cours and practical	30

Contact

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FLORICULTURE

(Specialization *Horticulture*, 3rd Year of study, 2nd Semester)

Credit value (ECTS): 4

Course category: mandatory

Course holder: Prof. Lucia DRAGHIA Ph.D

Discipline objectives (course and practical works)

- ability to recognize the main floricultural plants grown in open fields and under protected conditions;
- knowledge of biology, ecology and technology of the main floricultural plants;
- ability to choose the optimal economic and aesthetic variants for valorification of floricultural products.

Contents (syllabus)

Course (chapters/subchapters)
1. Biology, ecology, technology and use of the main floricultural plants grown in open field.
1.1. Annuals.
1.2. Biennials.
1.3. Perennials.
2. Biology, ecology and technology of the main floricultural plants grown in greenhouse (cut flowers).
3. Biology, ecology, technology and use of the main floricultural plants grown under protected conditions (potted plants).

Practical works
1. Characterization of main annuals floricultural plants.
2. Characterization of main biennials floricultural plants.
3. Characterization of main perennials floricultural plants.
4. Characterization of main greenhouse floricultural plants (cut flowers).
5. Characterization of main potted plants.
6. Soil preparation and establishment of floricultural plants grown in open field.
7. Maintenance of floricultural crops (outdoor and indoor).
8. Valorisation of floricultural plants.

Bibliography

1. B la Maria, 2012 – *Floricultur general i special* . Editura Partos, Timi oara.
2. Brickell C., Cathey M.C. (editors), 2004 – *A-Z Encyclopedia of garden plants*. The American Horticultural Society, DK Publishing, New York.
3. Cantor Maria, Pop Ioana, 2008 – *Floricultur . Baza de date*. Editura Toderco, Cluj Napoca.
4. Cantor Maria, Erzsebet Buta, 2010 – *Art floral* . Editura Toderco, Cluj Napoca
5. Chelariu Elena-Liliana, 2015 – *Floricultur – plante de apartament*. Editura Ion Ionescu de la Brad, Ia i.
6. Draghia Lucia, 2005 – *Floricultur* . Editura Ion Ionescu de la Brad, Ia i.
7. Draghia Lucia, 2011 – *Floricultur* . Editura Ion Ionescu de la Brad, Ia i.
8. Draghia Lucia, Chelariu Elena-Liliana, 2011 – *Floricultur* . Editura Ion Ionescu de la Brad, Ia i.
9. Rausch Andrea, Timmermann Annette, 2004 – *500 essential container plants*. Rebo International Publishing, Netherlands.
10. elaru Elena, 2008 – *Cultura florilor de gr din* . Editura Ceres, Bucure ti.
11. elaru Elena, 2002 – *Culturi pentru florilor t iate*. Editura Ceres, Bucure ti.
12. elaru Elena, 2004 – *Plante de apartament*. Editura Ceres, Bucure ti
13. Toma Fl., 2009 – *Floricultur i Art floral* , vol. I-IV. Ed. INVEL – Multimedia, Bucure ti.

Evaluation

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Course	Exam	70
	presence	
Practical works	Tests + cours and practical	30

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