VITICULTURE II (Specialization Horticulture 3rd / Year of study, 2nd Semester)

Credits (ECTS): 4

Course category: Domain-specific discipline /(mandatory)

Course holder: Assoc. Prof. Mihai MUSTEA PhD

Objectives of the discipline:

Knowledge of the technology of establishment and maintenance of fruitful vineyards; production of viticultural planting material

Contents (syllabus)

Course (chapters/subchapters)
1. Production of viticultural planting material
Biology of grapevine propagation. The vineyard nursery
Production of rootstock cuttings
Production of graft cords
Production technology of grafted vines
Production of certified planting material
2. The establishment of fruitful vineyard plantations.
Types of vineyard plantations
The choice of land
Organization of the land intended for planting vines
Land preparation for planting
The choice of fruiting vine varieties and rootstocks
Vine culture systems
Establishing the planting distances of the driving forms and cutting types
Planting vines
3. Maintenance of young plantations of fruitful vines
Maintenance work in the first year after planting
Maintenance work in the second year after planting
Maintenance work in the third year after planting
Vine formation cutting
4. Maintenance of fruitful vine plantations
Cutting the vine
Driving the wooden elements resulting from cutting, on the means of support
Soil maintenance systems in fruit vine plantations
Herbicide of wine plantations
Green works and operations
Fertilization of vineyards
Irrigation of vineyards
Filling in the blanks
Combating diseases and pests in vineyards
Harvesting grapes

Practical activity		
1. Control of	of bud viability	
2. Preparati	ion of grafting material. Grafting the vine	
3. Layering	g and forcing the grafted cuttings	
4. Planting	the grafted and forced cuttings in the school of vines	
5. Cutting t	the rootstock vines	
6. Planting	vines	
7. Training	cuts on the vine	
8. Fruiting	cuttings of the vine	
9. Manager	ment of the vine on the means of support	
10. The agr	rotechnical works, herbicides, fertilization and irrigation applied in vineyards	
11. The wo	orks and operations in the green of the fruitful vines. Determination of the fertility of	
the vine.		
12. Works a	and operations in the green of rootstock vines	

Bibliography

1. Dejeu L., 2010 Viticulture, Ceres Publishing House, Bucharest.

2. Dobrei A., Mălăescu Mihaela, Ghiță Alina, 2011 – Viticulture, biological and technological bases. Solness Publishing House, Timoșoara

3. Dobrei A., Rotaru Liliana, Dobrei Alina, 2017 – Viticulture, Ampelography, Oenology. Solness Publishing House, Timişoara.

4 Mustea M., 2004 – Viticulture, biological bases, establishment and maintenance of young plantations of fruitful vines. "Ion Ionescu de la Brad" publishing house, Iasi.

5. Mustea M., 2022 – Viticulture. Vine culture technology. "Ion Ionescu de la Brad" publishing house, Iasi.

6. Mustea M., Alexandru L. C., 2024 - Production of viticultural planting material. "Ion Ionescu de la Brad" publishing house, Iasi.

7. Pop Nastasia, 2010 – General viticulture, Eikon Publishing House, Cluj-Napoca.

8. Popescu V., Chira L., Dejeu L., 2001 – Production of planting material for vegetables, trees and vines.

9 Suditu P. et al., 2002 – Mechanization of works in viticulture. Pim publishing house.

10. Ungureanu S., Cebanu V., 2019 – Technology of production of viticultural planting material. AŞM printing house. Chisinau.

xxx - Horticulture magazine.

xxx - Scientific works of U.A.M.V. Iasi, Horticulture series.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Final exam	Oral examination	60
Evaluation of the activity during the semester	Written and oral assessments during the semester	40

Contact

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