

# **PRODUCTION OF VITICULTURAL PLANTING MATERIAL I**

**(Horticultural Seed and Planting Material Production, 1<sup>st</sup> Year of study, 1<sup>st</sup> Semester)**

**Credit value (ECTS): 6**

**Course category: Further study (mandatory)**

**Course holder: Assoc. Prof. Mihai MUSTEA PhD**

### **Objectives of the discipline (course and practical activity)**

Knowledge of production technologies for viticultural planting material

Knowledge of vine propagation methods

Knowledge of the production of grafted vines in the vine school

### **Contents (syllabus)**

<b>Course (chapters/subchapters)</b>
1 Introduction. The importance and role of the production of viticultural planting material. The history of the production of viticultural planting material. Biological categories of viticultural planting material. Methods of vine propagation.
2 Production of viticultural planting material. Organization of the vineyard nursery. Rootstock cuttings production technology. Cultivars and rootstock clones. Technologies for establishment and maintenance of rootstock plantations. Application of phytosanitary selection in rootstock plantations. Certification of rootstock plantations. The technology of producing grafted strings. Technologies for the establishment and maintenance of plantations supplying grafted cords. The application of phytosanitary selection in plantations supplying grafting cords. Certification of plantations supplying grafting cords. Production of grafted and forced cuttings. The theoretical basis of the production of grafted vines. Methods of grafting, stratification and forcing of grafted cuttings. The culture of grafted vines in the school of vines. Cultivation systems practiced in the vine school. Specific vine maintenance technologies in the vine school.

<b>Practical activity</b>
1. Support systems used in rootstock plantations
2. Harvesting the rootstock cords, shaping and preserving them
3. Harvesting the graft cords, shaping and preserving them
4. Cutting of rootstock vines
5. Marking impurities in the school of vines
6. Harvesting the grafted vines from the school of vines
7. Preservation of viticultural planting material

## Bibliography

1. Dobrei A., Rotaru Liliana, Dobrei Alina, 2017 – Viticulture, Ampelography, Oenology. Solness Publishing House. Timisoara.
2. Mustea M., 2022 – Viticulture. Practical works, "Ion Ionescu de la Brad" Publishing House, Iasi.
3. Mustea M., Alexandru L.C., 2024 – Production of viticultural planting material. "Ion Ionescu de la Brad" publishing house, Iasi.
4. Popescu V, Chira L., Dejeu L., 2001-Production of planting material for vegetables, trees and vines, M. A. S. publishing house.
5. Pop Nastasia, 2010 – General Viticulture Course. Eikon Institute, Cluj-Napoca.
6. Rădulescu I., Voşoiu Emilia et al., 2014 – Good practice guide for the production of virus-free viticultural planting material in protected spaces. National Research-Development Institute for Biotechnologies in Horticulture Ştefăneşti-Argeş.
7. Ungureanu S., Cebanu V., 2019 – Production technology of viticultural planting material. AŞM printing house. Chisinau.

## Evaluation

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

## Contact

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## PRODUCTION OF VITICULTURAL PLANTING MATERIAL II

(Horticultural Seed and Planting Material Production, 1<sup>st</sup> Year of study, 2<sup>nd</sup> Semester)

**Credits (ECTS): 6**

**Course category:** Further study (mandatory)

**Course holder:** Assoc. Prof. Mihai MUSTEA PhD

### Discipline objectives (course and practical activity)

Knowledge of the technologies for the production of viticultural planting material through vegetative propagation, generative propagation and some technologies for rapid propagation of the vine: "in vitro" multiplication, etc.; the production of certified, devirozed planting material; keeping, transporting and marketing the viticultural planting material.

### Contents (syllabus)

COURSE (chapters/subchapters)

Practical activity

### Bibliography

### Evaluation

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

### Contact

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