

Viticulture (Specialization: Horticulture, the third Year of study, the fifth Semester)

Credit value (ECTS): 5

Course category:

Domain discipline (mandatory)

Course holder:

Assoc. Prof. PhD. Mihai MUSTEA

Discipline objectives (course and practical works): Knowledge and proper use of the notions specific to viticulture; knowledge of the history of grapevine viticulture and the situation of its culture on the globe; knowledge of the morphology and anatomy of the vines, of the biological, ecological and technological peculiarities, for the foundation of the culture technologies.

Contents (syllabus)

Course (chapters/subchapters)
1 Introduction 1.1 Viticulture situation in the world and in Romania 1.2 History and geographical spread of the culture of the vine
2. Viticulture in Romania
3. The origin, evolution and systematic of the vine 3.1 The origin and evolution of the vine 3.2 Training vines grown 3.3 Systematic of Vitis
4. Morphology and Anatomy of vine 4.1 Root morphology and anatomy 4.2 The morphology and anatomy strain 4.3 Buds, leaves, tendrils, blossoms, flower, and seed grapes on vines
5. Ecology of vine 5.1 Climatic factors 5.2 Pedological factors
6. Biology of vines 6.1 Ontogenetic biological cycle 6.2 Annual biological cycle

Practical works
Recognition wood elements of vine
Root morphology and anatomy
The morphology and anatomy strain
Inflorescence and flower morphology
Bud morphology and anatomy
Valuing the output of rootstock cuttings plantations
Marking and evaluation of impurities in the vine nursery
Harvesting vines rooted in the vine nursery, classification and conservation
Rootstocks strings harvesting, shaping and conservation
Strings graft harvesting, shaping and conservation
Filling gaps in vineyards fruitful

Protecting the winter of fruitful vines
Evaluation of grape production
Technological maintenance of drawing sheet vineyards

Bibliography

1. **Dejeu L., 2004** - Practical viticulture, Ceres Publishing House, Bucharest.
 2. **Dejeu L., 2010** - Viticulture, Ceres Publishing House, Bucharest.
 3. **Dobrei A., Mălăescu Mihaela, Ghiță Alina, 2011** - Viticulture, biological and technological bases. Solness Publishing House, Timisoara
 4. **Mustea M., 2004** - Viticulture, biological bases, establishment and maintenance of young fruit trees. "Ion Ionescu de la Brad" publishing house, Iasi.
 5. **Oprea Șt., 2001** - Viticulture. Academicpress Publishing House, Cluj-Napoca.
 6. **Pop Nastasia, 2010** - General viticulture, Eikon Publishing House, Cluj-Napoca.
 7. **Suditu P. et al., 2002** - Mechanization of viticulture work. Pim Publishing House.
 8. **Țârdea C. 1995** - Viticulture. Didactic and Pedagogical Publishing House, Bucharest.
- xxx-Journal of Horticulture
xxx - Scientific works of the U.A.M.V. Iasi, the Horticulture series.
xxx - Agronomic Research in Moldova

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Course	Exam	60 %
	presence	
Practical works	Tests + cours and practical	40 %

Contact

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Viticulture (Specialization: Horticulture, the third Year of study, the sixth Semester)

Credit value (ECTS): 4

Course category:
Domain discipline (mandatory)

Course holder:
Assoc. Prof. PhD. Mihai MUSTEA

Discipline objectives (course and practical works): Knowledge and proper use of the notions specific to viticulture; knowledge of the technology of production of viticulture planting material; knowledge of the technology for setting up live vine plantations; knowledge of the cultivation technology of fruit plantations

Contents (syllabus)

Course (chapters/subchapters)
1 Production planting material 1.1 Nursery wine 1.1 Production rootstock cuttings Production strings graft Producing grafted vines
2. Establishment vineyards fruitful 2.1 Types of vineyards 2.2 Choosing the land for vineyards 2.3 Organizing land for planting vines 2.4 Preparing the soil for planting 2.5 Choosing fruitful vine varieties and rootstocks 2.6 Systems culture of the vine 2.7 Establishing planting distances and types of cutting 2.8 Planting of vines
3 Maintenance of young plantations of vines 3.1 Maintenance in the first year after planting 3.2 Maintenance in the second year after planting 3.3 Maintenance in the third year after planting 3.4 Training cuts the vine
4 Maintenance fruitful vineyards 4.1 Tăierea viței de vie 4.2 Tying vine after cutting 4.3 Soil maintenance systems in vineyards 4.4 Green works and operations on vine 4.5 Fertilization of vineyards 4.6 Irrigation of vineyards 4.7 Filling the gaps 4.8Pest and disease control in vineyards 4.9 Harvesting grapes
Practical works
Viability checking buds
Preparation of material for grafting
Grafting vines
Forcing cuttings grafted

Planting cuttings grafted vines
Cutting vine rootstock
Planting of vines
Training cuts the vine
Cuts bearing fruit on vines
Tillage applied to vineyards
Work and operations on grapevines
Work and operations on rootstocks

Bibliography

1. **Dejeu L., 2010** - Viticulture, Ceres Publishing House, Bucharest.
 2. **Dobrei A., Liliana Rotaru. Dobrei Alina, 2017** - Viticulture, Ampelography, Oenology. "Solness" Publishing House Timișoara.
 3. **Irimia. L., Țârdea C., 2007** - Viticulture. Practical work.
 4. **Mustea M., 2004** - Viticulture, biological bases, establishment and maintenance of young fruit trees. "Ion Ionescu de la Brad" publishing house, Iasi.
 5. **Țârdea C. 1995** - Viticulture. Didactic and Pedagogical Publishing House, Bucharest.
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