Production of vine planting material **(Specialization: Production of horticultural planting material, the first Year of study, the first Semester)**

Credit value (ECTS): 6

Course category:
Domain discipline (mandatory)

Course holder:
Assoc. Prof. PhD. Mihai MUSTEA

Discipline objectives (course and practical works): Knowledge of the technologies of production of the vineyard propagating material: knowledge of the methods of propagating the vines; knowledge of the production technology of rootstock cuttings; knowledge of the technology of producing strings of grapevine; knowledge of the technology of producing grafted ; knowledge of the production of grafted vines in the school of vines, in the solariums, on improved soil, in nutritious pots.
.

Contents (syllabus)

Course (chapters/subchapters)
1. Introduction 1.1 The importance and the role of the production of the vine planting material 1.2 History of the production of the viticulture planting material 1.3 Biological categories of vine planting material 1.4 Methods of propagating vines
2 Production of grafted calves 2.1 Organization of the nursery 2.2 The technology of producing rootstock cuttings 2.3 The technology of producing grapevine strings 2.4 Production of grafted and forged cuttings 2.5 The culture of grafted vines in the school of vines 2.6 Cultivation of grafted vines in solariums on improved soil 2.7Production of grafted veal in nutritional pots

Practical works
Support systems used in rootstock plantations
Harvesting the rootstocks, shaping and keeping them
Harvesting of grapevine strings, shaping and keeping them
Cutting the rootstock vines
Marking of impurities in the vines school
Harvesting grafted vines from the vines school
Preparation of material for grafting

Bibliography

1.Cachiţă C.D., 1987 - In vitro methods in crop plants. Ceres Publishing House, Bucharest.
2. Dejeu L. et al., 2001 - Production of planting material for vegetables and vines. M.A.S.T. Publishing House, Bucharest.
3.Ionatan I., Duma M., 2003- Technology for producing grafted vines and rooted directly in the rootstock plantation, Traian Dorz publishing house.
4.Ianatan I. and Duma M., 2003 - Grafting in green, an important lever in the conversion of plantations wine. Publisher Traiad Dorz- Simeria.

5.Popesscu V, Chira L., Dejeu L., 2001 - Production of planting material for vegetables, trees and vines, M. A. S publishing house
6.Târdea C. and Dejeu L., 1995 - Viticulture. Didactic and Pedagogical Publishing House, Bucharest.
7.Vişoiu Emilia, 2001 - The technology of devirozareos varieties of vine by in vitro cloning. PhD thesis, U.S.A.M.V. Iasi.
7. Vişoiu Emilia et al., 2002 - Viticulture with the basis of producing viticulture planting material with high biological value. Phoenix Publishing House, Brasov, 2002

Evaluation

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

Contact

Assoc. Prof. PhD. Mihai MUSTEA
Faculty of Horticulture - USAMV Iaşi
Aleea Mihail Sadoveanu nr. 3, Iaşi, 700490, Romania
Tel: 0040232407341, fax: 0040 232 219175
E-mail: mmustea@uaiasi.ro

Production of vine planting material **(Specialization: Production of horticultural planting material, the second Year of study, the first Semester)**

Credit value (ECTS): 5

Course category:
Domain discipline (mandatory)

Course holder:
Assoc. Prof. PhD. Mihai MUSTEA

Discipline objectives (course and practical works): Knowledge of the technologies of production of the vine planting material: knowledge of the technologies of production of the vine planting material through vegetative propagation; generative propagation and some technologies for rapid multiplication of vines: multiplication "in vitro" etc; production of certified, devirozareos planting material.

Contents (syllabus)

Course (chapters/subchapters)
1 Production of ungrafted vines 1.1 Making cuttings 1.2 Forcing cuttings 1.3 Cultivation of ungrafting vines in the school of vines
2 Grafting in green 2.1 Harvesting of graftings 2.2 Preparation of the rootstock 2.3 Grafting and maintenance of grafted vines
3. Multiplication by green cuttings 3.1 Making cuttings 3.2 Rooting of cuttings
4.The generative multiplication (by seeds) of the vines 4.1 Seed harvesting and stratification 4.2 Sowing and obtaining seeds 4.3 Culture of seed vines
5. In vitro micropropagation of vines 5.1 The principles of the method 5.2 Necessary facilities. Culture media 5.3 Multiplication by preformed buds 5.4 Multiplication by neoformation of buds
6. Production of certified biological material 6.1 The biological material 6.2 Devirozing by in vitro therapy and culture
7. Control, certification and circulation of vineyard planting material

Practical works
Preparation of material for grafting
Table grafting of vines
Laying and forcing the grafted cuttings
The culture of grafted vines in the school of vines
Multiplication by green cuttings
Producung of ungrafting vines
Grafting in green

Bibliography

1.Cachiță C.D., 1987 - In vitro methods in crop plants. Ceres Publishing House, Bucharest.

2. Dejeu L. et al., 2001 - Production of planting material for vegetables and vines. M.A.S.T. Publishing House, Bucharest.
3.Ionatan I., Duma M., 2003- Technology for producing grafted vines and rooted directly in the rootstock plantation, Traian Dorz publishing house.
4.Ianatan I. and Duma M., 2003 - Grafting in green, an important lever in the conversion of plantations wine. Publisher Traiad Dorz- Simeria.
5.Popesscu V, Chira L., Dejeu L., 2001 - Production of planting material for vegetables, trees and vines, M. A. S publishing house
6.Târdea C. and Dejeu L., 1995 - Viticulture. Didactic and Pedagogical Publishing House, Bucharest.
7.Vişoiu Emilia, 2001 - The technology of devirozareos varieties of vine by in vitro cloning. PhD thesis, U.S.A.M.V. Iasi.
7. Vişoiu Emilia et al., 2002 - Viticulture with the basis of producing viticulture planting material with high biological value. Phoenix Publishing House, Brasov, 2002

Evaluation

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

Contact

Assoc. Prof. PhD. Mihai MUSTEA
Faculty of Horticulture - USAMV Iaşi
Aleea Mihail Sadoveanu nr. 3, Iaşi, 700490, Romania
Tel: 0040232407341, fax: 0040 232 219175
E-mail: mmustea@uaiasi.ro