

## **Fruit trees varieties, rootstocks and shrubs cultivation (IIIrd Year of study, Vth Semester)**

**Credit value (ECTS) 4**

### **Course category**

Domain (Imposed)

### **Course holder:**

**Assist. Prof. PhD. Marius Constantin DASCALU**

### **Discipline objectives (course and practical works)**

Discipline aims , in theory and practical training of the students in the field of fruit trees culture respectively: nursery, establishment and maintenance of orchards for temperate species (Apple, Pear, Quince, Sweet cherry, Sour cherry, Plum, Walnut, Common hazel, Chestnut, Strawberry, Blueberry, Raspberry, Blackberry, Gooseberry, European blueberry, Buckthorn, European Cornell, Dog rose, Elderberry, Damask rose).

### **Contents (syllabus)**

<b>Course (chapters/subchapters)</b>
Definitions, Terminology, classification of the fruit tree species .
Morphology and physiology of the fruit tree species
The life cycle of the fruit tree species
The ecology of fruit trees and shrubs.
Nursery for fruit trees and shrubs.
New orchard establishment.
Maintenance technology for orchards.
Apple tree cultivation
Pear tree cultivation
Sweet and sour tree cultivation
Plum tree cultivation
Walnut and Common hazel cultivation
Elements regarding on shrubs cultivation.

<b>Practical works</b>
Fructifying branches for apple and pear trees
Fructifying branches for quince tree
Fructifying branches for sweet and sour cherry trees
Fructifying branches for plum trees
Fructifying branches for walnut, common hazel and chestnut trees
Fructifying branches for shrubs
Crown shapes – globular with central spindle and without central spindle.
Crown shapes – flattened with central spindle and small volume

Grafting systems – grafing with detached buds and branches
Main apple varieties
Main pear varieties
Main sweet and sour cherry varieties
Main plum varieties
Main walnut, common hazel and chestnut varieties
Main shrubs varieties.

### Bibliography

1. Ceapoiu N., - Înființarea unei plantații pomicole, Ed. Ceres, București, 1994.
2. Cepoiu N. și colab., - Curs de pomicultură biologică, U.S.A.M.V. București, 1996.
3. Cireașă V., - Pomicultură generală, curs lito., Uai, 1995.
4. Cireașă V., Drobotă Gh., Drobotă Mari - Ann, - Pomicultură generală - Îndrumător de lucrări practice, lito U.A.I., 1990.
5. Grădinariu G., Istrate M., Dascălu M., 1998- Pomicultură, Ed. Moldova.
6. Grădinariu, G. (2002) – Pomicultură specială. Editura „Ion Ionescu de la Brad”, Iași.
7. Istrate M., 2007 - Pomicultură generală. Editura „Ion Ionescu de la Brad”, Iași.

### Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Exam	Oral examination	90%
Appreciation of the activity during the semester	Oral assessment during the semester, verification tests and final laboratory colloquium.	10%

### Contact

**Assist. Prof. PhD. Marius Constantin DASCALU**

Faculty of Horticulture - USAMV Iași

Aleea Mihail Sadoveanu nr. 3, Iași, 700490, Romania

telefon: 0040 232 407526, fax: 0040 232 219175

E-mail: [mdascalu@uaiasi.ro](mailto:mdascalu@uaiasi.ro)