DISCIPLINE FILE

1.Program data

1.1 Superior education institution	**UNIVERSITY OF ORADEA**
1.2 Faculty	**ENVIRONMENT PROTECTION**
1.3 Department	**AGRICULTURE, HORTICULTURE**
1.4 Field of study	**ENGINEERING**
1.5 Study cycle	**LICENSE**
1.6 Study Program / Qualification	**HORTICULTURE / ENGINEER**

2. Discipline data

2.1 Name of the discipline			POMOLOGY II				
2.2 Course owner			GÎTEA MANUEL ALEXANDRU				
2.3 Seminar / laboratory / project owner			GÎTEA MANUEL ALEXANDRU				
2.4 Year of study	IV	2.5 Semester	VIII	2.6 Type of evaluation	EX	2.7 The discipline regime	I

(I) Imposed; (O) Optional; (F) Facultative

3. Estimated total time (hours per semester of teaching activities)

3.1 Number of hours per week	4	of which: 3.2 cours	2	3.3 seminar / laboratory / project	2
3.4 Total hours of the curriculum	56	of which 3.5 cours	28	3.6 seminar / laboratory / project	28

Distribution of Time Fund	ore
Study after manual, course support, bibliography and notes	30
Additional documentation in the library, on the specialized electronic platforms and on the field	25
Training seminars / laboratories, themes, papers, portfolios and essays	15
Tutorial	5
Examinations	5
Other activities.....	4

3.7 Total hours of individual study	**56**
3.9 Total hours per semester	**84**
3.10 Number of credits	**4**

4. Preconditions (where applicable)

4.1 curriculum	Botany, Plant physiology, General Pomiculture
4.2 of skills	-

5. Conditions (where applicable)

5.1. course	Projector
5.2. the seminar / laboratory / project	Planes, fruit molds, vegetable materials

6. Specific skills accumulated

Professional skills	C5 Use of modern and specific techniques for tasting horticultural products and appreciation of their quality - Define the principles of methods of assessing the quality of horticultural products - Description of potential specific and non-specific influences on the quality of horticultural products. - Developing a set of criteria that underpin the evaluation of the quality of horticultural products and the design of solutions related to the improvement of the applied production technologies - Justification of the specific features of different horticultural products in terms of taste and of the elements of production technology that influence the quality of these products. - Using a set of complex methods based on personal natural tasting skills to identify and evaluate the gustatory qualities of horticultural products

Transversal skills	CT2 Applying effective communication techniques in team-specific activities, assuming a role within the team and respecting the principles of division of labor.

7. The objectives of the discipline (based on the specific skills grid)

7.1 The general objective of the discipline	Undertaking by students of the basic notions of crop species of fruit trees.
7.2 Specific objectives	Developing habits for maintenance of tree plantations.

8. Content*

8.1 Course	Teaching methods	Nr. Hours / Observations
Walnut culture. Importance, origin, biological features..	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Walnut culture. Technological features.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Cultivation of hazelnuts. Importance, origin, biological features. Technological features.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
The culture of edible chestnut. Importance, origin, biological and technological characteristics	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Strawberry culture. Importance, origin, biological and technological features.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Raspberry culture. Importance, origin, biological and technological characteristics.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Blackberry culture. Importance, origin, biological and technological characteristics.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Gooseberry and barberry culture. Importance, origin, ioblogical and technological characteristics.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Cranberries culture. Importance, origin, biological and technological characteristics.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Seabuckthorn culture. Importance, origin, biological and technological characteristics.	Interactive lecture, logical and deductive presentation, explanation, constructive	2

	debate	
The fig culture. Importance, origin, Biological and technological characteristics.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Lemon culture of the apartment. Importance, origin, Biological and technological characteristics	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2

Bibliography

1. AMZĂR, GH., 1992, Influența înierbării solului din livadă asupra creşterii şi fructificării mărului, Lucrări ştiințifice I.C.D.P. Piteşti, vol. XV, 56-60.
2. ARDELEAN, M., 1986, Ameliorarea plantelor horticole şi Tehnică experimetală, Tipo Agronomia Cluj-Napoca.
3. BRANIŞTE, N., N. ANDRIEŞ, 1990, Soiuri rezistente la boli şi dăunători în pomicultură, Editura Ceres Bucureşti
4. BRANIŞTE, M., 2004, Sortimente la măr în Europa, prezent şi perspective – Rev. Horticultura 3/189
5. COCIU, V., 1990, Soiuri noi – factor de progres în pomicultură, Editura Ceres Bucureşti.
6. COCIU, V., I. BOTU, L. ŞERBOIU, 1999, Progrese în ameliorarea plantelor horticole din România, Mărul, Ed.Ceres, Bucureşti, 21-51.
7. DRĂGĂNESCU, E., 2002, Pomologia, Editura Mirton Timişoara.
8. DRĂGĂNESCU, E., E. MIHUȚ, 2003, Pomicultură, Ed. Agroprint Timişoara.
9. ROPAN G., NASTASIA POP, 1991, Pomologie, Îndrumător de lucrări practice, Tipo Agronomia, Cluj-Napoca.
10. ROPAN, G., V. MITRE, 1993, Pomicultura generală, Îndrumător de lucrări practice, Tipo Agronomia, Cluj-Napoca.
11. ROPAN, G. V. MITRE, 1995, Pomicultură specială, Îndrumător de lucrări practice, Tipo Agronomia, Cluj Napoca.

8.2 Laboratory	Teaching methods	Nr. Hours / Observations
Raspberry varieties. Characters of determination. The main varieties of raspberries.	Practical description of the identification of raspberry varieties	2
Blackberry varieties. Characters of determination. The main varieties of blackberries.	Practical description of the identification of blackberry varieties	2
Variety of gooseberry. Characters of determination. The main varieties of gooseberries.	Practical description of the identification of gooseberry varieties	2
Bilberry varieties. Characters of determination. The main varieties of bilberries.	Practical description of the identification of bilberry varieties	2
Varieties of barberry. Characters of determination. The main varieties of barberries.	Practical description of the identification of barberry varieties	2
General principles on maintenance and fructification cuts.	Practical study of maintenance and fructification cuttings in fruit trees	2
Cuttings for maintenance and fructification in seeds. Cuttings for apple maintenance.	Practical study of apple maintenance and fructification cuts	2
Cuttings for maintenance and fructification in seeds.	Practical study of	2

Cuts to pear and quince.	maintenance and fruiting cuts in pear and quince	
Cuttings for maintenance and fructification in stumps. Cuttings for plum and apricot maintenance.	Practical study on maintenance and fructification cuttings in plum and apricot	2
Cuttings for maintenance and fructification in stumps. Cuttings for peaches and almonds.	Practical study of peaches and almonds maintenance and fructification	2
Cuttings for maintenance and fructification in stumps. Cuttings for cherry and sour cherry.	Practical study of the maintenance and fructification cuttings of cherry and sour cherry	2
Cuttings for maintenance and fructification of nuts. Cuttings for walnut and hazelnuts.	Practical study of maintenance and fructification cuts in walnut and hazelnuts	2
Cuttings for maintenance and fructification in shrubs. Cuttings for raspberries, blackberries, gooseberries, barberries.	Practical study on cuts in maintenance and fructification fruit shrubs	2
Cuttings for maintenance and fructification in shrubs. Cuttings for the maintenance of bilberries, white sea buckthorn.	Practical study on cuts in maintenance and fructification fruit shrubs	2
8.4 Project	-	-

Bibliography

1. AMZĂR, GH., 1992, Influenţa înierbării solului din livadă asupra creşterii şi fructificării mărului, Lucrări ştiinţifice I.C.D.P. Piteşti, vol. XV, 56-60.
2. ARDELEAN, M., 1986, Ameliorarea plantelor horticole şi Tehnică experimetală, Tipo Agronomia Cluj-Napoca.
3. BRANIŞTE, N., N. ANDRIEŞ, 1990, Soiuri rezistente la boli şi dăunători în pomicultură, Editura Ceres Bucureşti
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6. COCIU, V., I. BOTU, L. ŞERBOIU, 1999, Progrese în ameliorarea plantelor horticole din România, Mărul, Ed.Ceres, Bucureşti, 21-51.
7. DRĂGĂNESCU, E., 2002, Pomologia, Editura Mirton Timişoara.
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10. ROPAN, G., V. MITRE, 1993, Pomicultura generală, Îndrumător de lucrări practice, Tipo Agronomia, Cluj-Napoca.
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* It will specify the content, respectively the number of hours allocated to each course / seminar / laboratory / project during the 14 weeks of each semester of the academic year.

9. Corroborating the contents of the discipline with the expectations of the epistemic community representatives, professional associations and representative employers in the field of the program

- By acquiring knowledge of pomology, students acquire a consistent knowledge of knowledge, consistent with the partial competencies required for the possible occupations provided by RNCIS
- The content of the course is adapted to the requirements of the epistemic community, professional associations and employers in the field of Horticulture.
- The course acquires useful knowledge both for the horticulture managers within the local authorities, the industry and the horticultural companies.

10. Evaluation

Activity type	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Weight in Final Score
10.4 Course	Oral or written exam	Oral or written	70%
10.5 Seminary	-	-	-
10.6 Laboratory	Colloquium practically individual	Oral	30%
10.7 Project	-	-	-

10.8 Minimum performance standard

• Minimum requirements for Note 5:
- score 5 at the oral or written exam
- minimum grade 7 at the practical colloquium
- knowledge of general data accumulated over the semester

• Requirements for Note 10:
- score 9 at the oral or written exam
- minimum grade 9 at the practical colloquium
- knowledge of additional data accumulated by study literature

Date of completion

01.10.2020

Signature of course holder **

Lecturer dr.eng. Gîtea Manuel
E-mail: giteamanuel@yahoo.com

Signature of Holder ** of seminar / laboratory / project

Lecturer dr.eng. Gîtea Manuel
E-mail: giteamanuel@yahoo.com

Date of approval in the department

07.10.2020

Signature of Director of departament

Prof. dr. eng. Bandici Gheorghe Emil

Sign Dean

Prof. dr. eng. Chereji Ioan