

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					
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	VII	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					hours
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+1				

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	C1 Elaboration and use of sustainable horticultural production technologies
	<ul style="list-style-type: none"> - Qualitative and quantitative analysis of the effects of the technologies used - Application of modern horticultural production technologies, customized and optimized using appropriate methods, techniques and procedures - Description of the scientific, theoretical and practical fundamentals underpinning the application of sustainable horticultural production technologies - Elaboration of sustainable technological solutions for conventional horticultural production systems, design of alternative production systems and appropriate technologies for particular cases - Explaining and interpreting the use of different technological links and the interrelations between horticultural production systems and the environment.

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.
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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 the particularities of fruit varieties and varieties.
7.2 Specific objectives	Developing skills to set up and maintain fruit trees.

8. Content*

8.1 Course	Teaching methods	Nr. Hours / Observations
Variety and assortment in fruit growing; Technologies differentiated in fruit growing	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Apple culture. Importance, Biological features	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Apple culture. Technological features.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Pear culture. Importance, origin, Biological and technological characteristics	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Quince culture. Importance, origin, Biological and technological characteristics	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Plum culture. Importance, Biological features	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Plum culture. Technological features.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Apricot culture. Importance, origin, biological features.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Apricot culture. Technological features.	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2

Peach culture. Importance, origin, Biological and technological characteristics	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
The almond culture. Importance, origin, Biological and technological characteristics	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Cherry culture. Importance, origin, Biological and technological characteristics	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Culture of sour cherry. Importance, origin, Biological and technological characteristics	Interactive lecture, logical and deductive presentation, explanation, constructive debate	2
Bibliography		
<ol style="list-style-type: none"> 1. AMZĂR, GH., 1992, Influența înierbării solului din livadă asupra creșterii și fructificării mărului, Lucrări științifice I.C.D.P. Pitești, vol. XV, 56-60. 2. ARDELEAN, M., 1986, Ameliorarea plantelor horticole și Tehnică experimentală, Tipo Agronomia Cluj-Napoca. 3. BRANIȘTE, N., N. ANDRIEȘ, 1990, Soiuri rezistente la boli și dăunători în pomicultură, Editura Ceres București 4. BRANIȘTE, M., 2004, Sortimente la măr în Europa, prezent și perspective – Rev. Horticultura 3/189 5. COCIU, V., 1990, Soiuri noi – factor de progres în pomicultură, Editura Ceres București. 6. COCIU, V., I. BOTU, L. ȘERBOIU, 1999, Progrese în ameliorarea plantelor horticole din România, Mărul, Ed.Ceres, București, 21-51. 7. DRĂGĂNESCU, E., 2002, Pomologia, Editura Mirton Timișoara. 8. DRĂGĂNESCU, E., E. MIHUȚ, 2003, Pomicultură, Ed. Agroprint Timișoara. 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
Methodology for the elaboration of pomological descriptions and for the identification of tree varieties and fruit shrubs.	Practical description of the description of tree and shrub varieties	1
Apple varieties. Characters of determination. The main apple varieties.	Practical appraisal description of apple varieties	1
Pear varieties. Characters of determination. Main pear varieties.	Practical description of identification of pear varieties	1
Quince varieties. Characters of determination. The main quince varieties.	Practical description of quince variety identification	1
Plum varieties. Characters of determination. The main plum varieties.	Practical description of the description of the plum varieties	1

Apricot varieties. Characters of determination. Main apricot varieties.	Practical description of the identification of apricot varieties	1
Peach varieties. Characters of determination. The main peach varieties.	Practical description of peach tree identification	1
Cherry varieties. Characters of determination. Main varieties of cherry.	Practical description of identification of cherry varieties	1
Sour cherry varieties. Characters of determination. Main varieties of cherry.	Practical description of sour cherry varieties	1
Walnut varieties. Characters of determination. Main varieties of walnut.	Practical description of walnut varieties	1
Hazelnut varieties. Characters of determination. Main varieties of hazelnuts.	Practical description of the description of hazelnut varieties	1
Chestnut varieties. Characters of determination. The main chestnut varieties.	Practical description of identification of chestnut varieties	1
Almond varieties. Characters of determination. The main almond varieties.	Practical description of the identification of almond varieties	1
Strawberry varieties. Characters of determination. The main strawberry varieties.	Practical description of the description of strawberry varieties.	1
8.4 Project	-	-
Project for the establishment and maintenance of with an area of	Theoretical and practical case study	14
Bibliography		
<ol style="list-style-type: none"> 1. AMZĂR, GH., 1992, Influența înierbării solului din livadă asupra creșterii și fructificării mărului, Lucrări științifice I.C.D.P. Pitești, vol. XV, 56-60. 2. ARDELEAN, M., 1986, Ameliorarea plantelor horticole și Tehnică experimentală, Tipo Agronomia Cluj-Napoca. 3. BRANIȘTE, N., N. ANDRIEȘ, 1990, Soiuri rezistente la boli și dăunători în pomicultură, Editura Ceres București 4. BRANIȘTE, M., 2004, Sortimente la măr în Europa, prezent și perspective – Rev. Horticultura 3/189 5. COCIU, V., 1990, Soiuri noi - factor de progres în pomicultură, Editura Ceres București. 6. COCIU, V., I. BOTU, L. ȘERBOIU, 1999, Progrese în ameliorarea plantelor horticole din România, Mărul, Ed.Ceres, București, 21-51. 7. DRĂGĂNESCU, E., 2002, Pomologia, Editura Mirton Timișoara. 8. DRĂGĂNESCU, E., E. MIHUȚ, 2003, Pomicultură, Ed. Agroprint Timișoara. 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. 		

* 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	Oral exam	Oral	100%
10.8 Minimum performance standard			
<ul style="list-style-type: none"> • Minimum requirements for Note 5: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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
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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 department

Prof. dr. eng. Bandici Gheorghe Emil

Sign Dean

Prof. dr. eng. Chereji Ioan