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			Revizia:				
	Structura emitentă: <i>Prorectorat Management Academic</i>		10	11	12	13	14
		COD: SEAQ_PS_PrMA_01					

SEAQ_PS_PrMA_A.06

COURSE SYLLABUS

1. Information about the programme

1.1 Institution of higher education	UNIVERSITY OF ORADEA
1.2 Faculty	ENVIRONMENTAL PROTECTION
1.3 Department of	AGRICULTURE, HORTICULTURE
1.4 Field of study	LANDSCAPING
1.5 Level of study	UNDERGRADUATE
1.6 Study programme / Qualification	LANDSCAPING /ENGINEER

2. Discipline data:

2.1 Course name		POMOLOGY					
2.2 Course coordinator		GÎTEA MANUEL ALEXANDRU					
2.3 Seminar/ Lab/ Project coordinator		GÎTEA MANUEL ALEXANDRU					
2.4 Year of study	III	2.5 Semester	6	2.6 Type of assessment	Cv..	2.7 Type of discipline	C

(C) Compulsory; (O) Optional; (E) Elective

3. Total time estimated (hours of teaching per semester)


3.1 Number of hours per week	4	of which: 3.2 course	2	3.3 laboratory/ project	2
3.4 Total hours in the curriculum	56	of which: 3.5 course	28	3.6 laboratory/project	28
Distribution of time					hours
Study based on course book, course materials, bibliography and notes					30
Additional documentation in the library, on specialized electronic platforms / in the field					25
Training seminars / laboratories, homework, essays, portfolios and essays					15
Tutoring					5
Examinations					5
Other activities.....					4
3.7 Total hours of private study	56				
3.9 Total hours per semester	84				
3.10 Number of credits	4				

4. Prerequisites (where applicable)

4.1 curriculum	Botany, Plant physiology, Agrotechnics
4.2 competences	Knowledge of morphology, plant anatomy, cultivation and growth of plants, soil work

5. Conditions (where applicable)

5.1. for the course	- Presentation, video-projector, computer, boards, moulds
5.2. for the laboratory	- Equipment necessary for the laboratory hours;

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	- Writing the report, knowledge of the concepts contained in the laboratory work to be carried out (synthesis material); - Carrying out all laboratory work.
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6. Specific skills acquired	
Professional skills	C1.1 Description of the scientific, theoretical and practical foundations underlying the application of sustainable horticultural production technologies C1.2 Explain and interpret the use of different technological links and the interrelationships between cultivation systems and customized modern horticultural production technologies, and their optimization using appropriate methods, techniques and procedures
Transversal competences	CT1. Drawing up and following a work program and carrying out one's own tasks with professionalism and rigor

7. Course objectives (based on the grid of the skills acquired)

7.1 The overall objective of the course	The "Pomology" course aims to know the organography, biology and technology applied in tree orchards in order to obtain large and sustained productions every year.
7.2 Specific objectives	The laboratory works are designed so as to provide students with the following skills: knowledge of the anatomy and morphology of each fruit tree species, knowledge of the actual preparation and planting of fruit tree species, maintenance of young orchards and on the fruit, knowledge of cuttings for formation and fruiting of fruit tree species, the administration of organic and mineral fertilizers as well as the irrigation of the fruit crops, the valorisation of the obtained production.

8. Contents*

8.1 Course	Teaching methods	No. of hours / Comments
1. Definition, object and importance of pomology; Fruit tree regions in Romania;	Presentation, video-projector, computer, boards, moulds	2
2. Classification of fruit trees and shrubs. Differences between trees grown on their own roots and the grafted ones;	Presentation, video-projector, computer, boards, moulds	2
3. Polarity and its effects on tree growth; Age periods of trees; Requirements of trees and shrubs to environmental factors;	Presentation, video-projector, computer, boards, moulds	2
4. The rooring alternation of trees; Tree nursery;	Presentation, video-projector, computer, boards, moulds	2
5. Production of grafted trees.	Presentation, video-projector, computer, boards, moulds	2
6. Vegetative multiplication of fruit trees and shrubs;	Presentation, video-	2



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	projector, computer, boards, moulds	
7. Grafting systems;	Presentation, video-projector, computer, boards, moulds	2
8. Establishment of tree plantations	Presentation, video-projector, computer, boards, moulds	2
9. Soil tillage in orchards	Presentation, video-projector, computer, boards, moulds	2
10. Fertilization in fruit growing	Presentation, video-projector, computer, boards, moulds	2
11. Irrigation of orchards	Presentation, video-projector, computer, boards, moulds	2
12. Cutting down trees	Presentation, video-projector, computer, boards, moulds	2
13. Crown shapes;	Presentation, video-projector, computer, boards, moulds	2
14. Fruit harvesting	Presentation, video-projector, computer, boards, moulds	2
Bibliography <ol style="list-style-type: none"> Gîtea Manuel Alexandru, 2012 – Pomicultură ,Partea I Gîtea Manuel Alexandru, 2012 – Pomicultură ,Partea II Bunea Aurel, 1999 – <i>Pomicultura</i>. Ed. Universității Oradea Drăgănescu E., 1998 – <i>Pomicultură</i>. Ed. Mirton Timișoara N. Ghena, N. Braniște, 2003 – <i>Cultura specială a pomilor</i> Ed. Matrix Rom. București Drăgănescu E., Mișuț E., 2005 – <i>Cultura speciilor pomicole</i>, Ed. Waldpress, Timișoara. Ghena N., Braniște N., Stănică F., 2004 – <i>Pomicultură generală</i>, Ed. Matrix Rom, București. <i>Catalog de soiuri și material săditor pomicol (ghid pepinieristic)</i>, 2018 Ed Ceres București. 		
8.2 Laboratory	Teaching methods	No of hours / Comments
1. The root system	Presentation, video-projector, computer, boards, moulds	2
2. The air system	Presentation, video-projector, computer, boards, moulds	2
3. Fruiting branches to pome fruits	Presentation, video-projector, computer, boards, moulds	2
4. Fruiting branches to stone fruits	Presentation, video-projector, computer, boards, moulds	2
5. The effect of polarity on branches	Presentation, video-projector, computer, boards,	2

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	moulds	
6. Grafting of various species of fruit trees.	Presentation, video-projector, computer, boards, moulds	2
7. Carrying out different types of propagation (by splitting the shrubs, by root suckers, by stolons, by marcottes, by cuttings)	Presentation, video-projector, computer, boards, moulds	2
8. Planting different fruit tree species	Presentation, video-projector, computer, boards, moulds	2
9. Planting different fruit tree species	Presentation, video-projector, computer, boards, moulds	2
10. Cutting and directing the branches of different fruit tree species	Presentation, video-projector, computer, boards, moulds	2
11. Cutting and directing the branches of different fruit tree species	Presentation, video-projector, computer, boards, moulds	2
12. Cutting and directing the branches of different fruit tree species	Presentation, video-projector, computer, boards, moulds	2
13. Cutting and directing the branches of different fruit tree species	Presentation, video-projector, computer, boards, moulds	2
14. Colloquium		2
Bibliography <ol style="list-style-type: none"> 1. Gîtea Manuel Alexandru, 2012 – Pomicultură ,Partea I 2. Gîtea Manuel Alexandru, 2012 – Pomicultură ,Partea II 3. Bunea Aurel, 1999 – <i>Pomicultura</i>. Ed. Universității Oradea 4. Drăgănescu E., 1998 – <i>Pomicultură</i>. Ed. Mirton Timișoara 5. N. Ghena, N. Braniște, 2003 – <i>Cultura specială a pomilor</i> Ed. Matrix Rom. București 6. <i>Catalog de soiuri și material săditor pomicol (ghid pepinieristic)</i>, 2018 Ed Ceres București. 		
8.4 Project		

9. Corroborating the content of the discipline with the expectations of the epistemic community, professional associations and representative employers within the field of the programme

The content of the discipline is adapted and meets the requirements imposed by the labour market, agreed by the social partners, professional associations and employers in the field related to the license program. The content of the discipline can be found in the curriculum of Landscaping specialization and in other university centres in Romania, which have accredited this specialization.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	Oral and written colloquium	Oral or written exam	70%
10.5 Seminar	-	-	-
10.6 Laboratory	Practical individual colloquium	Oral	30%
10.7 Project	-	-	-

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10.8 Minimum standard performance:

- Minimum requirements for grade 5:
 - minimum grade 5 in the oral or written exam
 - minimum grade 7 in the practical colloquium
 - knowledge of general data gained during the semester

- Requirements for grade 10:
 - minimum grade 9 in the oral or written exam
 - minimum grade 9 in the practical colloquium
 - knowledge of additional data gained through the study of the specialized literature

Date of submission

Course coordinator/project

Seminar coordinator

01.10.2020

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Date of approval in the department

Head of the department signature

PhD. Prof. Eng. Bandici Gheorghe Emil

07.10.2020

Dean

PhD. Prof. Eng Cheregi Ioan