

Annex 6

DISCIPLINE DESCRIPTION

1. Information on the study programme

1.1 Academic institution	UNIVERSITY OF ORADEA
1.2 Faculty	FACULTY OF ENVIRONMENTAL PROTECTION
1.3 Department	AGRICULTURE, HORTICULTURE
1.4 Field of study	HORTICULTURE
1.5 Cycle of study	BACHELOR
1.6 Study programme/Qualification	HORTICULTURAL ENGINEER

2. Information on the discipline

2.1 Name of discipline	VITICULTURE I						
2.2 Course holder	VIDICAN IULIANA TEODORA						
2.3 Seminar/Laboratory/Project holder	CĂRBUNAR MIHAI MARCEL						
2.4 Year of study	III	2.5 Semester	5	2.6 Type of evaluation	Ex	2.7 Regime of discipline	C

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

3. Total estimate time (hours per semester of didactic activities)

3.1 Number of hours per week	4	out of which: 3.2 course	2	out of which 3.3 seminar/laboratory/project	1
3.4 Total hours in the curriculum	42	out of which: 3.5 course	28	out of which 3.6 seminar/laboratory/project	14
Time allotment					hours
Study assisted by manual, course support, bibliography and notes					30
Additional documentation in the library/ on specialised electronic platforms and in the field					10
Preparation of seminars/laboratories/ topics/reports, portfolios and essays					26
Tutorship					-
Examinations					4
Other activities.....					-
3.7 Total hours of individual study	70				
3.9 Total hours per semester	42				
3.10 Number of credits	4				

4. Prerequisites (where appropriate)

4.1 curriculum	(Conditionari) Botany, Plant Physiology, Agrotechnics
4.2 competences	Knowledge of technology vine

5. Conditions (where appropriate)

5.1. related to course	Video projector, computer, drawings, teaching materials
5.2. related to seminar/laboratory/ project	- Equipment related to laboratory hours; - Preparation of the report, knowledge of the notions contained in the laboratory work to be performed (synthesis material); - Carrying out all laboratory work.

6. Specific competences acquired	
Professional competences	<p>C1. Development and use of sustainable horticultural production technologies</p> <ul style="list-style-type: none"> • C1.1 Development and use of sustainable horticultural production technologies • C1.2 Application of modern, customized horticultural production technologies and their optimization using appropriate methods, techniques and procedures • C1-3 Description scientific basis, theoretical and practical, which underlie the sustainable horticultural production technologies • C1-4 Explanation and interpretation using different technological links and relations between horticultural production systems and the environment <p>C3. Development of a horticultural production chain</p> <ul style="list-style-type: none"> • C3.1 Elaboration and implementation of a medium and long term strategy for the operation of the horticultural sector and / or an annual operational plan • C3.2 Explain the principles of organization, functioning and management of a horticultural branch and identify the actors that can be integrated into it
Transversal competences	<p>CT2 Application of efficient communication techniques in the specific activities of teamwork, assuming a role within the team and respecting the principles of division of labor</p> <p>CT3 Objective self-assessment of the need for continuous professional training in order to constantly adapt and respond to the demands of economic development.</p>

7. Objectives of discipline (coming from the specific competences acquired)

7.1 General objective	The “VITICULTURE I” course presents to the students specialized knowledge related to viticulture regarding the classification of cultivated vines, the physiological particularities of the vine, fruiting, water supply of the vine, feeding with nutrients, influence of climatic, edaphic, chemical factors, orographic on the vine. It also presents the ontogenetic and biological cycle of the vine, etc.
7.2 Specific objectives	Laboratory work is designed to provide future engineers practical skills in the design, construction, research, operation and maintenance of vineyards. The content of the laboratory papers presented is based on the need to deepen the problems presented in the course. Knowledge is useful in developing skills in addressing the specific issues facing a specialist in viticulture.

8. Content*/

8.1 Course	Methods of teaching	No. of hours/Remarks
1. Introduction to viticulture	Video overhead projector lecture/ debate, free speech accompanied by notation on the board of drawings, formulas, sketches and diagrams, overhead projector Presentation of the theoretical aspects related to the subject.	2 hours
2. The origin of the emergence, evolution and systematic vitaceelor	Idem	
3. The classification of vines cultivated	Idem	2 hours
4. Physiological peculiarities of the vine - the study of organs	Idem	
5. The growth of shoots, leaves, buds, cords, the arms and the torso	Idem	2 hours
6. Fruiting . The physiological phases of vine fruiting	Idem	
7. The relationship between growth and fruiting. Ripening of shoots, ripening of grapes. Relationships between grain ripening and shoots	Idem	2 hours
8. The water supply of the vine. Vine supply with nutrients. Defensive reactions of the vine.	Idem	
9. Biology of the vine. Vine reactions in relation to ecological factors. The influence of climatic factors on the vine.	Idem	2 hours
10. The influence of edaphic factors on the vine	Idem	
11. The influence of orographic factors on the vine. The influence of biotope secondary factors on vines.	Idem	2 hours
12. The ontogenetic cycle of the vine	Idem	
13. The annual biological cycle of the vine. Active period of vegetation. Phenophases passage phenophases vegetative organs, phenophases fruit organs.	Idem	2 hours
14. The annual biological cycle of the vine. The period of physiological rest	Idem	2 hours
Bibliography <ol style="list-style-type: none"> 1. Viorel Cheregi -Viticultura , Editura Universității din Oradea 2003 2. Viorel Cheregi - Viticultura ecologica , Editura Universității din Oradea 2003 3. Viorel Cheregi - Viticultura speciale , Editura Universității din Oradea 1998 4. Viorel Cheregi – Lucrări practice la viticultură și vinificație, Editura Universității din Oradea 2000 5. Viorel Cheregi – Lucrări practice la viticultură generală, Editura Universității din Oradea 2000 6. L. Dejeu - Viticultura , Editura Didactică și Pedagogică, București 1995 7. St. Oprea - Viticultura, Editura Dacia, Cluj - Napoca 1995 8. L. Dejeu, A. Chira - Viticultura biologica 9. M. Oslobeanu - Viticultura generala si speciala , Editura Didactică și Pedagogică, București 1980 		

8.2 Seminar	Methods of teaching	No. of hours/ Remarks
8.3 Laboratory		
1. Study of the dry organs of the stump: root.	In the first laboratory hour, the notions related to labor protection will be presented by the coordinating teacher of the laboratory works.	1 hour
2. The study of the dry organs of the stump: the stem.	Presentation of theoretical and practical aspects, discussions, case studies	1 hour
3. The study of the dry organs of the stump: winter crown and buds.	Idem	1 hour
4. Study of the green organs of the vine stem: the shoot, the leaf and the fasteners	Idem	1 hour
5. The study of the green organs of the vine stem: the flower and the pollen	Idem	1 hour
6. Study of the green organs of the vine stem: grapes, berry, seed.	Idem	1 hour
7. Production of viticultural planting material: categories of planting material	Idem	1 hour
8. Harvesting and storage of graft ropes and rootstocks	Idem	1 hour
9. Production of viticultural planting material: production of grafted vines and those on their own roots	Idem	1 hour
10. Planting and care in the cattle school	Idem	1 hour
11. Planting of vines: planting period and methods	Idem	1 hour
12. Planting vines on solid land	Idem	1 hour
13. Planting vines on sands	Idem	1 hour
14. Knowledge testing and laboratory retrieval	Teaching papers and supporting them; Recovery of overdue laboratories	1 hour
8.4 Project		
Bibliography <ol style="list-style-type: none"> Viorel Cheregi -Viticultura , Editura Universității din Oradea 2003 Viorel Cheregi - Viticultura ecologica , Editura Universității din Oradea 2003 Viorel Cheregi - Viticultura speciale , Editura Universității din Oradea 1998 Viorel Cheregi – Lucrări practice la viticultură și vinificație, Editura Universității din Oradea 2000 Viorel Cheregi – Lucrări practice la viticultură generală, Editura Universității din Oradea 2000 L. Dejeu - Viticultura , Editura Didactică și Pedagogică, București 1995 St. Oprea - Viticultura, Editura Dacia, Cluj - Napoca 1995 L. Dejeu, A. Chira - Viticultura biologică M. Oslobeanu - Viticultura generala si speciala , Editura Didactică și Pedagogică, București 1980 		

* The content, respectively the number of hours allocated to each course / seminar / laboratory / project will be detailed during the 14 weeks of each semester of the academic year.

9. Corroboration of discipline content with the expectations of the epistemic community, professional associations and representative employers from the field corresponding to the study programme

<ul style="list-style-type: none"> • The content of the discipline is adapted and satisfies the requirements imposed by the labor market, being agreed by the social partners, professional associations and employers in the field related to the bachelor program. • The content of the discipline is found in the curriculum of the Horticulture specialization and from other university centers in Romania that have accredited these specializations, so the knowledge of the basic notions is a stringent requirement of the employers in the field of agriculture-horticulture.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the final grade
10.4 Course	- For note 5: all topics should be treated minimum standards; For notes > 5: all topics should be treated at the maximum standards;	Written or oral exam - duration 2 hours.	60 %
10.5 Seminar			
10.6 Laboratory	In the last laboratory session, the students will present the laboratory works performed, respectively the results obtained.	All laboratory work must be performed. - The weight of the laboratory is 40% of the value of the exam grade. - Only one remaining laboratory is allowed to be recovered (in the last week of the semester)	40 %
10.7 Project			
10.8 Minimum standard of performance			
Performing works under the supervision of a teacher, to solve specific problems landscape design, with the correct assessment of the workload, the resources available and the time needed for completion.			

Date of completion

Signature of course holder**

Signature of seminar
laboratory/project holder **

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