

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	MASTER STUDIES
1.6 Study programme/Qualification	HORTICULTURAL ENGINEER

2. Information on the discipline

2.1 Name of discipline	MODERN TECHNOLOGIES IN VITICOLE FARMS						
2.2 Course holder	VIDICAN IULIANA TEODORA						
2.3 Seminar/Laboratory/Project holder	CĂRBUNAR MIHAI MARCEL						
2.4 Year of study	I	2.5 Semester	2	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	2	out of which: 3.2 course	1	out of which 3.3 seminar/laboratory/project	1
3.4 Total hours in the curriculum	28	out of which: 3.5 course	14	out of which 3.6 seminar/laboratory/project	14
Time allotment					hours
Study assisted by manual, course support, bibliography and notes					10
Additional documentation in the library/ on specialised electronic platforms and in the field					15
Preparation of seminars/laboratories/ topics/reports, portfolios and essays					10
Tutorship					-
Examinations					4
Other activities.....					-
3.7 Total hours of individual study	35				
3.9 Total hours per semester	28				
3.10 Number of credits	6				

4. Prerequisites (where appropriate)

4.1 curriculum	(Conditionari) Viticulture I, Viticulture II, Plant Physiology, Agrotechnics, Phytopathology, Entomology
4.2 competences	Knowledge of technology vine

5. Conditions (where appropriate)

5.1. related to course	Video projector, computer.
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 course of Modern Technologies in Viticole Farms presents to the students specialized knowledge related to special viticulture, the vineyards in Romania and the varietal, geographical conveyor and the zonal distribution of the table grape varieties.
7.2 Specific objectives	Laboratory work is designed to provide future engineers practical skills on the ampelographic and ampelometric characteristics of the vine organs but also on the description of rootstock varieties and table grape varieties with extra-early, early, medium, late and very late maturation.

8. Content*/

8.1 Course	Methods of teaching	No. of hours/Remarks
1.Vineyards and viticulture centers in Romania	Videoretroprojector. prelegere / dezbatere,	1 hour

	vorbire liberă însoțită de notarea pe tablă a desenelor, formulelor, schitelor și scheme, retroproiector Prezentarea aspectelor teoretice legate de subiect.	
2.Vineyards and viticulture centers in Romania	Idem	1 hour
3.Vineyards and viticulture centers in Romania	Idem	1 hour
4. Production of grafted cattle. Grafting and forcing of grafted cattle.	Idem	1 hour
5. Driving and binding strings to the vine	Idem	1 hour
6. Green cuttings on vines	Idem	1 hour
7. Plantation systems used in Romanian viticulture	Idem	1 hour
8. Forms of leadership used in Romanian viticulture. Ways of wintering the vine	Idem	1 hour
9.Cutting systems used in viticulture	Idem	1 hour
10.Pruning for fruiting	Idem	1 hour
11.Rejuvenation pruning	Idem	1 hour
12.The physiological basis on which the applied dry pruning of vines	Idem	1 hour
13.Pruning of vines	Idem	1 hour
14.Peculiarities of vine cultivation on sands	Idem	1 hour
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. Ampelographic and ampelometric characters of the vine organs	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. Ampelographic characters of flower and pollen	Projector. Students' contributions are requested during the course on topics specific to the subject.	1 hour

	Topics and interactive discussions will be launched from case studies.	
3. Ampelographic characters of grapes and grains	Idem	1 hour
4. Ampelographic characteristics of the seeds	Idem	1 hour
5. Ampelographic characters of strings	Idem	1 hour
6. The support elements of the hub and the active and fruiting elements of the hub	Idem	1 hour
7. Pruning systems and classification of pruning of vines	Idem	1 hour
8. Cuts formed	Idem	1 hour
9. Pruning for fruiting	Idem	1 hour
10. Correction, regeneration and special cuts	Idem	1 hour
11. Green cuttings on vines. Stitching on the vine.	Idem	1 hour
12. Cutting for relief, burying and digging up the vines	Idem	1 hour
13. Harvesting grapes and establishing the optimal time of harvest	Idem	1 hour
14. Verification of knowledge	Teaching papers and supporting them; Recovery of overdue laboratories	1 hour
8.4 Project		
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 speciala , 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 		

* 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

- 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 **

1.10.2021

S.l.dr.ing. **VIDICAN Iuliana Teodora**

E-mail: iuliateodora68@yahoo.com

S.l.dr.ing. **CĂRBUNAR Mihai Marcel**

E-mail: carbunar@yahoo.com

Date of approval in the department

Prof.univ. dr.ing.

BANDICI Gheorghe Emil

gbandici@yahoo.com

Signature of the Head of Department

Prof.univ. dr.ing.

CHEREJI Ioan

chereji@yahoo.com

** - Name, first name, academic degree and contact details (e-mail, web page, etc) will be specified.

*** - Name, first name, academic degree and contact details (e-mail, web page, etc) of the academic entity beneficiary of the Discipline Outline will be specified.