



Syllabus of the Course:

Academic Year: 2021 – 2022

PRINCIPLES OF HORTICULTURE

Course L.	Prof. as. dr. Nikollaq Roshanji	Lector 2	Prof. as. dr. Nevruz Zeka
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Credits:	5
Discipline:	A
Semester:	II

Total workload	5 x 25 = 125
Class workload:	55
Individual workload:	70

Language:	Albanian
Course Type:	Obligatory
Code:	

Class workload hours		
Type of activity	hours	credits
Lectures:	33	3
Seminars:	8	0.5
Exercises:		
Laboratory:	14	1.5
Fieldwork practice:		
Clinical practice:		
Sportive practice:		
total	55	5

Individual workload hours			
Type of activity	quantity	hour	total
Colloquiums:	3	5	15
Projects:			
Papers:			
Quizzes:			
Discussion:	3	5	15
Others:			
Final exam:	1	40	40
total			70

COURSE REQUIREMENTS	
Contribution of the continuous assessment:	30 points
Contribution of the final exam:	70 points

CONTRIBUTION OF THE CONTINUOUS ASSESSMENT (in point)						
Colloquiums:	Projects:	Papers:	Quizzes:	Discussion:	Participation:	Total
9				15	6	30
Written tests during the term						

CONTRIBUTION OF THE FINAL EXAM (in point)			
Theory:	Exercises and practice:	Others:	Total
50	20		70
End-of-term electronic exam			

PREREQUISITES OF THE COURSE
There is no preliminary conditions

CODE OF ETHICS (In reference to the "Code of Ethics" of the University "Fan S. Noli")

Article 25, point 1/i.

The student who is involved in a prohibited action or violation of the law, which results in the disruption of the lesson, can be asked by the lecturer to leave the auditorium for the remaining period of the lesson. For repeated exlusions, as a result of the disruption of the lesson, written decisions must be taken by the relevant bodies.

Article 26, point 1/h.

Any action taken or situation created, intentionally or by negligence, creating problems for the University.

These actions include but are not limited to:

- i. copying the answers from another student during the exam;
- ii. unauthorized communication with others during an exam;
- iii. allowing another student to copy the answers;
- iv. replacing another person or using another as a substitute during an exam;
- v. pre-programming of a calculator, or other electronic device that hold unauthorized answers or information for the exam;
- vi. use of unauthorized materials, pre-prepared answers, written notes, or information hidden during an exam;
- vii. allowing others to do a task or part of a task (exercise group work), including using the commercial service (purchasing them); submitting the same assignment to more than one course without prior approval of all lecturers involved;
- viii. offering or giving bribes to University staff or those holding management positions;

DESCRIPTION OF COURSE

Object, importance, directions of development regionalization of fruit trees. Morphology of fruit trees. Fruit formations in seeds. Biology of fruit trees, olives and citrus: stages of ontogeny. Life cycle, annual, vegetation and dormancy period in fruit trees. Ecology of fruit trees. climatic and terrestrial factors. Creation of new orchards. Site selection, technical project. Agrotechnics in orchards: Land management in orchards, fertilization and irrigation. Propagation of fruit trees: Reproduction or propagation by seeds and multiplication (vegetative propagation). Pruning of fruit trees .. types of pruning. winter and green pruning. Forms of cultivation.

The role of environmental factors (temperature, light, water, CO₂, nutrients and soil), in the growth and development

LEARNING OUTCOMES OF COURSE

- To know the organs of fruit trees, olives and citrus, their role.
- To know the importance of analyzing ecological factors for their regionalization.
- To know the main methods and techniques of propagation, forms of cultivation of olive and citrus trees.
- Recognize the fruiting qualities of deciduous crops, olive and citrus and know how to maintain proper attitudes with productive pruning.
- To be able to design modern technologies with the aim of obtaining high quality products, sustainable, for a long time, quality and low cost.
- To provide students with a complete scientific information and basic theoretical knowledge of vegetable science, familiarity with environmental requirements, botanical characteristics and biological features of vegetable crops, and contemporary techniques of their cultivation.
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BASIC CONCEPTS OF COURSE

Morphology, trunk, branches, twigs, humps, cords, trichomes, mycorrhiza, shoot, mixed bud, fruit bud, vegetative bud, nursery, grafting, rootstock, overgrowth, pruning, canal cuttings, truncated marjoram, pruning, pruning , evolution, diversity classification environmental factor Modular production biological vegetable family of vegetable plants

REQUIRED TEXTBOOKS

- Cikel leksione. Bazat e Hortikulturës . N Roshanji 2021 Cikel leksionesh “Bazat e Hortikulturës” N. Zeka 2021

RECOMMENDED REFERENCE BOKKS

- Ullishtaria. Fadil Thomaj. Tiranë 2013.
- Krasitja e pemëve frutore dhe hardhisë. Teks mësimor, N Roshanji, 2002.
- Shtimi i pemëve frutore dhe hardhisë Korçë 2006 N.Roshanji
- [1]. Glenda Sallaku, Astrit Balliu. "Perimtaria" Tirane 2017.
- [2]. Thoma Nasto, "Perimtaria", Tirane 2011.
- [3]. Nasto Th. Bardhi N. Bazat e Perimtarise dhe prodhimit te perimeve Tiranë 2004.

CONCLUDING REMARKS FROM THE LECTURER OF THE COURSE

COURSE TEACHING CONTENT IN 15 WEEKS																	
WEEK	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	Total	
Lectures:	3	3	3	3	3	3	3	3	3	3	3					33	
Seminars:				2		2			2		2					8	
Exercises:																	
Laboratory:	2	2	2		2		2	2		2						14	
Fieldwork pr:																	
Clinical pr.:																	
Sportive pr.:																	
																Total	55

WEEK ①		
lectures	3	● OBJECT AND IMPORTANCE OF ORCHARD AND MORPHOLOGY OF FRUIT TREES.
seminars		
exercises		●
laborator	2	● Organography of olive and citrus fruit trees. Fruit formations.
field. pr.		
clinic. pr.		●
sport. pr.		
Literat. 1 Tema 1. Cikël Leksione “Bazat e Hortikulturës”, N. Roshanji 2021.		
Literat. 2 Praktikum i pemtarisë. Prof. as dr N. Roshanji, 2015, f 2-4.		

WEEK ②		
lectures	3	● Biology of fruit trees, olive and citrus.
seminars		
exercises		●
laborator	2	● Planting systems, marker and planting seedlings.
field. pr.		
clinic. pr.		●
sport. pr.		
Literat. 1 Tema 2. Cikël Leksione “Bazat e Hortikulturës”, N. Roshanji 2021.		
Literat. 2 Praktikum i pemtarisë. Prof. as dr N. Roshanji, 2015, f 5-7.		

WEEK ③		
lectures	3	● ECOLOGY AND THE CREATION OF NEW ORCHARD.
seminars		
exercises		●
laborator	2	● Nursery. Its constituent parts. Main grafts with bud and graft.
field. pr.		
clinic. pr.		●
sport. pr.		
Literat. 1 Tema 3. Cikël Leksione “Bazat e Hortikulturës”, N. Roshanji 2021.		
Literat. 2 Praktikum i pemtarisë. Prof. as dr N. Roshanji, 2015, f 7-16.		

WEEK ④		
lectures	3	● AGROTECHNICS IN THE ORCHARD. Multiplication of fruit trees
seminars	2	
exercises		● Object, morphology, biology, ecology and creation of new orchards.
laborator		
field. pr.		●
clinic. pr.		
sport. pr.		●
Literat. 1 Tema 4. Cikël Leksione “Bazat e Hortikulturës”, N. Roshanji 2021.		
Literat. 2 Praktikum i pemtarisë. Prof. as dr N. Roshanji, 2015..		

WEEK ⑤		
lectures	3	● CUTTING FRUIT TREES
seminars		
exercises		●
laborator	2	● Criteria for the formation of the crown skeleton. Practical rules on pruning.
field. pr.		
clinic. pr.		●
sport. pr.		
Literat. 1 Tema 5. Cikël Leksione “Bazat e Hortikulturës”, N. Roshanji 2021.		
Literat. 2 Praktikum i pemtarisë. Prof. as dr N. Roshanji, 2015, .		

WEEK ⑥		
lectures	3	● CUTTING FRUIT TREES.
seminars	2	● Agrotechnics of orchards. Multiplication of fruit trees. Cutting fruit trees
exercises		
laborator		●
field. pr.		
clinic. pr.		●
sport. pr.		
Literat. 1 Tema 5. Cikël Leksione “Bazat e Hortikulturës”, N. Roshanji 2021.		
Literat. 2 Praktikum i pemtarisë. Prof. as dr N. Roshanji, 2015		

WEEK ⑦		
lectures	3	● Object and history of vegetables. Definitions and classifications for fruits and vegetables. Environmental factors and vegetable production. Nutritional and terrestrial needs of vegetables
seminars		●
exercises		
laborator	2	● Hot beds
field. pr.		
clinic. pr.		●
sport. pr.		
Literat. 1 Cikël leksionesh “Bazat e Hortikulturës” N. Zeka 2021		
Literat. 2 Glenda Sallaku, Astrit Balliu. "Perimtaria" Tirane 2017.Thoma Nasto, "Perimtaria", Tirane 2011.		

WEEK ⑧		
lectures	3	● Features, distribution and forms of vegetables in our country. Accompanying, intercalary cultivation and turnover in vegetables. Propagation of vegetable crops. Modular production of vegetable seedlings
seminars		●
exercises		
laborator	2	● Prepare cold seedlings and sow seeds in them. Ways of planting vegetables in the permanent place.
field. pr.		
clinic. pr.		●
sport. pr.		
Literat. 1 Cikël leksionesh “Bazat e Hortikulturës” N. Zeka 2021		
Literat. 2 Glenda Sallaku, Astrit Balliu. "Perimtaria" Tirane 2017.Thoma Nasto, "Perimtaria", Tirane 2011.		

WEEK ⑨		
lectures	3	<ul style="list-style-type: none"> ● Vegetables of the Solanaceae, and Cucurbitaceae and liliacea family , biology and cultivation
seminars	2	
exercises		
laborator		
field. pr.		
clinic. pr.		
sport. pr.		
Literat. 1		Cikël leksionesh “Bazat e Hortikulturës” N. Zeka 2021
Literat. 2		Glenda Sallaku, Astrit Balliu. "Perimtaria" Tirane 2017. Thoma Nasto, "Perimtaria", Tirane 2011.

WEEK ⑩		
lectures	3	<ul style="list-style-type: none"> ● Vegetables of the Cruciferae, Leguminozaceae, Chenopodiaceae family, biology and cultivation
seminars		
exercises		
laborator	2	
field. pr.		
clinic. pr.		
sport. pr.		
Literat. 1		Cikël leksionesh “Bazat e Hortikulturës” N. Zeka 2021
Literat. 2		Glenda Sallaku, Astrit Balliu. "Perimtaria" Tirane 2017. Thoma Nasto, "Perimtaria", Tirane 2011.

WEEK ⑪		
lectures	3	<ul style="list-style-type: none"> ● Vegetables of the Compositae, Umbeliferae and Malvace family. Cultivated mushrooms, biology and cultivation
seminars	2	
exercises		
laborator		
field. pr.		
clinic. pr.		
sport. pr.		
Literat. 1		Cikël leksionesh “Bazat e Hortikulturës” N. Zeka 2021
Literat. 2		Glenda Sallaku, Astrit Balliu. "Perimtaria" Tirane 2017. Thoma Nasto, "Perimtaria", Tirane 2011.

WEEK ⑫		
lectures		<ul style="list-style-type: none"> ●
seminars		
exercises		
laborator		
field. pr.		
clinic. pr.		
sport. pr.		
Literat. 1		
Literat. 2		

WEEK 13		
lectures	•	
seminars		
exercises	•	
laborator		
field. pr.	•	
clinic. pr.		
sport. pr.	•	
Literat. 1		
Literat. 2		

WEEK 14		
lectures	•	
seminars		
exercises	•	
laborator		
field. pr.	•	
clinic. pr.		
sport. pr.	•	
Literat. 1		
Literat. 2		

WEEK 15		
lectures	•	
seminars		
exercises	•	
laborator		
field. pr.	•	
clinic. pr.		
sport. pr.	•	
Literat. 1		
Literat. 2		

Course L.	Prof. as. dr. Nikollaq Roshanji	Lector 2.	Prof. as. dr. Nevruz Zeka

Head of the Agribusiness Department: Dr. Ilir Sosoli