

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Agricultural ecology				
Head of course Lecturer	PhD Melita Zec Vojinović, Senior Lecturer PhD Vesna Kovačević, College Professor				
Study programme	Professional undergraduate study Mediterranean Agriculture				
Status of a course	Obligatory				
Year of study	1	Semester	I	ECTS credits	5
Teaching plan (L + E + S+ Pr)	(3+0+0+0)				
Goals of a course					
Introduce students to basic ecological concepts, ecosystem functioning, ecosphere and human impact on parts of the ecosphere. Introduce students to the ecological challenges of today and the basic guidelines for sustainable development, sustainable and organic agriculture.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
<p>Outcome 2: Recommend the production technology for vegetables and medicinal plants outdoors and in protected areas according to the requirements of a certain species, and evaluate the quality of vegetables and aromatic herbs on the basis of internal and external quality.</p> <p>Outcome 3: Prepare a plan for the cultivation of Mediterranean crops, including economic and cultivation elements.</p> <p>Outcome 5: Design irrigation models based on water balance and apply classic and special irrigation models.</p> <p>Outcome 6: Determine economically significant pests and implement preventative and curative methods of plant protection with respect to the production system.</p> <p>Outcome 7: Recommend manners of breeding and processing indigenous breeds of domestic animals in order to increase the profitability of family farms.</p>					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Comment on basic ecological concepts, functioning and state of the ecosystem. 2. Assess the consequences of anthropological activities on the ecosphere and its parts. 3. Analyse agricultural production systems based on ecological concepts and principles 4. Choose appropriate crops for ecological cultivation in the Mediterranean biome 5. Apply environmentally friendly protection measures for agricultural production systems of Mediterranean crops 					
Content of a course					
Ecology as interdisciplinary science. Basic ecological terms. Matter cycles and energy flows in ecosystem. Food chains. Ecosphere and its components. Man's impact on environment. World biomes. Biodiversity and agents of its reduction. Sustainable growth and ecological efficiency. Abiotic and biotic interacting components. Biological tolerance. Agrosphere. Critical points of agrosphere. Organic agriculture. Agroecological indicators. IFOAM. Ecological agents of pest control. Chemicals for plant protection allowed in EU organic agriculture. Mediterranean biome and its transformation in agrosystem. Critical points of Mediterranean biome. Ecology of main Mediterranean fruit-trees. Autochthonous and allochthonous Mediterranean vegetables and their ecology. Mediterranean spice plants.					
Teaching modes	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> auditory exercises <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> distance learning <input type="checkbox"/> field classes		<input checked="" type="checkbox"/> individual assignments <input type="checkbox"/> multimedia and network <input type="checkbox"/> laboratory <input type="checkbox"/> supervisor's work <input type="checkbox"/> other _____		
Comments					

Students' obligations

Required class attendance. Students must have a notebook of completed activities (assignment, homework) that are reviewed and scored.

Grading, evaluation and monitoring of students' work continuously during lectures and exams

Grading is based upon evaluation of course's learning outcomes' adoption. Grading is performed continuously during lectures and/or during exam, in compliance with the provisions of Regulation on the assessment of students.

Continuous check-up:

Outcomes	Pre-exam I	Assignment	Presentation	Home assignment	Threshold	Max
Outcome 1	18	4	10		16	32
Outcome 2	18	2	10		15	30
Outcome 3		16			8	16
Outcome 4		2	10		6	12
Outcome 5				10	5	10
Percentage of ECTS	2	1	1,5	0,5		
Total	36	24	30	10	50	100

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Exam term:

Outcomes	Written exam	Oral exam	Max
Outcome 1	26	6	32
Outcome 2	24	6	30
Outcome 3	12	4	16
Outcome 4	10	2	12
Outcome 5	8	2	10
Percentage of ECTS	4	1	
Total	80 %	20 %	100 %

A student has passed the exam if he has acquired a percentage of credits for each learning outcome higher or equal to defined threshold.

Grading:

A student has passed the exam if he has acquired at least 50% of anticipated credits of a specific learning outcome.

If a student has passed learning outcomes of all courses, the accomplished credits (percentages) of all passed learning outcomes are being added, while the final grade is defined upon following table:

Range of credits (percentages)	Numerical grade	ECTS grade
90,00 – 100,00	Excellent (5)	A
75,00 – 89,99	Very good(4)	B
60,00 – 74,99	Good(3)	C
50,00 – 59,99	Sufficient (2)	D
0,00 – 49,99	Insufficient (1)	F

Obligatory literature

1. Fanuko, N. 2006. EKOLOGIJA. Udžbenik za stručne studije vinarstva i mediteranske poljoprivrede. Veleučilište u Rijeci. Poreč – Rijeka

Additional literature
<ol style="list-style-type: none">1. Glavač, V., 2001. Uvod u globalnu ekologiju. Hrvatska sveučilišna naklada. Zagreb.2. Kisić, I., 2014. Uvod u ekološku poljoprivredu, sveučilišni udžbenik, Sveučilište u Zagrebu Agronomski fakultet, Zagreb3. Znaor, D., 1996. Ekološka poljoprivreda, Nakladni zavod Globus. Zagreb.4. Igrc Barčić, J., M. Maceljiski, 2001. Ekološki prihvatljiva zaštita bilja od štetnika. Zrinski. Čakovec

