

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Basics of soil cultivation				
Head of course	PhD Ivana Dminić Rojnić, Senior Lecturer				
Study programme	Professional undergraduate study Mediterranean Agriculture				
Status of a course	Obligatory				
Year of study	1	Semester	I	ECTS credits	6
Teaching plan (L + E + S+ Pr)	3+0+2+0				
Goals of a course					
Through this course, students will gain basic knowledge of the importance of plant cultivation, plant breeding procedures and of methods and procedures in the selection and breeding process that will enable students to better understand professional courses in the next semesters					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
<p>Outcome 1: Assess the quality of planting material and produce planting material by the appropriate propagation method.</p> <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 4: Perform the care of perennial plantations of Mediterranean crops in accordance with the cultivation form and maintain them in view of the technological and ecological conditions of production.</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 12: Prepare business process organization plan in agricultural production at family run farms.</p>					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> Determine the importance of plant cultivation. Determine and classify soil fertility components. Determine and recommend plant cultivation operations. Recommend and develop models for Mediterranean crops cultivation. Select appropriate methods and procedures in the process of plant selection and breeding. 					
Content of a course					
Introduction. Characteristics of plant growing. Agricultural production areas – agro-sphere. Ecological factors of plant growing. Climate - atmospheric phytoecological factors. Agricultural soil - edaphic phytoecological factors. Physical components of soil fertility. Chemical components of soil fertility. Soil as natural resource in plant growing. Soil cultivation zoning in Croatia and agroecological zones. Plant growing interventions. Tillage. Soil fertilisation. Corrections of acid and alkali soils. Damages and protection of soil. Cultivated plant. Biology of cultivated plants. Seeding. Care of crops. Yield as growing aim. Systems of soil cultivation in Mediterranean region. Alternative agriculture in Mediterranean region (ecological systems of plant growing).					
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

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	Pre-exam 2	Pre-exam 3	Assignment	Threshold	Max
Outcome 1	10			10	10	20
Outcome 2	10				5	10
Outcome 3		20		10	15	30
Outcome 4		10		10	10	20
Outcome 5			14	6	10	20
Percentage of ECTS	1	2	1	2		
Total	20	30	14	36	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	18	2	20
Outcome 2	8	2	10
Outcome 3	25	5	30
Outcome 4	15	5	20
Outcome 5	18	2	20
Percentage of ECTS			
Total	84%	16%	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. Butorac, A.: Opća agronomija. Izabrana poglavlja, Školska knjiga, Zagreb,1999.
2. Butorac, A.: Opća proizvodnja bilja. Izabrana poglavlja, Agronomski fakultet, Zagreb, 1992.
3. Mihalić, V.: Opća proizvodnja bilja. Izabrana poglavlja, Školska knjiga, Zagreb,1988.
4. Butorac, A.: Opća proizvodnja bilja, praktikum, Zagreb, 1982.

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| 5. Martinčić, J. i Kozumplik, V.: Oplemenjivanje bilja. Poljoprivredni fakultet Osijek i Agronomski fakultet Zagreb. 1996. |
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Additional literature

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| <ol style="list-style-type: none">1. Znaor, D.: Ekološka poljoprivreda, Globus, Zagreb, 1996.2. Kozumplik, V. i Pejić, I. (ured.): Oplemenjivanje poljoprivrednog bilja u Hrvatskoj. Agronomski fakultet. Zagreb 2012. |
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