

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Agricultural Botany				
Head of course	PhD Vesna Kovačević, College Professor				
Study programme	Professional undergraduate study Sustainable Agritourism				
Status of a course	Obligatory				
Year of study	1.	Semester	I	ECTS credits	4
Teaching plan (L + E + S+ Pr)	2+2+0+0				
Goals of a course					
To acquaint students with the structure and functions of the plant organism, the propagation, growth and development of plants, the characteristics of individual groups of plants.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
<p>Outcome 1: Explain the basic principles of chemistry, biochemistry, microbiology and botany required to work in the field of agriculture.</p> <p>Outcome 2: Assess the suitability of environmental and edaphic factors for sustainable plant and animal production.</p> <p>Outcome 3: Select species, assortments and breeds, as well as the technology for cultivation, breeding and maintaining the health of plants and animals.</p> <p>Outcome 5: Select the methods of processing and preserving raw materials of plant and animal origin, depending on the quality characteristics of the raw material and the application of microorganisms.</p>					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Substantiate the importance of the cell as the basic building and functional unit of life 2. Distinguish plant tissues and organs, and their role in plant life 3. Assess the importance of water, photosynthesis and cellular respiration, as well as the mechanisms by which plants respond to stressful conditions 4. Explain the processes related to the development and life cycle of plants 5. Compare the differences between vegetative and generative plant propagation 6. Show the structure and main features of individual groups of plants, and identify wild and cultivated species 					
Content of a course					
Introduction into botany. Structure and function of a plant cell. Structure and function of vegetative organs of angiosperms Transport of water and assimilates through the plant. Photosynthesis. Cell breathing. Structure and function of generative organs of angiosperms. Pollination and fertilization. Growth and development of plants. Generative and vegetative plant propagation. Systematic division of plants and basic characteristics of certain groups of plants. Weed classification and their significance and harmfulness in agricultural areas.					
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 attendance at exercises. Students must have a notebook of completed activities (individual assignments and exercises) 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	Pre-exam 2	Activity	Assignment	Threshold	Max
Outcome 1	5		1	4	5	10
Outcome 2	10	10	2	8	15	30
Outcome 3	10			2	6	12
Outcome 4	10				5	10
Outcome 5	9		1		5	10
Outcome 6	6	8	8	6	14	28
Percentage of ECTS	1,5	1	0,5	1		
Total	50	18	12	20	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	8 %	2 %	10
Outcome 2	24%	6%	30
Outcome 3	10 %	2 %	12
Outcome 4	8%	2%	10
Outcome 5	8 %	2 %	10
Outcome 6	22 %	6 %	28
Percentage of ECTS	3	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. Dubravec, K., 1996: BOTANIKA. Sveučilište u Zagrebu. Agronomski Fakultet.
2. Hulina, N. 1998. Korovi. Školska knjiga, Zagreb.
3. Dubravec, K. i Dubravec, I., 1998: Kultivirane biljne vrste Hrvatske i susjednih područja. Školska knjiga, Zagreb.
4. Dubravec, K. D. i Regula, I. 1995. Fiziologija bilja. Školska knjiga, Zagreb.

Additional literature

1. Nikolić, T., 2017: Morfologija biljaka. Alfa, Zagreb

2. Pevalek – Kozlina B. Fiziologija bilja. Profil, Zagreb
3. Dubravec, K. i Šegulja, N. 2005: Korovi obradivih površina Istre. Veleučilište u Rijeci, Poreč.

