

### DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	Aromatic and medicinal plants				
<b>Head of course</b>	PhD Slavica Dudaš, Senior Lecturer				
<b>Study programme</b>	Professional undergraduate study Mediterranean Agriculture				
<b>Status of a course</b>	Elective				
<b>Year of study</b>	3.	<b>Semester</b>	VI	<b>ECTS credits</b>	4
<b>Teaching plan (L + E + S+ Pr)</b>	2+1+0+0				
<b>Goals of a course</b>					
To acquaint students with the importance and possibilities of sustainable cultivation of aromatic and medicinal plants, concept and quality standards, types and characteristics of bioactive substances, basic methods of processing and application of aromatic and medicinal plants. To introduce students to the technology of cultivation of basic types of aromatic and medicinal plants. Introduce students to the possibilities of producing flavoured wines and spirits.					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
<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>					
<b>Expected learning outcomes on a level of a course</b>					
<ol style="list-style-type: none"> <li>1. Recognize types of aromatic and medicinal plants, Latin names, belonging to a family of bioactive substance of selected types of aromatic and medicinal plants.</li> <li>2. Select the conditions for planting and growing technology of selected species and assortments of aromatic and medicinal plants</li> <li>3. Recommend the method of processing and application of selected types of aromatic and medicinal plants depending on the characteristics.</li> <li>4. Perform bioactive substances extraction by steam extraction.</li> <li>5. Evaluate the quality of aromatic and medicinal plant raw material based on its characteristics and content of bioactive substances.</li> </ol>					
<b>Content of a course</b>					
Aromatic and medicinal plants through history. Medicinal vegetable matters and their effects. Collecting and drying of plants. Preparation and ways of using. Description of plants and their characteristics.					
<b>Teaching modes</b>	<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 _____		
<b>Comments</b>					

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	Laboratory Exercise (Distillation)	Test	Threshold	Max
Outcome 1				15	7,5 %	15 %
Outcome 2		35			17,5%	35%
Outcome 3	20				10%	20%
Outcome 4			10		5%	10%
Outcome 5	20				10%	20 %
Percentage of ECTS	1,5	1,0	0,6	0,9		
Total	40%	35%	10%	15%	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		15	15 %
Outcome 2	35		35 %
Outcome 3	20		20 %
Outcome 4	10	10	10 %
Outcome 5	20		20 %
Percentage of ECTS	3,5	1,5	
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
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| 1. Internal teaching materials |
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Additional literature
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1. Šilješ et al., 1992: Poznavanje, uzgoj i prerada ljekovitog bilja. Školska knjiga Zagreb, ISBN 86-03-00663-6 Keršek, E. 2006: Ljekovito bilje u vinu i rakiji. Vbz. Zagreb, ISBN: 953-201-385-7



