

### DESCRIPTION OF A STUDY COURSE – SYLLABUS

<b>Title of a course</b>	Vine growing III				
<b>Head of course</b>	PhD Marijan Bubola, Senior Lecturer				
<b>Study programme</b>	Professional undergraduate study Winemaking				
<b>Status of a course</b>	Obligatory				
<b>Year of study</b>	2.	<b>Semester</b>	III	<b>ECTS credits</b>	6
<b>Teaching plan (L + E + S+ Pr)</b>	2 + 1 + 0 + 1				
<b>Goals of a course</b>					
The objectives of the course are to provide students with the necessary knowledge and experience for the organization and implementation of the activities that are carried out for the purpose of raising the vineyard with regard to the characteristics of the plot for planting and the desired type of vineyard production, to select suitable elements of the backing in the vineyard, to design a system of growing vine in ripe and green, for the selection of suitable vineyards with regard to the ecological conditions of cultivation and the desired type of viticulture and for the implementation of grapevine cultivation by hybridization and methods of mass, clonal and sanitary selection.					
<b>Conditions for enrolling course</b>					
No conditions					
<b>Learning outcomes on a level of a study programme which includes course</b>					
Outcome 1: Plan the planting of vineyards with regard to the ecological and agro-climate conditions of the production unit. Outcome 2: Interpret soil analysis results and optimize pedological soil properties. Outcome 3: Perform the care of the grapevine plantations in accordance with the cultivation form and maintain the vineyard in view of the technological and ecological conditions of production.					
<b>Expected learning outcomes on a level of a course</b>					
<ol style="list-style-type: none"> <li>Design vineyard raising and determine the steps to be taken during vineyard cultivation with regard to the characteristics of the plot for planting and the desired type of viticulture production.</li> <li>Select suitable support elements for the purpose of raising a vineyard and calculate the amount of required support elements.</li> <li>Design (growing) grapevine cultivation systems by winter and summer pruning and describe their characteristics.</li> <li>Describe the characteristics of various substrates for grapevine and select the appropriate grapevine substrate with regard to the ecological conditions of cultivation and the desired type of viticulture production.</li> <li>Describe the manners of grapevine breeding by hybridization and methods of mass, clonal and sanitary selection.</li> </ol>					
<b>Content of a course</b>					
Agro-ecological conditions of viticulture. Warmth. Rain. Light. Winds. Starting vine plantations. Arranging production area. Improving physical, chemical and biological features of soil. Preparing surface for planting vineyard. Other preparatory activities before planting. Planting vine roots and shoots. Care of young vineyard. Systems of vine growing. Elements and names of growing. Growing models and basic features. Complex growing systems. Renewal and changes of growing system. Supports in vineyard. Wooden posts and poles. Stanchions made of other materials. Wire in vineyard. Other materials used for supporting, binding of tree, branching and sprouts.					
<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	Assignment	Seminar work	Threshold	Max
Outcome 1	25	5		15	30
Outcome 2	5		15	10	20
Outcome 3	15	5		10	20
Outcome 4	15			7,5	15
Outcome 5	15			7,5	15
Percentage of ECTS	4,5	0,5	1	-	-
Total	75	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	Threshold	Max
Outcome 1	24	6	15	30
Outcome 2	16	4	10	20
Outcome 3	16	4	10	20
Outcome 4	12	3	7,5	15
Outcome 5	12	3	7,5	15
Percentage of ECTS	5	1	-	-
Total	80	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.

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. Mirošević, N., Karoglan Kontić, J. (2008) Vinogradarstvo. Nakladni zavod Globus, Zagreb

2. Maletić, E., Karoglan Kontić, J., Pejić, I. (2008) Vinova loza – Ampelografija, ekologija, oplemenjivanje. Školska knjiga, Zagreb

3. Mirošević, N., Turković, Z. (2003) Ampelografski atlas. Golden marketing - Tehnička knjiga, Zagreb

Additional literature

1. Keller, M. (2015) The Science of Grapevines - Anatomy and Physiology. Academic Press, London, UK.

2. Fregoni, M., (2006) Viticoltura di qualità. Tecniche nuove, Milano, Italia

3. Jackson, R.S. (2008) *Wine Science*. Academic Press, New York, USA

