

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Wine growing IV				
Head of course	PhD Marijan Bubola, Senior Lecturer				
Study programme	Professional undergraduate study Winemaking				
Status of a course	Obligatory				
Year of study	2.	Semester	IV	ECTS credits	7
Teaching plan (L + E + S+ Pr)	2+2+0+3				
Goals of a course					
Acquiring knowledge and skills necessary to interpret and identify changes occurring in the berry during ripening and to determine the appropriate harvesting term and method; irrigation water, determining the appropriate way of maintaining soil in the vineyard, organizing nursery production of grapevines, identifying the damage to the vine caused by abiotic and biotic factors and implementing measures to mitigate the negative effects of these damage and to familiarize yourself with the specificities of table grape cultivation.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
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.					
Expected learning outcomes on a level of a course					
<ol style="list-style-type: none"> 1. Interpret the changes that occur in the berry during ripening and determine the appropriate date and method of harvesting. 2. Analyse the results of soil analysis and water balance data, and determine the required quantities of mineral and organic fertilizers for vineyard fertilization, the required amounts of water for irrigation, and the manner of soil maintenance in vineyards. 3. Organize nursery production of grapevine grafts. 4. Identify grapevine damages caused by abiotic and biotic factors and implement measures to mitigate the negative effects of the damage. 5. Select and describe specific cultivation technologies for the production of table grapes. 					
Content of a course					
Analysis of vintage in the previous vegetative year. Fertilization of grape vine. Vine's needs for nutrients and their usage. Fertilization of vineyard. Types of composts and ways of their application. Macro and microelements of fertilizing grape vine. Plant-housing. Ecologically-sustainable vine growing. System of soil maintenance. Tillage. Soil grassing. Soil mulching in vineyard. Application of herbicides. Combined systems of soil maintenance. Commonest weeds in vineyard. Vine damages caused by abiotic and biotic factors. Damages caused by high and low temperatures, hail, protection agents. Other damages.					
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	Assignment	Seminar work	Threshold	Max
Outcome 1	15			7,5	15
Outcome 2	25	10		17,5	35
Outcome 3	15			7,5	15
Outcome 4	10		15	12,5	25
Outcome 5	10			5	10
Percentage of ECTS	5	1	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	12	3	7,5	15
Outcome 2	28	7	17,5	35
Outcome 3	12	3	7,5	15
Outcome 4	20	5	12,5	25
Outcome 5	8	2	5	10
Percentage of ECTS	5,5	1,5	-	-
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

Additional literature

1. Mirošević, N. (2007) Razmnožavanje loze i lozno rasadničarstvo. Golden marketing - Tehnička knjiga, Zagreb
2. Keller, M. (2015) The Science of Grapevines - Anatomy and Physiology. Academic Press, London, UK
3. Fregoni, M., (2006) Viticoltura di qualità. Tecniche nuove, Milano, Italia
4. Jackson, R.S. (2008) Wine Science. Academic Press, New York, USA

