

DESCRIPTION OF A STUDY COURSE – SYLLABUS

Title of a course	Growing of vegetables				
Head of course	PhD Slavica Dudaš, Senior Lecturer				
Study programme	Professional undergraduate study Mediterranean Agriculture				
Status of a course	Obligatory				
Year of study	2.	Semester	IV	ECTS credits	5
Teaching plan (L + E + S+ Pr)	3+2+0+1				
Goals of a course					
To acquaint students with the importance and possibilities of sustainable vegetable cultivation, species, affiliations with botanical families, concept of crop rotation, quality, types and characteristics of bioactive substances, propagation technologies, use of phytohormones, production of transplant, cultivation technology and planting of basic and perennial vegetable species. Introduce students to the factors of fructification, conditions for the transition to the generative phase. Introduce students to the possibilities of processing, storing and storing vegetables.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 1: Assess the quality of planting material and produce planting material by the appropriate propagation method.					
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.					
Outcome 3: Prepare a plan for the cultivation of Mediterranean crops, including economic and cultivation elements.					
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.					
Outcome 5: Design irrigation models based on water balance and apply classic and special irrigation models.					
Outcome 6: Determine economically significant pests and implement preventative and curative methods of plant protection with respect to the production system.					
Expected learning outcomes on a level of a course					
1. Identify types of vegetables, Latin names, family affiliation, and seeds of selected vegetable species, factors of fructification.					
2. Assess the quality and health and nutritional value of vegetables based on their characteristics.					
3. Plan crop rotation in vegetable growing.					
4. Select the conditions and technologies for the production of seedlings, the use of phytohormones, the cultivation and care of selected species and assortments.					
5. Interpret the manner of keeping and storing vegetables.					
Content of a course					
Importance and position of vegetable growing in agriculture. Improvement possibilities of vegetable production in Croatian agriculture. Requirements needed for setting up economy of vegetable growing. Vegetables and nourishment. Parting of vegetables. Propagation of vegetable crops. Factors of fructification. Deciding on technological ripening of vegetables. Influences of outdoor vegetative factors on growing of vegetable crops. Phytohormones and growth inhibitors in vegetable growing. Characteristics of soil for vegetable-growing and tillage practices. Soil as substrate in vegetable production. Use of soil analysis in determining doses of fertilizers. Dressing and fertilizers. Systems of plant production in vegetable growing. Basics of vegetable protection. Picking, packing and transportation of vegetables. Protected areas. Irrigation of vegetable crops. Technical procedures of seeding, planting and picking vegetable crops. Growing of vegetable varieties according to basics of botany, biochemistry, physiology, feeding, general production and plant protection.					

Teaching modes	<input checked="" type="checkbox"/> lectures	<input checked="" type="checkbox"/> individual assignments
	<input type="checkbox"/> auditory exercises	<input type="checkbox"/> multimedia and network
	<input checked="" type="checkbox"/> seminars and workshops	<input type="checkbox"/> laboratory
	<input type="checkbox"/> distance learning	<input type="checkbox"/> supervisor's work
	<input type="checkbox"/> field classes	<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	Test	Presentation	Threshold	Max
Outcome 1	10		20		10 %	30 %
Outcome 2	15				7,5%	15%
Outcome 3			15		7,5%	15%
Outcome 4		20		10	15%	30%
Outcome 5		10			5%	10 %
Percentage of ECTS	1	1,5	2	0,5		
Total	25%	30%	35%	10 %	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	20	10	30 %
Outcome 2	8	7	15 %
Outcome 3	10	5	15 %
Outcome 4	30		30 %
Outcome 5	10		10 %
Percentage of ECTS	3,5	1,5	
Total	78 %	22 %	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. Internal teaching materials
Additional literature
1. Lešić et al., 2004.: Povrčarstvo, Zrinski, Zagreb, ISBN 953-155-082-4
2. Matotan, Z. 2004.: Suvremena proizvodnja povrća, Globus, Zagreb, ISBN 953-167-165-6
3. Maceljski M. i sur., 2004.: Štetočine povrća. Zrinski, Čakovec

