

Study programme: Fruit growing and viticulture				
Type and level of study: Bachelor's degree (240 ECTS) – First cycle				
Course title: Designing and establishment of fruit orchards				
Lecturer: Assoc. Prof. Ivan Glišić, PhD, Radmila Ilic				
Language of instruction: English				
ECTS credits: 5				
Prerequisite: -				
Semester: <i>summer</i>				
Course objective To acquaint students with all the elements of designing and planting orchard of apple, stone, stone and strawberry fruit species.				
Learning outcomes The initial knowledge of students acquired in this scientific discipline will enable them to successfully choose a location for raising plantations, then to analyze all the external and internal conditions that affect the raising of orchards, and finally to create a complete project for raising fruit plantations in a given location.				
Course contents				
<i>Theoretical instruction.</i> Selection and description of the location for raising plantations (assessment of the suitability of climatic, soil, orographic, economic and other conditions); Development of a planting plan; Defining the cultivation system (planting distance, cultivation form); Organization of the plot (direction of rows, road infrastructure, auxiliary facilities on the plot...); Preparation of land for raising orchards; Theoretical foundations of planting; Building the supporting infrastructure of modern plantings (support, irrigation system, anti-hail net, frost protection system...).				
<i>Practical instruction.</i> Elaboration of Elaborate: "Orchard raising project at a given location". Positioning of the location (geographical coordinates, altitude, slope of the terrain...); Comparing a copy of the plot plan with the real situation on the ground; Sizing the plot and setting the direction of the rows, marking the place for planting; Development of an action plan for raising plantations; Economic and financial analysis of raising plantations (expenditure of materials and resources for work; calculations of the work of workers and the work of machines).				
Recommended reading				
Petrović, S., Milošević, T. (2005): Raspberry from Serbia. Faculty of Agronomy, Čačak, p. 256 (ISBN 86-84383-40-0, COBISS.SR-ID=124030732).				
Kousar J., Qureshi SN, Lubna M., Sharma P., Nasreen F. and Ishrat S. (2017): Orchard designing in fruit crops. Journal of Pharmacognosy and Phytochemistry, 6(4): 1081-1091				
Usha K., Thakre M, Kumar A., Goswami and Nayan Deepak, G (2015): Fundamental of Fruit production. Division of Fruits and Horticultural Technology, Indian Agricultural Research Institute, New Delhi.				
Hours of active teaching				
Lectures:	Practicals: 2x15=30	Other forms of teaching Tutorials 3x15=45	Individual work:	Other classes
Teaching is conducted in two ways: a) theoretical teaching (lectures) and b) practical teaching (exercises).				
Assessment (maximum points 100)				
Examination requirements	Points	Final examination	Points	
Class participation	20	oral examination		
Practical sessions/tests	30	written examination	50	
Term paper assignments/homework			
Grading system				
Grade	ECTS	Description		
10	91-100	Excellent		
9	81-90	Exceptionally good		
8	71-80	Very good		
7	61-70	Good		
6	51-60	Passing		
5	≤50	Failing		