

Title of a course	Fruit Growing				
Study programme	Undergraduate Professional Study Programme of Sustainable Agritourism				
Status of a course	Obligatory				
Year of study	1	Semester	II	ECTS credits	5
Goals of a course					
Enabling students to independently raise and manage orchards, to select a fruit species in accordance with the chosen locality for planting and current market conditions, and to choose the right method of cultivation and measures in the cultivation of fruit while respecting sustainable development.					
Conditions for enrolling course					
No conditions					
Learning outcomes on a level of a study programme which includes course					
Outcome 2: Assess the suitability of environmental and edaphic factors for sustainable plant and animal production. Outcome 3: Select species, assortments and breeds, as well as the technology for cultivation, breeding and maintaining the health of plants and animals. Outcome 4: Recommend the manner of processing, sorting and storage of plant and animal products stock and distribution of goods. Outcome 5: Select the methods of processing and preserving raw materials of plant and animal origin, depending on the quality characteristics of the raw material and the application of microorganisms. Outcome 6: Apply the principles of spatial planning and design the interior and exterior according to the needs and capabilities of the agritourism farm and the location conditions. Outcome 7: Recommend environmentally friendly methods of hygiene, maintenance and waste management in agriculture, tourism and catering.					
Expected learning outcomes on a level of a course					
1. Analyse the status and tendency of fruit production by species in the world and Croatia. 2. Plan optimal pomotechnical measures for maximum yield in fruit production 3. Identify the manners of fruit propagation and production of planting material 4. Develop a plan for raising fruit plantations depending on the species, climate and pedological conditions, and distinguish between pomotechnical measures in fruit growing. 5. Recommend optimal harvesting time and storage methods for different types of fruit. 6. Determine optimal growing conditions for different fruit species.					
Content of a course					
Students are familiarized with the structure of fruit and function of certain organs. Blossom, pollination, fertilization, propagation, pruning and training systems. The effect of agroecological conditions on cultivating certain fruit species and varieties. Emphasize the necessity to conform to certain measures in orchard: in-row cultivation, nutrition, fertilization techniques, irrigation, pest management, harvesting and storage, processing and product placement. The following fruit varieties of the Mediterranean will be covered as well: fig, tangerine, kiwi, lemon, orange, pomegranate and hazel. Also, the following Mediterranean varieties will be covered: persimmon, carob, peach, nectarine, almond, loquat, sour cherry, cherry and jujube. Aside from that, other important fruit varieties will be covered, such as: strawberry, plum, quince, tangerine, apple, pear and others. For every fruit species, origin, dispersion, production area, surface and yield will be addressed. Practical part of classes from the area of propagation, irrigation, pruning and harvesting will be carried out in teaching-technology bases.					