

Title of a course	Vegetable 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					
Introduce students to the importance and possibilities of sustainable vegetable cultivation, species, affiliations to botanical families, the concept of crop rotation, quality, types and characteristics of bioactive substances, propagation technologies, use of phytohormones, transplant production, cultivation and nursery planting of basic and perennial types of vegetables. 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 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.					
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, health and nutritional value of vegetables based on their characteristics. 3. Plan crop rotation in vegetable growing. 4. Select the conditions and technologies for sowing, 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					
The significance and place of vegetable growing and production in agriculture of the Republic of Croatia. Possibilities of improving vegetable production and conditions for establishing a vegetable estate. The role of vegetables in nutrition. Nutritional and health value of vegetables, bioactive matter content and antioxidant capacity. Vegetable classification and type of propagation of vegetable varieties, varieties and the application of phytohormones. Fructification factors. Determining technological maturation of vegetables. Planning crop rotation. The impact of external vegetative factors on cultivation of vegetable cultures. Characteristics of soil for cultivation of vegetables and soil cultivation. Soil as substrate in vegetable production. A sowing technique, planting, the use of a sowing calendar. Cultivation of transplants, nutrition of vegetables and fertilization. Systems of plant production. Treatment measures for vegetable plantation. Harvesting, treatment, sorting, packing, storage and transport of vegetables. Cultivation technology of vegetable varieties in the open field and in greenhouses based on basics of botany, biochemistry, physiology, nutrition, general production and plant protection.					