

Course Unit Descriptor

Study Programme: Crop science			
Course Unit Title: Vegetable production in greenhouses			
Course Unit Code: 19.RIP019			
Name of Lecturer(s): Žako Ilin			
Type and Level of Studies: Undergraduate studies			
Course Status (compulsory/elective): Compulsory			
Semester (winter/summer): Winter			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face/distance learning			
Number of ECTS Allocated: 5			
Prerequisites: Plant physiology			
Course Aims: The aim of the course is to emphasize the biological, agro-technical and economic importance of production, placement and consumption of vegetables throughout the year. The goal is to train the students for application of the modern technologies in production of vegetables in greenhouses.			
Learning Outcomes: Students will learn about the technology of production, harvesting, calibration and distribution of major vegetable crops in vegetable production in various forms and types of greenhouse.			
Syllabus: <u>Theory:</u> Theoretical education includes choice of location for raising and organization of the protected area, control the microclimate conditions, choice of land, organic and inorganic substrates for growing in greenhouses, general principles and specific features of hydroponic cultivation of vegetables, general, special and specific agro-technical practices, seedling production technology. In a special part are processed the most important species from the group fruiting vegetables, leafy vegetables, brassicas, root-tubers vegetables, bulb vegetables and legumes. <u>Practice:</u> Exercise, other methods of teaching, study research work Introduction with structures and types of protected areas, covering materials, biological and morphological characteristics of vegetable seeds, sowing and planting of vegetable crops, computer controls of microclimate conditions and feeding vegetables			
Required Reading: Howard, M.R. (2004). Hydroponic food production. Newconcept Pres, Inc., Mahwah, New Jersey Baudoin ,W. (2017). Good agriculture practices for greenhouse vegetable production in the South East European countries. FAO Baudoin ,W. (2017). ЭМСП тепличных овощных культур в странах ЮгоВосточной Европы. ФАО			
Weekly Contact Hours: 6	Lectures: 4		Practical work: 2
Teaching Methods: Lectures, Practice/ Practical classes, Consultations, study, research work			
Knowledge Assessment (maximum of 100 points): 100			
Pre-exam obligations	points	Final exam	points
Active class participation	5	written exam	
Practical work	5	oral exam	70
Preliminary exam(s)	20	
Seminar(s)			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			