

Level: bachelor				
Course title: Agroecological problems in Vojvodina				
Status: elective				
ECTS: 6				
Requirements: None				
Learning objectives Students need to acquire the basic knowledge about the agroecological problems, as well as the possibility of solving them in Vojvodina. It is necessary to know complex relationships in agroecosystems in order to be able to properly apply appropriate measures. The course should enable students to acquire knowledge of the principles of agroecology, natural resources management in agriculture, the formation of agroecosystems, sustainable functioning of agroecosystems, ecological concepts that will be useful to farmers. The course enables acquiring skills for proper management of agroecosystems, assessment of productivity and condition of agroecosystems, avoiding harmful influences of certain technologies in agriculture on the environment.				
Learning outcomes Students will become familiar with the problems of the environment (air, water and soil pollution), as well as their impact on agricultural production. At the end of the course, students should show understanding of the basic principles of agroecology, the impact of environmental factors on cultivation of the plants and additional elements of agroecosystems, as well as the operation and management of agroecosystems. Students should be prepared to apply ecological technologies in the cultivation of crops, recognize the negative impact of agrotechnical measures on natural resources and the environment, change and adapt agrotechnical measures applied to agricultural land in order to protect and preserve the environment.				
Syllabus <i>Theoretical instruction</i> Ecology and Agriculture; The most important abiotic factors - climate or atmospheric, edaphic and orographic; The most important biotic factors - mutual relations between living organisms in the agroecosystem, anthropogenic impacts; Pollution and air protection; Management of water resources, pollution and water protection; Pollution and soil protection; Sustainable agriculture; Population ecology of plants in agriculture; The concept of biocenosis, ecological niche and application in agriculture; Agroecosystems; Interactions between agroecosystems and natural ecosystems; The application of ecological principles in agriculture. <i>Practical instruction</i> Visit to the Institute of Field and Vegetable Crops in Novi Sad				
Weekly teaching load				Other:
Lectures: 2	Exercises: 1	Other forms of teaching:	Student research:	