

Study program: Organic crop and livestock production			
Type and level of study: Bachelor academic studies			
Course Title: BASICS ECOLOGICAL AGRICULTURE			
Professors: Dr. Nikolić P. Olivera, Associate Professor			
Status: Compulsory, semester II			
ECTS: 8			
Prerequisite: None			
The goal of the course The goal is that students should acquire awareness of the benefits of organic, biodynamic and organic agriculture compared to conventional, in terms of safe food, respect for people and their needs, conservation of natural resources, ecological balance and social responsibility.			
The outcome of the course By completing the planned program, students should master the methods of ecological, organic and biodynamic agriculture and their practical application, develop the ability to recognize the priority measures of crop rotation, respect for biodiversity, consistent application of organic, natural materials and the importance of compliance with regulations, provided by standardization and the Law on Organic Agriculture.			
Syllabus <i>Theoretical study –</i> Soil as basic resource in agriculture production. Soil traits: physical, chemical, biological. Water, air and temperature regimes of soil. Soil fertility. The concept of sustainable development. Basic concepts in the field of ecological agriculture, introduction and importance of organic and biodynamic agriculture, the conditions of production plants for human and animal consumption. Modification of technology of production plants (tillage systems, fertilizing, protection and care of crops) adapted to requirements and rules of organic and biodynamic agriculture. Crop rotation, specific of mixed crops, covering crops and green manuring, conservation of genetic resources and agro- genetic resources. The importance of old varieties and populations and their preservation and rational use of the eco-farms. Using compost. Permaculture. Specifics of biodynamic production base and development of closed and diversified production system. The specificity of biodynamic preparations and their use. Lunar calendar and certification. Codex Alimentarius. <i>Practical lessons -</i> Formulation of model organic and biodynamic farms. Practical demonstration through experiments, model organic and biodynamic agriculture. Designing organic garden. Comparison of organic and biodynamic model of agricultural production on practical examples. Seminar papers. Stay on organic farms, involvement in the production and preparation of organic fertilizers.			
Literature 1. Olivier de Schutter, UN Special Rapporteur on the Right to Food; 2011: Agroecology and the Right to Food http://www.srfood.org/images/stories/pdf/officialreports/20110308_a-hrc-16-49_agroecology_en.pdf 2. Sustainable Agriculture: Definitions and Terms, Mary V. Gold, 2007. http://afsic.nal.usda.gov/sustainable-agriculture-definitions-and-terms-1 3. Organic Agriculture, European Commission, 2012. https://ec.europa.eu/europeaid/sites/devco/files/study-organic-agriculture-201206_en_5.pdf 4. Regulative EU 834/2007, 889/2008, 1254/2008			
Number of lectures: 5			Other Lessons
Lectures: 2	Practices: 3	Other forms of teaching: Student research work:	
Teaching methods: Lectures, using computer technology, discussions with students, individual and team work.			
Score (maximum 100 points)			
Pre-commitments	Points	The final exam	Points
Activity during lectures	10	Written exam	
Practical lessons	20	Oral examination	50
Preliminary exams	2 x 10 = 20		
Seminars			
<i>Total</i>	50		50