

Study program: Organic crop and livestock production			
Type and level of study: Bachelor academic studies			
Course Title: ORGANIC SEED PRODUCTION			
Professors: Dr. Olivera Nikolić, Associate Professor			
Status: Optional 4, semester VII			
ECTS: 8			
Prerequisite: None			
The goal of the course The aim of the course is the acquisition of knowledge, principles and methods of seed production in organic agriculture, preparation and marketing of seeds in organic system in order to successfully apply the knowledge in practice.			
The outcome of the course Acquiring the necessary knowledge and skills, students become more independent and able to organize seed production, processing and marketing of products, by principles and legislation of organic seed production. Seed production is characterized by a number of specific features where seed production must meet the requirements of certified seed sort, together with the requirements of organic regulations and laws, therefore the students have to be able to organize and control them.			
Syllabus <i>Theoretical study -</i> The specificity of breeding in organic farming, legislation, sources of variability, genetic resources, methods of organic plant breeding (approved, conditionally approved, restricted). Registration of organic varieties, testing and protection. Definition of seed sowing material, seedlings, seed production. General seed production, introduction, regulations on seeds, conventional and organic. Marketing in seed production and international trade in seeds, biological basis of seed production, seed viability, biological and other properties of seeds, seeds material (natural and the revised seeds), principles of seed production, specificity for the main crop and vegetable species, seed processing technology, using organic allowed resources and materials, packaging and packing, storage of seeds. Seed categories. Method of maintaining the basic seed of inbred and open-pollinated plant species, seed production of cereals, industrial crops, forage crops, vegetables, medicinal and aromatic plants. Organic seed production, specific organic seed production, legislation in the field of organic seed production, the Law on Organic Agriculture of Serbia, EU 834-2008, respecting the Codex Alimentarius, Commission for Organic Agriculture and the principles of GAP-Good Application Practices, HACCP - Hazard Analysis and Critical Control Point system for finishing capabilities, and seed production by the principle of good agricultural practices and integrated production. Production of organic seed and planting materials, principles of treatment of organic seeds, labeling, packaging and distribution of organic seeds and planting materials. Certification and documentation about origins and seed quality. <i>Practical lessons -</i> Introduction to seeds and seedlings, seed categories, labeling, control and certification of organic seeds, visiting producers and processors of organic and conventional seeds.			
Literature Breeding for resilience: a strategy for organic and low-input farming systems? (2010): v, of the "Organic and Low-Input Agriculture" Proceedings. Paris http://www.itab.asso.fr/downloads/actes/actes-eucarpia2010.pdf Organic Seed Alliance · www.seedalliance.org E.T. Lammerts van Bueren, M. Hulscher, M. Haring, J. Hoogendorn, A.P.M. den Nijs, J.D. van Mansvelt, J. Jongerden, G. Ruvenkamp (1999): Sustainable organic plant breeding. Final report, a vision choices, consequences and steps, Louis Bolk Institute			
Number of lectures: 6			Other Lessons
Lectures: 3	Practices: 3	Other forms of teaching:	
Student research work:			
Teaching methods: Lectures, discussions with students, experimental exercises, preparation and public defense of practical applied work.			

Score (maximum 100 points)			
Pre-commitments	Points	The final exam	Points
Activity during lectures	10	Written exam	
Practical lessons	10	Oral examination	40
Preliminary exams	2x10=20		
Seminars	20		
<i>Total</i>	60		40