

Study Programme: Soil, plant and genetics		
Course Unit Title: Seed Production		
Course Unit Code: 19MZBGO01I004		
Name of Lecturer(s): Velimir N. Mladenov		
Type and Level of Studies: master academic studies		
Course Status (compulsory/elective): elective		
Semester (winter/summer): winter		
Language of instruction: serbian		
Mode of course unit delivery (face-to-face/distance learning): face to face		
Number of ECTS Allocated: 5		
Prerequisites: The Theory of Plant Breeding		
<p>Course Aims:</p> <p>To familiarize the student with the latest achievements in the field of creation of new plant varieties, their protection, maintenance of genetic cleanliness and technology of production, processing and testing of seed quality. The course is based on theoretical assumptions.</p>		
<p>Learning Outcomes:</p> <p>It enables the students to understand contemporary trends in seed production and indicate which scientific disciplines they should focus their future work on.</p>		
<p>Syllabus:</p> <p><i>Theory</i></p> <p>1. Introduction and definition of seed production (definition of seed production, general terms related to seed production); 2. Task and organization of seed production (multiplication of seeds of recognized varieties, preservation of morphological, biological and agronomic properties of seeds, degeneration of varieties, biological mixing of seeds, attack of diseases and harmful organisms, mechanical mixing of varieties); 3. Economic and economic importance of seed production (international organizations dealing with seed production, organization and trade of seeds in Serbia, achieved results in seed production in Serbia); 4. Legal regulations in the field of seed production (legal regulations in the world and in the EU, legal regulations in Serbia), 5. Professional supervision of seed production and recognition of seed crops, processing and preparation of seeds for sale, testing of seed quality and its declaration; 6. Seeds ecology (agro-ecological conditions, yield and quality, physiological model of seed quality maintenance, influence of environmental factors on seed properties, temperature and humidity, light, ecological significance of seed dormancy); 7. Seed production of field plants (botanical affiliation, specificities in seed crop production, hybrid types, field crop control, seed processing, seed quality testing, seed storage and preservation).</p> <p><i>Practice</i></p> <p>The practice will be followed by teaching units and the students will prepare seminar papers from certain areas, which they will present during the practice. For the preparation of seminar papers, they will use the latest sources of literature from international journals.</p>		
<p>Required Reading:</p> <ol style="list-style-type: none"> 1. Milošević, Mirjana, Kobiljski, B. 2011: Semearstvo. Institut za ratarstvo i povrtarstvo. Novi Sad. 2. Mirić, M., Brkić, M. 2002: Dorada semena. Društvo selekcionera i semenara Srbije, Beograd. 		
Weekly Contact Hours:	Lectures: 45	Practical work: 30
<p>Teaching Methods:</p> <p>The theoretical part of the teaching is conducted in the faculty lecture halls. Teaching is conducted through teacher lectures and student group work within the given topics.</p>		

Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	10	written exam	30
Practical work	10	oral exam	20
Preliminary exam(s)		
Seminar(s)	30		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			