

<b>Study Programme:</b> Organic agriculture			
<b>Course Unit Title:</b> WEEDS AND BIOPESTICIDES			
<b>Course Unit Code:</b> 19.ORG012			
<b>Name of Lecturer(s):</b> Assoc. Prof. Bojan Konstantinović, Assoc. Prof. Dragana Šunjka			
<b>Type and Level of Studies:</b> Undergraduate academic studies			
<b>Course Status (compulsory/elective):</b> compulsory			
<b>Semester (winter/summer):</b> summer			
<b>Language of instruction:</b> serbian			
<b>Mode of course unit delivery (face-to-face/distance learning):</b> face-to-face			
<b>Number of ECTS Allocated:</b> 5			
<b>Prerequisites:</b> none			
<b>Course Aims:</b> Identifying the most economically important weed species in the organic production and the possibilities of their control (mechanical and integral methods). Use of biopesticides in organic agricultural production.			
<b>Learning Outcomes:</b> The students who have passed the course Weeds and biopesticides will be able to determine and identify the most important weed species in organic agriculture. After the course, they would be able to choose and apply the mechanical and integrated weed control measures, as well as biopesticides.			
<b>Syllabus:</b>			
<i>Theory</i> The historical significance, the term, the definition, and the damage of the weeds. Weeds propagation. Seed dormancy and soil “seed bank”. The characteristics of the soil and weeds. Allelopathy. The medicinal and poisonous plants. Weeds community. Phytocoenology. Anthropogenic plant communities. The classification of the weed control measures. The importance of integrated control measures. Indirect weed control measures. Direct weed control measures. Mechanical control measures. Biological weed control. Biopesticides – the significance, definitions, and classification, type of formulation. Modes of action of biofungicides, bioinsecticides, bionematocides, bioherbicides. Plant protection in organic agricultural production. Legislative in the field of biopesticides. Use and application of biopesticides. Advantages and disadvantages of their application. The status of biopesticides in crop protection. Risk assessment in biopesticides application.			
<i>Practice</i> Familiarizing with the most important weed species. Familiarizing with the seeds and seedlings of economically significant weeds. Exercises successively follow the lectures, highlighting weed morphology. Formulations of the biopesticides and the type of application. Evaluation of the biological effects of biopesticides and their use.			
<b>Required Reading:</b> Konstantinović, B. 2008. Korovi i njihovo suzbijanje, Poljoprivredni fakultet, Novi Sad; Konstantinović, B. 2011. Osnovi herbologije i herbicidi, Poljoprivredni fakultet, Novi Sad. Vuković, S., Šunjka, D. 2020. Korovi i biopesticidi (deo BIOPESTICIDI). Praktikum, Univerzitet u Novom Sadu, Poljoprivredni fakultet. Vuković, S., Šunjka, D. 2021. BIOPESTICIDI. Udžbenik. Univerzitet u Novom Sadu, Poljoprivredni fakultet.			
<b>Weekly Contact Hours:</b>	<b>Lectures:</b> 3	<b>Practical work:</b> 2	
<b>Teaching Methods:</b> Lectures and Practical classes.			
<b>Knowledge Assessment (maximum of 100 points):</b>			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	-	colloquium	40
Practical work	-	oral exam	60
Preliminary exam(s)	-		
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.			