Study Programme: PHYTOMEDICINE	
Course Unit Title: PREDICTION OF THE WEED SPECIES OCCURRENCE	
Course Unit Code: 19.FT1015	
Name of Lecturer(s): Asst. Prof. Nataša Samardžić, PhD	
Type and Level of Studies: UNDERGRADUATE ACADEMIC STUDIES PHYTOMEDICINE	
Course Status (compulsory/elective): elective	
Semester (winter/summer): summer	
Language of instruction: english	
Mode of course unit delivery (face-to-face/distance learning): face-to-face	
Number of ECTS Allocated: 6	

Prerequisites: The conditions are in accordance with the ECTS system. The student is supposed to have passed the final exam of the course The basics of herbology prior to taking the final exam

Course Aims: Determination of the cause-effect relationship between weeds emergence, their biological characteristics and the abiotic and biotic factors effects, primarily concerning the anthropogenic effect, by the application of the different weed control measures in particular agroecosystems.

Learning Outcomes: The students will be able to predict the weed occurrence in the following growing season and to apply the control measures in the correct time, based on their knowledge on the weed species of the particular area, the spread of the weeds, the impact of the environmental factors, as well as the previously applied control measures.

Syllabus:

Theory

The effect of the biological characteristics on the weeds emergence and spreading. Geographical distribution of the weeds and the microclimatic impact on their distribution. Horizontal and vertical distribution of weeds and their seeds (the vegetative propagation organs). The mapping of the weeds. The effect of the indirect and direct control measures on the weeds regeneration and emergence in the next growing season. The economical injury level and the possibilities for the weeds occurrence prediction by using the software programs. The making of the plan and the programme for the weed control in the next growing season.

Practice

Familiarizing with the weeds biological and ecological characteristics. Morphology and the structure of the seeds and the vegetative propagation organs of the weeds. The determination of the weeds abundance and coverage; amount of seeds and vegetative propagation organs in the arable layer of the soil. The methods for the control measures efficacy evaluation. The mapping of the weeds. Determination of the economical injury level. The making of the weed control programme based on the given parameters.

Required Reading:

Konstantinović, B. (2011): Osnovi herbologije i herbicidi, Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad.

Konstantinović, B. (2014): Osnovi herbologije i korovi urbanih sredina, Univerzitet u Novom Sadu, Poljoprivredni fakultet, Novi Sad.

Weekly Contact Hours: 1+2	**Lectures: 15**	**Practical work: 30**
Teaching Methods:		
Lectures and Practical classes.		
Knowledge Assessment (maximum of 100 points):		

Pre-exam obligations	Points 40	Final exam	Points 60
Preliminary exam(s)	20	oral exam	60
Colloquium	20		

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