

Study Programme: PHYTOMEDICINE			
Course Unit Title: ECOLOGICAL RELATIONS OF THE ALLELOPATHIC PLANTS			
Course Unit Code: 19.FT2020			
Name of Lecturer(s): Assoc. Prof. Bojan Konstantinović, PhD; Asst. Prof. Nataša Samardžić, PhD			
Type and Level of Studies: UNDERGRADUATE ACADEMIC STUDIES PHYTOMEDICINE			
Course Status (compulsory/elective): elective			
Semester (winter/summer): winter			
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.			
Course Aims: Familiarizing with the allelopathy mechanisms among weeds and crops, as well as among the other harmful organisms of the agroecosystems.			
Learning Outcomes: The students who have passed the subject Ecological relations of the allelopathic plants will be able to understand the relations between the crops and the harmful organisms under the plant production conditions, as well as to implement the gained knowledge into the crop rotation and weed control management.			
Syllabus:			
<i>Theory</i>			
<i>Allelopathy. Allelochemicals. The allelochemicals selectivity. Weeds with the allelopathic properties. Crops with the allelopathic properties and their effect on the weeds. Autotoxicity of the crops and the importance of the crop rotation. The possibility for the use of the allelopathy in the agriculture. The crop strategy. The products on the market. The weeds and microorganisms interaction. The interaction between the weeds and the other harmful organisms. Commensalism.</i>			
<i>Practice</i>			
<i>The experimental and field trials in order to determine the allelopathic and the other competitive relations between the crops and the weeds.</i>			
Required Reading:			
Zeng, R. S. (2008): Allelopathy in sustainable agriculture and forestry. Springer, New York.			
Willis, R. J. (2007): The history of allelopathy. Springer, Dordrecht			
Rice, E. L. (2012): Allelopathy, 2nd edition. Academic Press, New York.			
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		