

Study Programme: Agronomy			
Course Unit Title: Pest insects in plantations of fast-growing woody species			
Course Unit Code: 19.AGR136			
Name of Lecturer(s): Poljaković - Pajnik K. Leopold			
Type and Level of Studies: PhD			
Course Status (compulsory/elective): Elective			
Semester (winter/summer): winter			
Language of instruction: Serbian, English			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 7			
Prerequisites: N/A			
Course Aims:			
<p>Growing fast-growing tree species is the possibility that in a relatively short period of time produces significant amounts of wood suitable for mechanical and chemical processing, power generation, and other purposes. Nowadays the plantation grows poplar, willow, locust, Paulownia, white pine, spruce, and others. species. These plantations particularly if they are located on large surfaces provide optimal conditions for the development and growth of harmful organisms which farmed species are the host plant. Insect pests are one of the most important factors that hamper the development of plantations of fast-growing tree species. Unlike natural forests growing plantations is associated with the intensive application of silvicultural treatments, and the use of measures of combating harmful insects is more specific and much more intense than in the forest. In addition to the repressive measures of combating harmful insects growing plantations of fast-growing species are continuing the previous application of a set of measures that aim to prevent the damage from insects (selection of genotypes to which insects have a lower degree of preference, appropriate selection of species and habitats, regular, and adequate implementation of silvicultural treatments, regular monitoring of the levels of the population of harmful insects). The aim of the course is to provide students with knowledge of the harmful insects that threaten plantations of fast-growing tree species, as well as preventive measures to protect and direct the plantation of insects.</p>			
Learning Outcomes:			
Acquire the necessary knowledge about insects that threaten the cultivation of fast-growing tree species, their identification, and protection measures.			
Syllabus:			
Insect pests in nurseries and plantations of fast-growing tree species, The importance of insect pests			
Practice			
Preventive measures for protection, mechanical measures, chemical insect control measures, biological measures			
Required Reading:			
<ol style="list-style-type: none"> 1. Vujić, P., Gojković, N., Jodal, I., Sidor, Ć., Gojković, G. (1967): Bolesti i štetni insekti topola i mere zaštite, Jugoslovenski poljoprivredno-šumarski centar. 2. Mihajlović, L.J. (2008): Šumarska entomologija. Univerzitet u Beogradu, Šumarski fakultet, Beograd. 3. Живојиновић, С., Васић, К., Спаић, И., Перовић, Н. (1962): Заштита четинара, I и II део, Југославенски саветодавни центар за полјопривреду и шумарство, Београд. 4. Tillesse, V., Nef, L., Charles, J., Hopkin, A., Augustin, S. (1998): Damaging poplar insects – Internationally important species, FAO. 			
Weekly Contact Hours:	Lectures: 4	Practical work: 4	
Teaching Methods:			
Lectures, seminars, consultation, and mentoring to students.			
Knowledge Assessment (maximum of 100 points): 100			
Pre-exam obligations	40 Points	Final exam	60 points
Active class participation		written exam	
Practical work		oral exam	60

Preliminary exam(s)		
Seminar(s)	40		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			