

Study Programme: Precision farming			
Course Unit Title: THE TESTING OF POWER MACHINES AND TRACTORS			
Course Unit Code: 19.PRP020			
Name of Lecturer(s): Prof. Lazar Savin, PhD			
Type and Level of Studies: GRADUATE 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: No			
Course Aims: The aim of the course is to familiarize students with the types of tests, procedures and the way of writing reports on the testing of power machines and tractors according to different standards and procedures, which are equally used in the world. Testing of power machines and tractors should include testing of engine and tractor performance, ergonomic characteristics and especially the safety of the tractor operator.			
Learning Outcomes: After passing the course, the student acquires knowledge and skills that enable him to: <ul style="list-style-type: none"> • application of domestic and international standards that describe testing procedures and writing reports on performance testing of power machines and tractors, • application of domestic and international standards that describe testing procedures and writing reports on testing ergonomic tractors, • application of national and international standards that describe testing procedures and writing operator safety test reports. 			
Syllabus: <i>Theory</i> Lectures include basic test methods and equipment, tests according to OECD rules, tests according to European Union directives, tests according to European Union standards, tests according to international and domestic standards, ISO, JUS and others. The lectures also include tests according to technical regulations. <i>Practice</i> Exercises include familiarization with test methods and equipment, laboratory testing, field testing, and report writing.			
Required Reading:			
Weekly Contact Hours: 4	Lectures: 2	Practical work: 2	
Teaching Methods: Lectures and Practical classes, Consultations if needed.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	10	written exam	
Test	0	oral exam	50
Seminar papers	40	
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			