

Course Unit Descriptor

Study Programme: Soil, plant and genetics			
Course Unit Title: Climate change and extreme weather events			
Course Unit Code: 19.ZB9001			
Name of Lecturer(s): prof. dr Branislava Lalić			
Type and Level of Studies: Master Academic Studies			
Course Status (compulsory/elective): compulsory			
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: 5			
Prerequisites: Meteorology course at undergraduate studies			
Course Aims: Gain knowledge about climate change (CC) and extreme weather events (EWE), its prediction and effects			
Learning Outcomes: Students should acknowledge differences and feedbacks between CC and EWE, mitigation measures and EWE adaptation measures which can be used in every day practice.			
Syllabus: <i>Theory</i> Climate changes. Climate classification and regionalisation. CC physical background. CC impact on agriculture. CC adaptation in agriculture. CC mitigation measures in agriculture. EWE. Definition and probability of drought, heat waves, frost, hail, flooding and extreme precipitation. Early warning systems in agriculture. Risk assessment and management. Adaptation and mitigation. NDVI application <i>Practice</i> Individual practical work			
1. Required Reading: Lalic, B., Eitzinger, J., Dalla Marta, A., Orlandini, S., Firanj Sremac, A., Pacher, B. (2018) Agricultural Meteorology and Climatology, Firenze University Press, Florence, p.354, ISBN 978-88-6453-795-5, http://www.fupress.com/archivio/pdf/3808_16282.pdf			
Weekly Contact Hours: 5	Lectures: 3		Practical work: 2
Teaching Methods: Lectures, discussion, mentored individual research work			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	0	written exam	
Practical work	49	oral exam	51