

<b>Level:</b> PhD				
<b>Course title:</b> Advances in Agrometeorology				
<b>Status:</b> elective				
<b>ECTS:</b> 30				
<b>Requirements:</b> appropriate master studies				
<b>Learning objectives</b> Upgraded knowledge about the main objectives of modern agrometeorology. Students should get knowledge about the application of numerical weather prediction products of different temporal and spatial scales in agrometeorology.				
<b>Learning outcomes</b> PhD students with advanced knowledge in agrometeorology. They should have the ability to understand and analyze basic agrometeorological problems, their spatial and temporal scales. PhD student should be able to apply numerical weather prediction products of different temporal and spatial scales in agrometeorology; to use scientific literature and prepare different forms of scientific analysis.				
<b>Syllabus</b> <i>Theoretical instruction</i> Climate Change. Causes and consequences of climate change. Modelling of climate change. “Summer drying problem in SEE” analysis of phenomena. Climate change and agriculture. Impact on yield. Mitigation and adaptation options. Agrometeorological indices. Definition. Spatial and temporal scale. Calculation of agrometeorological indices using numerical weather prediction products of different temporal and spatial scales.  <i>Practical instruction</i> AGRICLIM model. Calculation of agrometeorological indices using AGRICLIM. Comparison of agroclimatic indices for present and future climate.				
<b>Weekly teaching load</b>				Other:
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 15	