

<b>Level:</b> master				
<b>Course title:</b> Master of Geographer				
<b>Subject title:</b> Applied Climatology; dr Stevan Savić				
<b>Status:</b> elective				
<b>ECTS:</b> 6				
<b>Requirements:</b> n/a				
<b>Learning objectives</b> Students will get information about possibilities of using energy of various meteorological parameters and climatological processes in the atmosphere and above the ground (solar energy, energy of wind, patterns of rainfall and snow melting as essential factors of hydropower potential). Master students will be informed about current technologies for using various sources of energy from atmosphere processes. At the same time, students will know positive and negative impacts of various climatology events on economies and societies.				
<b>Learning outcomes</b> Students will get knowledge how to use energy sources from climatology or meteorology parameters or processes. Are these sources profitable enough and general advantages or disadvantages of using these sources. Students will know possibilities of adaptation on eventually negative climate processes which can effect on society and economy. Contrary to this, students will know opportunities to use the climatology processes in order to provide better quality of life and better environment protection.				
<b>Syllabus</b> <i>Theoretical instruction</i> Solar energy – global examples and current situation in Serbia Wind energy – examples of using this power in the World and possibilities of using wind energy in Serbia Hydropower – connection of rainfall patterns and seasonality of snow and ice melting with hydropower (global examples and situation in Serbia) Climate events – flood waves as consequences of rainfall patterns and snow melting; heat waves; extreme weather events, forest fires, drought (global examples and situation in Serbia) Methods of adaptation on extremes (global examples and situation in Serbia) Importance and application of climate in tourism industry (global examples and situation in Serbia) <i>Practical instruction</i> Using the instruments which have been used in monitoring various meteorological parameters (automatic weather stations, different analogue and digital instruments) Visit Meteorological laboratory in Petrovaradin				
<b>Weekly teaching load</b>				Other:
Lectures: 2	Exercises: 2	Other forms of teaching:	Student research:	