

**Subject card**

<b>Subject name and code</b>	Selected aspects of local climate, PG_00119878						
<b>Field of study</b>	Geography						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	undergraduate studies	<b>Subject group</b>			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	3	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	5	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Pracownia Badań Klimatu -> Katedra Oceanografii Fizycznej i Badań Klimatu -> Faculty of Oceanography and Geography						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Małgorzata Owczarek				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	20.0	0.0	0.0	0.0	0.0	20
	E-learning hours included: 0.0						
	Additional information: online lecture if necessary						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	20		5.0		25.0	50
<b>Subject objectives</b>	to acquire knowledge about modification of climatic conditions on a local scale and their temporal and spatial diversity						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GEOGRL3-W05] Has advanced knowledge of the environment Earth's geographic environment, understood as a unified system of interrelated and interacting each other's components; its diversity, functioning and dynamics of change, including the mutual interaction of environmental components in the area of South Baltic Coastal and Lake Districts	is able to indicate examples of the impact of local factors on the climate and the spatial and temporal variability of the local climate in various areas	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
	[GEOGRL3-K02] bear full responsibility for the actions taken actions and adhere to the principles of professional ethics and principles of intellectual honesty, is aware of the importance of a professional approach in professional life professional life	is able to take responsible actions for the environment on a local scale	[SK8] observation of student's independent or team work
	[GEOGRL3-U01] identify and analyze basic natural and socio-economic processes and phenomena and analyze their causes and course	is able to identify and analyze examples of the impact of the local climate on the environment and human activity in various areas	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[GEOGRL3-W02] key concepts in geography and theories on spatial variation and distribution of processes and phenomena on the Earth's surface	knows and understands key concepts in climatology at various spatial and temporal scales	[SW4] test/exam - oral or written
	[GEOGRL3-W03] in an advanced degree the processes and phenomena occurring in the natural environment of the Earth, with particular emphasis on the processes and phenomena occurring on the territory of Poland, especially the Coastal and South Baltic Lake Districts	knows and understands to an advanced degree the processes and phenomena occurring in areas on a local scale in Europe and Poland, especially in northern Poland, shaping the local climate of these areas	[SW4] test/exam - oral or written
	[GEOGRL3-W06] interactions between the natural and anthropogenic environment at different spatial and temporal scales, in particular the processes and phenomena occurring in the area of the South Baltic Coastal and Lake District and the determinants of these interactions	knows and understands the impact of the local climate on environmental elements and human functioning as well as modifications of the local climate	[SW4] test/exam - oral or written
Subject contents	<ul style="list-style-type: none"> <li>• spatial categories of climate</li> <li>• local climate factors</li> <li>• the impact of the local climate on humans and their activities t</li> <li>• opoclimate of undeveloped and non-forested areas</li> <li>• topoclimate of forest areas</li> <li>• topoclimate of urbanized areas</li> <li>• local climate classifications</li> </ul>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	observayion of the student's work	51.0%	5.0%
	test	51.0%	90.0%
	verbal expression	51.0%	5.0%

Recommended reading	Basic literature	<p>Kuchcik M. (eds.), 2001, Contemporary topoclimate research,, Dokumentacja Geograficzna IGIPIZ PAN, 23, Warsaw</p> <p>Kluge M. (eds.) Methods of topoclimatic studies, 1980, Dokumentacja Geograficzna IGIPIZ PAN, 3, Warsaw.</p> <p>Oke T.R., 1978, Boundary Layer Climates, Menthuen &amp; Co Ltd., London.</p> <p>Błażejczyk K. (et al.), 2014, Urban Heat Island in Warsaw, IGIPIZ PAN, SEDNO Academic Publishing, Warsaw</p> <p>Błażejczyk K., Kunert A., 2011 Bioclimatic conditions of recreation and tourism in Poland, Prace Geograficzne IGIPIZ PAN, 192, Warsaw</p>
	Supplementary literature	<p>Wyszkowski A., Trapp J., Korzeniewski J., Nurek T., 1992. Application of the heat balance method for topoclimatic mapping of forest areas,, Zeszyty Naukowe Wydziału. BGO UG, Geografia 18, Gdańsk</p> <p>Paszyński J., Miara K., Skoczek J. 1999. Energy exchange between the atmosphere and the ground as the basis for topoclimatic mapping, IGIPIZ PAN, Dokumentacja Geograficzna, 14, Warsaw</p> <p>Fortuniak K., 2003, Urban Heat Island, Wydawnictwo Uniwersytetu Łódzkiego, Łódź</p> <p>Twarowski M., 1970, The sun in architecture, Arkady, Warsaw.</p>
	eResources addresses	<p>Podstawowe  <a href="https://rcin.org.pl/igipz/dlibra">https://rcin.org.pl/igipz/dlibra</a> - The Digital Repository of the Scientific Institutes - RCIN          Uzupełniające          Adresy na platformie eNauczanie:</p>
Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> <li>- characterize the spatial scales of climate</li> <li>- list the local climate factors and examples of their impact on various meteorological elements</li> <li>- describe city zones and their impact on the modification of meteorological elements</li> </ul>	
Work placement	Not applicable	

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