University of Gdańsk

Subject card

Subject name and code	Selected Aspects of Local Climate - lecture, PG_00194280		
Field of study	Geography		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2029/2030
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	Polish
Semester of study	5	ECTS credits	2.0
Learning profile	academic	Assessment form	credit
Conducting unit	Climate Research Laboratory -> Department of Physical Oceanography and Climate Research -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Małgorzata Owczarek	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	20.0	0.0	0.0	0.0	0.0	20

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	20	2.0	28.0	50

Subject objectives	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] knows the interactions between the natural and anthropogenic environments on various spatial and temporal scales, with particular emphasis on the processes and phenomena occurring in the area of the South Baltic Coast and Lake District and the conditions of these interactions	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] is prepared to 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] can dentify and analyze basic natural and socio-economic processes and phenomena, analyze their causes and course, and formulate and discuss basic issues concerning physical-geographical conditions and the social, economic, and political situation and their changes on various spatial scales	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] knows and understands key concepts and theories in geography, as well as advanced processes and phenomena related to spatial diversity and the distribution of processes and phenomena on the Earth's surface at various spatial scales, particularly in Poland	knows and understands key concepts in climatology at various spatial and temporal scales	[SW4] test/exam - oral or written
[GEOGRL3-W03] knows and understands on advanced level social, economic, and political diversity in the world, as well as the social, economic, and political characteristics of countries and regions, especially northern Poland and the Pomeranian Province; understanding of socio-economic changes taking place in the modern world	knows and understands to an advanced degree the processes and phenomena occurring in areas on a local scale, especially in northern Poland, shaping the local climate of these areas	[SW4] test/exam - oral or written
[GEOGRL3-W06] knows advanced methods of acquiring, processing, and compiling geographic environmental data, as well as methods of analyzing and interpreting such data	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

- spatial categories of climate
- local climate factors
- the impact of the local climate on humans and their activities t
- opoclimate of undeveloped and non-forested areas
- topoclimate of forest areas
- topoclimate of urbanized areas
- local climate classifications

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
verbal expression	51.0%	5.0%
test	51.0%	90.0%
observayion of the student's work	51.0%	5.0%

Recommended reading	Basic literature	Kuchcik M. (eds.), 2001, Contemporary topoclimate research,, Dokumentacja Geograficzna IGiPZ PAN, 23, Warsaw Kluge M. (eds.) Methods of topoclimatic studies, 1980, Dokumentacja Geograficzna IGiPZ PAN, 3, Warsaw. Oke T.R., 1978, Boundary Layer Climates, Menthuen & Co Ltd., London. Błażejczyk K. (et al.), 2014, Urban Heat Island in Warsaw, IGiPZ PAN, SEDNO Academic Publishing, Warsaw Błażejczyk K., Kunert A., 2011 Bioclimatic conditions of recreation and tourism in Poland, Prace Geograficzne IGiPZ PAN, 192, Warsaw
	Supplementary literature	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 Paszyński J., Miara K., Skoczek J. 1999. Energy exchange between the atmosphere and the ground as the basis for topoclimatic mapping, IGiPZ PAN, Dokumentacja Geograficzna, 14, Warsaw Fortuniak K., 2003, Urban Heat Island, Wydawnictwo Uniwersytetu Łódzkiego, Łódź Twarowski M., 1970, The sun in architecture, Arkady, Warsaw.
	eResources addresses	
Example issues/ example questions/ tasks being completed	- characterize the spatial scales of climate - list the local climate factors and examples of their impact on various meteorological elements - describe city zones and their impact on the modification of meteorological elements	
Work placement	Not applicable	

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