

Subject card

Subject name and code	Biogeography - laboratory, PG_00193828						
Field of study	Geography						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Palaeoenvironmental Research -> Department of Geomorphology and Quaternary Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Sambor Czerwiński				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	0.0	0.0	15
	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	15		1.0		9.0	25
Subject objectives	The practical classes within the biogeography course are designed to deepen theoretical knowledge through practical application. The aim of the course is: • to understand the general patterns of species distribution, • to explain the key relationships between biotic and abiotic components of the natural environment, • to present the role of human impact in the transformation of the biosphere.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GEOGRL3-U04] can apply field and laboratory methods and research tools, spatial analysis methods, and methods of presenting research results in the field of geography, assess their usefulness for tasks in which the application goal of geography can be realized	Is able to apply research methods and tools used to acquire knowledge about the distribution and identification of selected plant and animal species, as well as the principles and purposes of monitoring selected species and natural habitats.	[SU3] text preparation/written work [SU6] demonstration of practical skills
	[GEOGRL3-U02] can use theoretical knowledge in the field of geography and available sources of information to correctly interpret basic natural, social, economic, and political processes and phenomena	Understands the complex interactions between biogeographical and socio-economic processes and is able to use appropriate sources to find this type of information.	[SU2] presentation/project/paper/report
	[GEOGRL3-W06] knows advanced methods of acquiring, processing, and compiling geographic environmental data, as well as methods of analyzing and interpreting such data	Uses Geographic Information Systems at a basic level and is able to work with publicly available environmental databases.	[SW5] implementation of a problem task
	[GEOGRL3-U01] can identify 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	Understands natural processes such as organism dispersal, speciation, and climate change and their consequences. At the same time, is familiar with the basic socio-economic mechanisms and their impact on, among others, biodiversity and ecosystem structure.	[SU2] presentation/project/paper/report [SU5] implementation of a problem task
	[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	Understands the relationships between nature and its anthropogenic transformation that occurred in the past in different parts of the world.	[SW2] presentation/project/paper/report [SW5] implementation of a problem task
Subject contents	History of biogeography. The beginnings of modern historical biogeography. Fundamentals of ecological biogeography. The relationship between biogeography and ecology. Diversity in time and space. Mechanisms of evolution. Overview of the worlds terrestrial biomes. Ocean biogeography. Range, geographic barriers, ecological niche, interspecific interactions, migration, and invasion. Island biogeography as a natural laboratory for studying biogeographical processes due to isolation, limited space, and specific environmental conditions. Organism migrations. Biogeographical characteristics of Poland. Human impact on ecosystems at local, regional, and global scales in a historical perspective.		
Prerequisites and co-requisites			

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written test	51.0%	30.0%
	presentation	51.0%	30.0%
	report	51.0%	40.0%
Recommended reading	Basic literature	Kostrowicki A. S., 1999. Geografia Biosfery, Biogeografia dynamiczna lądów. PWN, Warszawa.	
		Mannion A., 2001. Zmiany środowiska Ziemi, PWN Warszawa.	
		Matuszkiewicz J. M., 2001. Zespoły leśne Polski. PWN Warszawa.	
		Pullin S., 2005. Biologiczne podstawy ochrony przyrody. PWN, Warszawa.	
Recommended reading	Supplementary literature	Weiner J., 2006. Życie i ewolucja biosfery, PWN Warszawa.	
		Kornaś J., Medwecka 2002. Geografia roślin. PWN, Warszawa.	
		Podbielkowski Z., 1995. Fitogeografia części świata, I, II. PWN, Warszawa.	
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Example issues/ example questions/ tasks being completed	Changes in the ranges of climatic optima of selected tree species as a consequence of climate change.		
	Characteristics of the main plant communities of Poland.		
Work placement	Not applicable		

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