University of Gdańsk

Subject card

Subject name and code	Biogeography - lecture, PG_00193827						
Field of study	Geography						
Date of commencement of studies	October 2027		Academic year of realisation of subject	2028/2029			
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							
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	15.0	0.0	0.0	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	Biogeography is the science of the distribution of plants and animals across the Earths surface and the historical, ecological, and anthropogenic factors responsible for it. In simplified terms, it concerns the fundamental processes of evolution, extinction, and dispersal. The aim of the course is to understand the general patterns of species distribution.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GEOGRL3-W04] has advanced knowledge of the Earth's geographical environment, understood as a unified system of interconnected and interacting components; its diversity, functioning, and dynamics of change, including the interaction of environmental components in the area of the South Baltic Coast and Lake District	Understands the diversity and functioning of the environment, its dynamics, and the long-term human impact on ecosystems. Is familiar with models and projections of species distributions, for example in relation to climate change.	[SW4] test/exam - oral or written
[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	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.	[SU4] test/exam - oral or written
[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.	[SU4] test/exam - oral or written
[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 the key concepts of biogeography as well as the patterns and theories concerning the factors determining the distribution of species on Earth.	[SW4] test/exam - oral or written
[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 occurring within the environment and between nature and its anthropogenic transformation that took place in the past in different parts of the Earth.	[SW4] test/exam - oral or written

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.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="2"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>exam</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>1. Kostrowicki A. S., 1999. Geografia Biosfery, Biogeografia dynamiczna lądów. PWN, Warszawa.

2. Mannion A., 2001. Zmiany środowiska Ziemi, PWN Warszawa.

3. Matuszkiewicz J. M., 2001. Zespoły leśne Polski. PWN Warszawa.

4. Pullin S., 2005. Biologiczne podstawy ochrony przyrody. PWN, Warszawa.

5. Weiner J., 2006. Życie i ewolucja biosfery, PWN Warszawa</td></tr>
<tr><td>Supplementary literature</td><td>Kornaś J., MedweckaKornaś A., 2002. Geografia roślin. PWN, Warszawa.

Podbielkowski Z., 1995. Fitogeografia części świata, I, II. PWN, Warszawa.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">How much land is currently directly used by humans?

The Columbian Exchange what is it and how did it affect the biosphere?</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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