University of Gdańsk

Subject card

Subject name and code	Biogeography - laboratory, PG_00193828		
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	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-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
	[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.	[SU2] presentation/project/paper/ report [SU5] implementation of a problem task
	[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-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-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
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			

<table>
<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>report</td><td>51.0%</td><td>40.0%</td></tr>
<tr><td>presentation</td><td>51.0%</td><td>30.0%</td></tr>
<tr><td>written test</td><td>51.0%</td><td>30.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>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.

Weiner J., 2006. Życie i ewolucja biosfery, PWN Warszawa.</td></tr>
<tr><td>Supplementary literature</td><td>Kornaś J., Medwecka 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">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.</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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