

Subject card

Subject name and code	Plant geography, PG_00154743						
Field of study	Biology						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	postgraduate studies		Subject group		Obligatory subject group in the field of study Optional subject group		
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				
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Pędziszewska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	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		3.0		7.0	25
Subject objectives	Increasing knowledge of the most important ecological, geographical and historical processes that have shaped and continue to shape the Earth's vegetation. To introduce theories on the formation of regional floras. To present the basics of phytogeographical regionalisation. To acquire the ability to make phytogeographical inferences based on data obtained by different methods and from different areas of natural sciences.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLMU2_U02] the graduate is able to make proficient use of the scientific literature of the biological speciality studied		uses independently selected specialist literature		[SU1] oral statement/conversation/discussion		
	[BIOLMU2_W05] the graduate knows and understands the dynamic development of the biological sciences and new research directions and disciplines		understands the interdisciplinary nature of phytogeography - the need to draw on the knowledge from different disciplines to explain the history of ranges		[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion		
	[BIOLMU2_W01] the graduate knows and understands natural phenomena and processes at different levels of complexity		understands the relationship between abiotic and biotic environmental factors and the range formation of plant formations		[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion		
	[BIOLMU2_K07] the graduate is ready to systematically update biological knowledge and information on its practical applications		is open to interdisciplinary cooperation, valuing expertise		[SK1] oral statement/conversation/discussion		
	[BIOLMU2_U07] the graduate is able to critically confront biological information from a variety of sources and, on this basis, draw valid conclusions		can critically analyse range maps and make hypotheses about the history of range formation		[SU5] implementation of a problem task		

Subject contents	Introduction to theory, methods and terminology of general plant geography; range maps. The influence of abiotic and biotic factors on the distribution of plants and plant formations on Earth. Expansion and spread of plants. Direct (palaeobotanical) and indirect in historical plant geography; phylogeography. The influence of major geological processes (tectonic plate theory) and climate change (role of glaciations) on the formation of floras and biodiversity in different geographical areas. Geographical substitution. The formation and transformation of ranges. Disjunct ranges. Relics and endemics. Geographical elements. Division of the Earth into phytogeographical regions, overview of the plant states. Statistical analyses of floras. Anthropogenic transformations of floras and plant communities; plant invasions. Classification of plants synanthropic plants. Centres of origin of the most important crop plants.								
Prerequisites and co-requisites									
Assessment methods and criteria	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>choice and completion test</td><td>51.0%</td><td>100.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade	choice and completion test	51.0%	100.0%		
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Recommended reading	Basic literature	Cox B. V., Moore P. D. 2010. Biogeography an ecological and evolutionary approach. 8. Ed. Wiley & Sons Inc.Dahl E. 1998. The Phytogeography of Northern Europe. Cambridge Univ. Press, Cambridge. Kornaś J., Medwecka-Kornaś A. 2002. Geografia roślin. PWN, Warszawa.Kornaś J. 1996. Pięć wieków wymiany flor między Starym a Nowym Światem. Wiadomości Botaniczne 40(1): 111-119. Kostrowicki A. S., 1999. Geografia biosfery. PWN, Warszawa.Lomolini M.V., Riddle B.R., Whittaker R.J., Brown J.H. 2010. Biogeography. Sinauer Associates, Inc., Massachusetts							
	Supplementary literature	Podbielkowski Z. 1991. Geografia roślin. Wyd. Szkol. i Pedagog., Warszawa. Podbielkowski Z. 1995. Wędrowki roślin. Wyd. Szkol. i Pedagog., Warszawa. Ralska-Jasiewiczowa M., Latałowa M., Wasylkowa K., Tobolski K. i in. 2004. Late Glacial and Holocene history of vegetation in Poland based on isopollen maps. Wyd. IBPAN, Kraków							
	eResources addresses	Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed	Lecture with multimedia presentation, Discussion on a given topic e.g. the influence of contemporary climate change on the development of plant ranges.Independent work, Worksheets e.g. analysis of range maps of selected species.Quiz								
Work placement	Not applicable								

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