

Subject card

Subject name and code	Plant ecology, PG_00128789						
Field of study	Biology						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
Education level	Bachelor's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		English		
Semester of study	6		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Department of Plant Ecology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr Rafał Ronowski				
	Teachers		mgr Rafał Ronowski				
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		11.0		24.0	50
Subject objectives	Provide basic knowledge of plant ecology - the structure and functioning of vegetation.						
	Indication of the role of plants in diagnosing environmental changes in various time scales.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
		B_K01 the student knows the limits of their own knowledge and understands the need for constant learning and development, and is open to new ideas	[SK8] observation of student's independent or team work
		B_U06 – the student can read simple scientific biological texts in Polish and simple texts in English	[SU8] observation of student's independent or team work
		B_U08 - the student can learn independently, in a targeted manner	[SU8] observation of student's independent or team work
		B_W05 – the student knows and understands the basic rules and describes the mechanisms of life functioning at the level of population, biocenosis and ecosystem as well as temporal and spatial determinants of biological diversity.	[SW3] text preparation/written work
		B_W16 – the student knows and explains a relationships between achievements of a selected field of science and the discipline of natural sciences, and the possibilities of their use in socio-economic life, taking into account the sustainable use of biological diversity	[SW3] text preparation/written work
Subject contents	- Theories, ecological phenomena and processes - The organization of plant systems (individual, population, community, ecosystem) - Life strategies of plant species - Functional and structural diversity of vegetation - Application of plant ecology in the assessment of the natural and cultural environment - Bioindicator value of plants in the reconstructions of the long-term environmental changes - Plant Interactions with other groups of organisms		
Prerequisites and co-requisites	Fundamentals of plant biology		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Class attendance, essay covering the content of the lecture	51.0%	100.0%
Recommended reading	Basic literature	1. Grime J.P. 2002. Plant strategies, vegetation processes and ecosystem properties. Wiley & Sons Ltd., Chichester. 2. Maarel E., van der. 2006. Vegetation ecology. Blackwell Publ. 3. Schulze E. D., Beck E., Buchmann N., Clemens S., MüllerHohenstein K., SchererLorenzen M. 2019. <i>Plant Ecology</i>, 2nd ed. Springer-Verlag GmbH, Germany. 4. Alverson K.D., Bradley R.S., Pedersen T.F. 2003. Paleoclimate, Global Change and the Future. Springer, Berlin-Heidelberg-New York. 5. Elias i in. 2005-2007. Encyclopedia of Quaternary Sciences. Elsevier.	

	Supplementary literature	1. Silvertown J. W., Lovett Doust J. 1993. Introduction to plant population biology, 3rd edn. Blackwell Scientific Publications, Oxford. 2. Keddy P.A. 2017. Plant Ecology. Origins, Processes, Consequences. 2nd ed., Cambridge University Press. 3. Pugnaire F., Valladares F., eds. 2007. Handbook of Functional Plant Ecology (Books in Soils, Plants, and the Environment) 2edn. CRS Press, Taylor & Francis Group. 4. Gornitz V. (red.). 2009. Encyclopedia of paleoclimatology and ancient environments. Springer, Dordrecht, The Netherlands. 5. Mackay A., Battarbee R., Birks J., Oldfield F. 2003. Global change in the Holocene. Arnold, New York.
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Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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