University of Gdańsk

Subject card

Subject name and code	Evolution and systematic of seed plants and fungi, PG_00198088						
Field of study	Natural Resources Conservation						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
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	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		3.0		
Learning profile	academic		Assessment form		exam		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Przemysław Baranow				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		4.0		41.0	75
Subject objectives	1. Introduction of basic evolution and systematics of plants and fungi. 2. introduction of botanical terminology (morphology). 3. To learn and understand the research methods used in plant systematics. 4. To review selected systematic groups of plants and fungi. 5. To understand the fundamentals of plants and fungi and their interrelationships within groups as well as between them.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[OZPL3_W10] The graduate possesses a comprehensive understanding of current issues in protection of natural resources and related fields	presents and describes contemporary problems in botany and plant systematics and related disciplines (O_W10)	[SW4] test/exam - oral or written
[OZPL3_W09] The graduate possesses an advanced comprehension of the current state of knowledge and the latest trends in protection of natural resources, as well as their relationship to other natural disciplines	is oriented in the development and current state of knowledge and the latest trends in biology, especially botany, mycology and systematics, and indicates their relationship with other natural disciplines (O_W09)	[SW4] test/exam - oral or written
[OZPL3_W04] The graduate possesses advanced knowledge and understanding of the characteristics, systematics, and evolution of selected groups of organisms, as well as the basic concepts and mechanisms of evolution	presents the characteristics, systematics and evolution of selected groups of plants and fungi, describes the basic concepts and mechanisms of evolution (O_W04)	[SW4] test/exam - oral or written
[OZPL3_K08] The graduate is ready to systematically update his/her natural knowledge and to apply it in practice	systematically updates natural science knowledge and knows its practical applications (O_K08)	[SK4] test/exam - oral or written
[OZPL3_U02] The graduate can read with comprehension scientific texts in the field of natural sciences in Polish and simple texts in English	reads with understanding scientific texts on natural sciences in Polish and simple texts in English (O_U02)	[SU4] test/exam - oral or written
[OZPL3_U12] The graduate is able to learn independently in a targeted manner	learns independently in a focused manner (O_U12)	[SU4] test/exam - oral or written

Subject contents

History of systematics. Research and analytical methods in taxonomy of living organisms. Basic systematic categories. Basic concepts Of seed plant morphology. Review of selected systematic groups of angiosperms and angiosperms. Phylogeny of plants. Systematics of fungi. Modern views on the evolution of fungi.

Prerequisites and co-requisites

None

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Exam	51.0%	100.0%

Recommended reading

Basic literature	A. Literature required for final exam A.1. Used for the lecture Müller E., Loeffler W. 1987. Zarys Mykologii. PWRiL, Warszawa. Szweykowska A., Szweykowski J. 2009. Botanika. Tom 1 i 2. PWN, Warszawa. A.2. Studied independently by the student Müller E., Loeffler W. 1987. Zarys Mykologii. PWRiL, Warszawa. Szweykowska A., Szweykowski J. 2009. Botanika. Tom 1 i 2. PWN, Warszawa.
Supplementary literature	Alexopoulos C.J., Mims C., Blackwell M. 1996. Introductory Mycology. Wiley& Sons. New York. Angiosperm Phylogeny Website http://www.mobot.org/MOBOT/Research/APWeb/welcome.html Friis E.M., Pedersen K.R., Crane P.R. 2010. Diversity in obscurity-fossil flowers and early history of Angiosperms. Phil. Trans. R. Soc. B 365: 396-382. Soltis D.E., Soltis P.S. 2004. The origin and diversification of Angiosperms. Am. J. Bot. 91: 1614-1625. Spalik K, Piwczyński M. 2006. Rekonstrukcja filogenezy i wnioskowanie filogenetyczne w badaniach ewolucyjnych. Kosmos 58(3-4): 485-498.
eResources addresses	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable

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