

Subject card

Subject name and code	Plant taxonomy, PG_00211128						
Field of study	Biology						
Date of commencement of studies	October 2026		Academic year of realisation of subject			2028/2029	
Education level	Bachelor's studies		Subject group			Obligatory subject group in the field of study Optional subject group 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	3		Language of instruction			Polish	
Semester of study	5		ECTS credits			1.0	
Learning profile	academic		Assessment form			exam	
Conducting unit	Laboratory of Plant Taxonomy -> Department of Plant Taxonomy and Nature Conservation -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Sławomir Nowak				
	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	The purpose of the course is to introduce the student to the current state of research in plant taxonomy, including the latest research methods. To present the basics of the history of classification of organisms and artificial and natural classification systems. To familiarize the student with the code of botanical nomenclature, as well as various definitions of taxonomy. To develop the ability to use a key to identify species, as well as to understand the basics of its preparation. To develop in the student an awareness of the need to classify organisms in the context of biodiversity loss.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLL3_W07] knows the development of biology as a science, its connections with other disciplines and the principles of using biological knowledge in the economy and social life, including ways that are entrepreneurial		
	[BIOLL3_W05] has advanced knowledge of experimental methods, laboratory and field techniques, and the principles of planning and conducting biological research		
	[BIOLL3_U07] is able to present and justify her/his adopted position, using appropriate scientific argumentation, adapted to various audiences, and take part in discussions or debates		
	[BIOLL3_K04] is ready to apply the principles of bioethics, scientific integrity and honesty, including the proper handling of biological material and respect for intellectual property		
	[BIOLL3_K01] is ready to critically evaluate her/his biological knowledge and continuously update and develop it, taking into account scientific advances and the needs of practice		
Subject contents	Scope and definition of taxonomy. The need for classification-taxonomy vs. biodiversity. Development of taxonomy: ancient classifications, Linnaean classification system, post-Linnaean natural systems, post-Darwinian phylogenetic systems. Modern methods used in the development of classification systems: phenetic (taxonomy), phylogenetic (cladistics), molecular analysis. Sources of taxonomic information (information from morphology and anatomy, cytology and cytogenetics, from reproductive systems, phytogeography, phytoecology and chemical data). The concept of predictability of the classification system. Macro- and micro-taxonomy. Functional and conservative traits. Definition of species. The ranks of intraspecies taxa. Comparability of species and higher taxonomic units. Taxonomy in the service of man.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Task during the course or exam	51.0%	100.0%
Recommended reading	Basic literature	Stace C.A. 1993. Taksonomia roślin i biosystematyka. PWN. Warszawa	
	Supplementary literature	Stearn W.T. 2004. Botanical Latin. 4th ed. David and Charles Publishers. Jeffrey, C. 1977. Biological Nomenclature (2nd. edn.). Edward Arnold Davis Heywood. 1963. Principles of angiosperm taxonomy. New York. Spalik K, & Piwczyński M. 2006. Rekonstrukcja filogenezy i wnioskowanie filogenetyczne w badaniach ewolucyjnych. Kosmos 58(3-4): 485-498. Laneand C.E, Archibald J.M. 2008. The eukaryotic tree of life: endosymbiosis takes its TOL. Trends in Ecol. & Evol. 23(5): 268-275. Stuessy T. 2009. Paradigms in biological classification. Taxon 58: 1707-1708.	
	eResources addresses		

Example issues/ example questions/ tasks being completed	Students who regularly attend lectures and complete assignments may, during the semester, pass all or selected learning outcomes prescribed for this course, which entitles them to exemption from all or part of the exam (according to the previously acquired learning outcomes). The point threshold for exemption from the exam is defined in the course regulations and announced before the beginning of the course and at the first lecture. Written exam with open (problem) questions (tasks). The exam covers the material from the lecture and exercises. Receipt of a positive grade from the exercises is a prerequisite for the student to take the exam.
Work placement	Not applicable

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