

Subject card

Subject name and code	Plant Taxonomy, PG_00196866						
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		2.0		8.0	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_U12] The graduate is able to use Polish and foreign languages specific to biology in a way that is understandable and accessible to both specialists and non-specialists	student uses specialized language in the field of plant taxonomy and understands the concepts of this field of science both in Polish and English	[SU3] text preparation/written work [SU4] test/exam - oral or written [SU5] implementation of a problem task
	[BIOLL3_W14] The graduate has an advanced understanding of experimental methods and the most important techniques used in the biological sciences	student is able to perform simple phenetic and phylogenetic analyses and interpret their results	[SW4] test/exam - oral or written [SW2] presentation/project/paper/report [SW5] implementation of a problem task
	[BIOLL3_W10] The graduate is familiar with the development and current state of knowledge and the latest trends in biology, as well as their relationship with other natural disciplines	student understands the impact of achievements from other fields of biology on the development of taxonomy and can give examples of them	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report [SW3] text preparation/written work [SW5] implementation of a problem task
	[BIOLL3_U13] The graduate is able to present his/her own ideas and use adequate argumentation in the context of selected theoretical and practical perspectives	student formulates independent statements in a written, graphic or oral manner, in relation to problematic taxonomic topics	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU3] text preparation/written work [SU5] implementation of a problem task
	[BIOLL3_K01] The graduate is prepared to evaluate his/her own knowledge, understand the need for continuous learning and development, and is open to new ideas	student is aware of the changes in taxonomy over time and the impact of the development of biological sciences on these changes	[SK3] text preparation/written work [SK4] test/exam - oral or written [SK5] implementation of a problem task
[BIOLL3_K08] The graduate is ready to be honest, reliable and apply the principles of savoir-vivre in academic and professional work	student prepares projects individually or in a group based on taxonomic data in an honest and reliable manner	[SK2] presentation/project/paper/report [SK3] text preparation/written work [SK5] implementation of a problem task	
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 (taxonometry), phylogenetic (cladistics), molecular analysis. Sources of taxonomic information (information from morphology and anatomy, cytology and cytogenetics, from reproductive systems, 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	<p>Stearn W.T. 2004. Botanical Latin. 4th ed. David and Charles Publishers.</p> <p>Jeffrey, C. 1977. Biological Nomenclature (2nd. edn.). Edward Arnold Davis</p> <p>Heywood. 1963. Principles of angiosperm taxonomy. New York.</p> <p>Spalik K, & Piwczyński M. 2006. Rekonstrukcja filogenezy i wnioskowanie filogenetyczne w badaniach ewolucyjnych. Kosmos 58(3-4): 485-498.</p> <p>Laneand C.E, Archibald J.M. 2008. The eukaryotic tree of life: endosymbiosis takes its TOL. Trends in Ecol. & Evol. 23(5): 268-275.</p> <p>Stuessy T. 2009. Paradigms in biological classification. Taxon 58: 1707-1708.</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>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.</p> <p>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.</p>	
Work placement	Not applicable	

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