

Subject card

Subject name and code	Plant physiology II, PG_00196863						
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		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			1.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Department of Experimental Biology and Plant Biotechnology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Wojciech Pokora				
	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	To familiarise students with the current state of knowledge and the latest trends in plant physiology and its relationship to other disciplines natural sciences.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[BIOLL3_W03] The graduate knows and understands at an advanced level the the structure and functional relationships at the cellular, tissue, organ and organismal levels		Graduates will know and understand the structure and functional relationships at a cellular, tissue, organ and organismal level			[SW4] test/exam - oral or written	
	[BIOLL3_W04] The graduate knows and understands at an advanced level the course of physiological processes and their relationship to the adaptation of the organism to changing environmental conditions		absolvent knows and understands the course of physiological processes and their relationship to the adaptation of the plant organism to changing environmental conditions			[SW4] test/exam - oral or written	
Subject contents	Photosynthesis: physiological and ecological aspects, physiological effects and adaptation to abiotic stresses, regulation of water and mineral transpiration minerals in the plant, induction and regulation of plant flowering, circadian rhythms, red light in the control of plant development, blue light in the control of morphogenesis and chloroplast movement, plant hormones: biosynthesis, degradation and signal transduction, ageing and plant death.						
Prerequisites and co-requisites	completed course in Plant Physiology						
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	written exam		51.0%			100.0%	

Recommended reading	Basic literature	Szmidt-Jaworska A., Kopcewicz J (red).2020. Fizjologia Roślin Wyd. PWN, Warszawa Kopcewicz J., Lewak S. (red.). 2012. Fizjologia roślin. Wyd. PWN, Warszawa Taiz L., Zeiger E. (red.). 2015. Plant physiology. The Benjamin/Cummings Publ. Comp. Inc. Tukaj Z. (red.). 2012. Przewodnik do ćwiczeń z fizjologii roślin. Wyd. Uniwersytetu Gdańskiego
	Supplementary literature	Szmidt-Jaworska A., Kopcewicz J (red).2020. Fizjologia Roślin Wyd. PWN, Warszawa Kopcewicz J., Lewak S. (red.). 2012. Fizjologia roślin. Wyd. PWN, Warszawa Taiz L., Zeiger E. (red.). 2015. Plant physiology. The Benjamin/Cummings Publ. Comp. Inc. Tukaj Z. (red.). 2012. Przewodnik do ćwiczeń z fizjologii roślin. Wyd. Uniwersytetu Gdańskiego
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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