

Subject card

Subject name and code	Plant physiology II, PG_00196856						
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			2.0		
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	0.0	0.0	30.0	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		3.0		17.0	50
Subject objectives	To prepare students to carry out research in plant physiology.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BIOLL3_U02] The graduate is able to make observations individually and in teams, and carry out basic physical, biological and chemical measurements in the field or laboratory		the graduates are able to carry out individually and in teams observations and perform biological and chemical measurements in the laboratory.		[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU6] demonstration of practical skills		
	[BIOLL3_U01] The graduate is able to use basic apparatus and research tools and follow the correct sequence of operations in laboratory and field work		the graduates will be able to use the apparatus and instruments of research and to follow a the correct sequence of operations in laboratory work		[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU6] demonstration of practical skills		
	[BIOLL3_K04] The graduate is ready to take responsibility for his/her own work and to follow the rules of teamwork and responsibility for shared tasks		you have an awareness of responsibility for your own work and a readiness to submit to the rules of teamwork and take responsibility for jointly realised tasks for jointly realised tasks		[SK8] observation of student's independent or team work		
Subject contents	Properties of chloroplast pigments, functioning of the photosynthetic apparatus under stress, plant movements, hormonal regulation, water management Water management of selected plant cells and tissues, plant response to abiotic stress.						
Prerequisites and co-requisites	completed course in Plant Physiology						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written credit for a batch of material	51.0%	75.0%
	completion of practical work for credit	51.0%	25.0%
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 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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