

Subject card

Subject name and code	Plant pathology, PG_00154496						
Field of study	Natural Resources Conservation						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	undergraduate studies		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				
Conducting unit	Katedra Biologii Eksperymentalnej i Biotechnologii Roślin -> Faculty of Biology						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr Martyna Zalewska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Additional information: Discussion - preparation of presentations by students on general topics in the field of phytopathology and selected disease units						
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		3.0		7.0	25
Subject objectives	Introduction of the student to contemporary issues in phytopathology and their connection with environmental changes resulting from human activities. Presentation of the most common plant diseases, methods of their diagnosis, and plant protection.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OZPL3_W14] The graduate understands the relationship between the achievements of natural sciences and their potential applications in socio-economic contexts, while considering the sustainable use of biodiversity		The graduate explains the relationships between the achievements of phytopathology and the possibilities of their application in socio-economic life, considering the sustainable use of biological diversity.		[SW2] presentation/project/paper/report [SW3] text preparation/written work		
	[OZPL3_K01] The graduate is ready to recognise the limitations in his/her own knowledge and understands the need for continuous learning and development		The graduate is aware of the limitations of their own knowledge and skills, demonstrates a readiness for continuous learning and development, and is open to new ideas		[SK8] observation of student's independent or team work		
	[OZPL3_U09] The graduate can prepare a properly documented study of selected biological problems		The graduate demonstrates the ability to prepare a properly documented study of selected phytopathological problems.		[SU2] presentation/project/paper/report		
Subject contents	Plant diseases in human life and economy. Phytopathological problems resulting from human interference in the natural environment. Factors causing diseases and disease symptoms. Plant pathogens. Plant responses to pathogens. Stages of the disease process. Elements of epidemiology sources of infection, modes of spread, mono- and polycyclic epidemics. Plant protection prevention and therapy. Molecular methods in plant disease diagnostics. Plant pathogens and food safety. Institutions involved in plant protection. Overview of selected plant diseases and pathogens.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Preparation and presentation of a multimedia presentation, as well as a written assessment of knowledge covering the presented topics	51.0%	100.0%
Recommended reading	Basic literature	Kryczyński S., Weber Z. (red.). 2010. Fitopatologia. Powszechne Wydawnictwo Rolnicze i Leśne. Herman, M., Williams, M.E. 2012. Fighting for their lives: Plants and pathogens. Teaching Tools in Plant Biology: Lecture Notes. The Plant Cell (online), doi/10.1105/tpc.112.tt0612. Articles from scientific journals.	
	Supplementary literature	Mańka K. 2005. Fitopatologia leśna. Powszechne Wydawnictwo Rolnicze i Leśne. Paduch-Cichal E. 2011. Choroby roślin sadowniczych. PWRiL Research of plant-microorganism relationships - chapter from: Chincinska, Izabela Anna. "Leaf infiltration in plant science: old method, new possibilities." Plant Methods 17.1 (2021): 1-21.	
	eResources addresses	Adresy na platformie eNauczanie:	
	Example issues/ example questions/ tasks being completed		
Work placement	Not applicable		

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