

Subject card

Subject name and code	Plant pathology, PG_00154496						
Field of study	Natural Resources Conservation						
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	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		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						
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_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		
	[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_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		
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		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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