University of Gdańsk

Subject card

Subject name and code	Plant pathology, PG_00103868		
Field of study	Natural Resources Conservation		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2025/2026
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

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	0.0	0.0	15

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

<table>
<tr><td>Learning outcomes</td><td>
<table>
<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[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</td><td>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.</td><td>[SW2] presentation/project/paper/ report
[SW3] text preparation/written work</td></tr>
<tr><td>[OZPL3_U09] The graduate can prepare a properly documented study of selected biological problems</td><td>The graduate demonstrates the ability to prepare a properly documented study of selected phytopathological problems.</td><td>[SU2] presentation/project/paper/ report</td></tr>
<tr><td>[OZPL3_K01] The graduate is ready to recognise the limitations in his/her own knowledge and understands the need for continuous learning and development</td><td>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</td><td>[SK8] observation of student's independent or team work</td></tr>
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<tr><td>Subject contents</td><td>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.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Preparation and presentation of a multimedia presentation, as well as a written assessment of knowledge covering the presented topics</td><td>51.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>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.</td></tr>
<tr><td>Supplementary literature</td><td>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.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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