

Subject card

Subject name and code	Toxicology of plants and animals, PG_00171079						
Field of study	Environmental Protection						
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026	
Education level	undergraduate studies		Subject group			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	5		ECTS credits			2.0	
Learning profile	academic		Assessment form				
Conducting unit	Pracownia Toksykologii i Ochrony Radiologicznej -> Katedra Chemii i Radiochemii Środowiska -> Faculty of Chemistry -> Rektor						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dagmara Strumińska-Parulska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	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		5.0		15.0	50
Subject objectives	familiarizing students with the issues mentioned in the lecture program content						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OŚL3_W06] Characterises levels of life organization, biodiversity and the interaction of organisms and the environment.	1. knows the types and course of poisoning and general principles of prevention against poisoning 2. knows the types and properties toxicodynamics of selected ones plant and animal toxins	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[OŚL3_U04] Uses specialist language in the discussion and properly uses the nomenclature in the field of environmental protection and individual disciplines related to it.	1. uses the correct one toxicological terminology, 2. identifies poisonous plants, 3. identifies poisonous animals, 4. uses a professional toxicological literature. 5. recognizes and knows how to use operation of the most common ones herbs,	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[OŚL3_K05] Identifies the level of her/his knowledge and skills, demonstrates the need to update knowledge about the environment and its protection, demonstrates the need for continuous professional training and personal development.	understands the need to continue education in the field plant and animal toxicology	[SK1] oral statement/conversation/ discussion
	[OŚL3_W01] Discusses the basic concepts of mathematics, physics, chemistry and biology. Describes physical, chemical and biological phenomena occurring in nature as well as geological, geomorphological and climatic conditions of the functioning of nature.	knows basic goals and tasks toxicology	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
Subject contents	Basic concepts, goals and toxicological relationships. Mechanisms of toxic action and detoxification mechanisms. Toxic compounds of natural origin, plant and animal toxins. Poisonous plants and their active substances towards humans and domestic animals. Biologically active compounds of herbal plants and their therapeutic properties. The most poisonous animals in the world. The use of plant and animal toxins in human life.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	oral presentation	51.0%	50.0%
	activity in classes	51.0%	50.0%
Recommended reading	Basic literature	Seńczuk W (red.): Toksykologia współczesna, PZWL, 2006, Piotrowski J.K. (red.): Podstawy toksykologii. Kompendium dla studentów szkół wyższych, WNT, 2008, Altmann H., Atlas trujących roślin i jadowitych zwierząt, Świat Książki, 2004	
	Supplementary literature	-	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	-		
Work placement	Not applicable		

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