University of Gdańsk

Subject card

Subject name and code	Toxicology, PG_00103525						
Field of study	Environmental Protection						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	5		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Toxicology and Radiation Protection -> Department of Environmental Chemistry and Radiochemistry -> Faculty of Chemistry -> Rector						
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	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		2.0		8.0	25
Subject objectives	introducing students to the basics of toxicology, familiarizing students with the issues mentioned in the lecture program content,						

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<tr><td>Learning outcomes</td><td>
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<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[OŚL3_K06] Knows and appreciates the practical application of the acquired knowledge and skills in solving problems.</td><td>1. makes society aware of surrounding, easily accessible poisonous substances,
2. makes society aware of the impact of radioactivity on human life,</td><td>[SK1] oral statement/conversation/ discussion</td></tr>
<tr><td>[OŚL3_K01] Behaves in a professional manner at all times; bears full responsibility for the actions taken relating to the protection of the environment and respects the principles of professional ethics and principles of intellectual honesty.</td><td>1. is aware of the risk of toxic substances in the human environment,
2. risk communication.</td><td>[SK1] oral statement/conversation/ discussion
[SK2] presentation/project/paper/ report</td></tr>
<tr><td>[OŚL3_W05] Explains the course of natural and anthropopressional physical, chemical and biological processes and phenomena occurring in nature at various levels of matter organisation.</td><td>1. knows the goals, tasks and general toxicology,
2. knows and understands the basic concepts of toxicology,
3. knows the types and course of poisonings and general principles of prevention against poisoning,
4. knows the concept of radiation dose and distinguishes its types and units,</td><td>[SW2] presentation/project/paper/ report</td></tr>
<tr><td>[OŚL3_W08] Explains the mechanisms of economic and consumer pressure on the environment and recognises the possibilities of reducing it using the latest knowledge and scientific achievements.</td><td>1. knows the structure and toxicodynamic properties of selected heavy metals,
2. knows domestic and selected foreign poisonous plants and the structure and properties of their basic active substances,
3. knows the risks associated with the use of pesticides and selected food additives,
4. has knowledge about natural and artificial radioactive elements and their occurrence in nature,
5. knows the views on the impact of small doses of radiation on humans,</td><td>[SW2] presentation/project/paper/ report</td></tr>
<tr><td>[OŚL3_U01] Performs tasks under supervision and independently in the field of analysis of the natural environment and the functioning of natural and man-made natural systems.</td><td>1. identification of domestic poisonous plants,
2. recognizes the most important natural and artificial radionuclides contained in nature,
3. is aware of the importance of natural radioactivity in human life,</td><td>[SU1] oral statement/conversation/ discussion</td></tr>
<tr><td>[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.</td><td>1. using correct toxicological terminology,
2. use of professional toxicological literature.</td><td>[SU1] oral statement/conversation/ discussion
[SU2] presentation/project/paper/ report</td></tr>
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<tr><td>Subject contents</td><td>studies from various fields of toxicology critically discussing selected and current issues and events</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>presentation</td><td>51.0%</td><td>50.0%</td></tr>
<tr><td>activity/discussion</td><td>51.0%</td><td>50.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Seńczuk W (red.): Toksykologia współczesna
Piotrowski J.K. (red.): Podstawy toksykologii. Kompendium dla studentów szkół wyższych</td></tr>
<tr><td>Supplementary literature</td><td>-</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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