

Subject card

Subject name and code	Disclosure of evidence and evidence of crime - chemical methods - lecture, PG_00132755						
Field of study	Criminology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	Master's studies	Subject group			Obligatory subject group in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			2.0		
Learning profile	academic	Assessment form			exam		
Conducting unit	Department of Bioinorganic Chemistry -> Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Aleksandra Dąbrowska				
	Teachers		dr hab. Aleksandra Dąbrowska dr hab. Karol Krzysiński				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	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		0.0		35.0	50
Subject objectives	Understanding the role of chemistry in the discovery and analysis of crime evidence. Acquiring knowledge about various chemical analysis techniques and instrumental methods. Developing the ability to interpret analytical results and solve problems. Awareness of legal and ethical aspects related to the analysis of evidence.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[KRYMMU2_UW04] He/she can apply legal and professional principles and norms in taking up the activity of criminologist	281 / 5 000 Equipping students with the technical and procedural skills necessary to conduct chemical analyzes in accordance with applicable regulations. Providing practical skills in documenting and reporting analysis results, which is crucial in the legal context.	[SU4] test/exam - oral or written
	[KRYMMU2_KK01] The graduate is aware of the level of his/her knowledge and skills, and also understands the need of lifelong learning	An introduction to the latest research and technology encourages students to constantly monitor advances in their field. Understanding the ethical aspects of working in forensic chemistry emphasizes the importance of responsibility and accuracy, which is inextricably linked to the need for continuous improvement.	[SK4] test/exam - oral or written
	[KRYMMU2_WG02] He/she demonstrates deepened knowledge about the character of natural sciences connected with the field of stud, their place in the system of sciences and mutual relations	Forensic chemistry requires the integration of knowledge from various fields of natural sciences, which allows understanding their mutual relations and place in the system of sciences. The subject provides detailed knowledge of chemical methods used in forensics, which broadens the general understanding of natural sciences.	[SW4] test/exam - oral or written [SW3] text preparation/written work
	[KRYMMU2_KR08] He/ she is aware of the level of own knowledge and skills, and understands the need for lifelong learning	Regular use of the latest publications and technologies will teach students how to keep their knowledge up to date, which is essential in a professional context. Regular use of the latest publications and technologies will teach students how to keep their knowledge up to date, which is essential in a professional context.	[SK4] test/exam - oral or written
	[KRYMMU2_UW02] He/she acquires knowledge independently and develops his/her professional skills using various sources (in native and foreign language) and modern technologies	The need to use professional literature in English develops students' language skills, enabling them to access a wider range of information and research. Learning to use various sources of information and integrate knowledge from various fields prepares students to independently solve complex professional problems.	[SU4] test/exam - oral or written
	[KRYMMU2_UW06] He/she is able to propose solutions of concrete problems and carry out procedures connected with solutions in this respect	Is able to identify specific analytical problems related to chemical evidence, which is the first step in proposing solutions. Is able to independently propose an analysis method, which is crucial for solving problems in the context of forensics.	[SU4] test/exam - oral or written
	[KRYMMU2_UK02] He/she is prepared for active participation in groups, organizations and institutions connected with the problem of crime and other related phenomena. He/she is also able to communicate with specialists and non-specialists in criminology	By understanding how chemical analysis fits into the broader context of criminology, students will be able to integrate their knowledge with other fields, which is crucial for effective participation in interdisciplinary teams.	[SK4] test/exam - oral or written
Subject contents	Introduction to forensic chemistry. Types of chemical traces. Methods of revealing traces. Chemical analysis of traces. Preparing samples for analysis. The use of chemical methods in revealing evidence. Detection and identification techniques. Legal and ethical aspects. Interdisciplinarity in forensic research.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	100.0%

Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. M. Goc, J. Moszczyński, <i>Ślady kryminalistyczne: ujawnianie, zabezpieczanie, wykorzystanie</i>, Difin, Warszawa (2007). 2. D.E.Newton, <i>Forensic Chemistry</i>, Library of Congress Cataloging-in-Publication Data, New York (2007). 3. Articles (own materials) indicated by the lecturer.
	Supplementary literature	S. Bell, <i>Drugs, Poisons, and Chemistry</i> , Library of Congress Cataloging-in-Publication Data, New York (2009).
	eResources addresses	Basic https://bg.ug.edu.pl/ - books and e-books Supplementary https://bg.ug.edu.pl/ - books and e-books
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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