

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 2026	Academic year of realisation of subject			2026/2027		
Education level	Master'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	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						
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_WG05] Has an in-depth knowledge of methods and tools, including data and information extraction techniques, specific to criminology and forensic science	(1) Has knowledge of the tools and chemical techniques used to obtain evidence data in the process of crime scene investigation; (2) Is familiar with the principles and methodology of obtaining chemical information from a crime scene, including extraction, detection, and analysis techniques for traces using chemical methods; (3) Understands the application of various analytical techniques, such as chromatography, mass spectrometry, and UV-Vis spectroscopy, in the context of obtaining evidence data in forensic science.	[SW4] test/exam - oral or written
	[KRYMMU2_WG02] Has an in-depth knowledge of the nature of natural sciences related to the studied major, their place in the system of sciences and their mutual relations	(1) Has in-depth knowledge of the chemical methods used in the detection of traces and evidence of crimes, and understands their role in the broader context of forensic science; (2) Knows the theoretical and technical fundamentals related to the identification of chemical substances in evidence materials, such as illegal substances, chemical residues, and other compounds associated with crime; (3) Understands the role of chemical methods within the forensic science system and their interrelations with other scientific disciplines, including biology, physics, and criminology.	[SW4] test/exam - oral or written
	[KRYMMU2_K05] Is able to independently and critically complement knowledge and skills, extended by the interdisciplinary dimension	(1) Engages in the development of their professional competencies by utilizing available educational tools and collaborating with other specialists to better understand and solve issues related to chemical methods used in forensic science; (2) Understands and appreciates the value of continuous self-improvement, consciously striving to update their knowledge in the context of new scientific discoveries, analytical techniques, and changing legal regulations.	[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, zabezpieczenie, 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		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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