

**Subject card**

<b>Subject name and code</b>	Physical methods of investigating traces of crimes - laboratory classes, PG_00132641						
<b>Field of study</b>	Criminology						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2025/2026		
<b>Education level</b>	postgraduate studies	<b>Subject group</b>			Optional subject group		
<b>Mode of study</b>	part-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	3	<b>ECTS credits</b>			3.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Faculty of Law and Administration -> Rektor						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Aneta Lewkowicz				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		0.0		60.0	75
<b>Subject objectives</b>	Students will become introduced to the procedures and methods of forensic trace analysis common in forensic laboratories.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[KRYMMU2_UU03] The graduate demonstrates deepened skills of observing, diagnosing, sensible assessing of complex psychological situations and analyzing motives and patterns of human behaviours	The student has the ability to analyse patterns of human behaviour.	[SU1] oral statement/conversation/discussion
	[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	The student has knowledge of possibilities of modern research techniques used at crime scene and in forensic laboratories when revealing, identifying and analysis of forensic traces.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[KRYMMU2_UW04 ] He/she can apply legal and professional principles and norms in taking up the activity of criminologist	The student uses legal and professional norms in the performance of forensic expertise and expert witness work.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[KRYMMU2_KR08 ] He/ she is aware of the level of own knowledge and skills, and understands the need for lifelong learning	Understands the need for lifelong learning.	[SK1] oral statement/conversation/discussion
	[KRYMMU2_UW07] He/she has skills in understanding and analyzing social phenomena and utilizing the analysis in professional work	Uses analyses of social phenomena in professional work.	[SU1] oral statement/conversation/discussion
	[KRYMMU2_UW06 ] He/she is able to propose solutions of concrete problems and carry out procedures connected with solutions in this respect	The student has the ability to analyse and evaluate the consistency of forensic expertise.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[KRYMMU2_KK01 ] The graduate is aware of the level of his/her knowledge and skills, and also understands the need of lifelong learning	Is aware of the level of his/her knowledge and skills in the field of Forensic Sciences Sciences), and understands the the need for lifelong learning life.	[SK1] oral statement/conversation/discussion
	[KRYMMU2_KR05] The graduate is ready to prepare and participate in the preparation of social projects taking into consideration legal, economic and political aspects, including the preparation and implementation of projects co-financed by the European Union's funds	The student is able to prepare and implement projects with defined scientific parameters in the field of commonly used physical methods in forensic science.	[SK1] oral statement/conversation/discussion
	[KRYMMU2_UW02 ] He/she acquires knowledge independently and develops his/her professional skills using various sources (in native and foreign language) and modern technologies	Can independently acquire knowledge and develop it, using a variety of sources e.g. literature of international literature	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report
	[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	The student is prepared to communicate on the application of physical methods in forensic science to both forensic and non-forensic professionals.	[SK1] oral statement/conversation/discussion
Subject contents	1. Regulations of the laboratory.2. Health and safety regulations.3. Safety data sheets for chemical reagents.4. The preparation of expertise:-dactyloscopic-shotgun traces-drugs -documents (substrate and covering materials).		
Prerequisites and co-requisites			

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		report	51.0%
Recommended reading	Basic literature	1. P.W. Atkins, Chemia fizyczna, Wydawnictwo Naukowe PWN, Warszawa 2007; 2. W. Szczepaniak - Metody instrumentalne w analizie chemicznej", PWN, Warszawa 1994; 3. Ekspertyza Sądowa, pod red. Józefa Wójcikiewicza, Kantor Wydawniczy Zakamycze, 2022.	
	Supplementary literature	Problems of Forensic Sciences (Z Zagadnień Nauk Forensic) is a journal published since 1960 (originally under the title Z Zagadnień Kryminalistyki). Selected issues related to the expertise performed in class. <a href="#">Problems of Forensic Sciences (Z Zagadnień Nauk Sądowych)</a>	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Revealing post-shooting metallic particles.		
Work placement	Not applicable		

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