University of Gdańsk

Subject card

Subject name and code	Physical methods of investigating traces of crimes - laboratory classes, PG_00132641						
Field of study	Criminology						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2027/2028			
Education level	Master's studies		Subject group	Optional subject group			
Mode of study	part-time studies		Mode of delivery	at the university			
Year of study	2		Language of instruction	Polish			
Semester of study	3		ECTS credits	3.0			
Learning profile	academic		Assessment form	credit			
Conducting unit	Faculty of Law and Administration -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Aneta Lewkowicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	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	60.0	75	
Subject objectives	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_K05] Is able to independently and critically complement knowledge and skills, extended by the interdisciplinary dimension	The student is able to independently and critically supplement their knowledge and improve their skills in the field of physical and physicochemical methods used for forensic analysis, taking into account interdisciplinary links with natural and legal sciences.	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[KRYMMU2_UW05] Has the ability to independently propose solutions to a specific problem and carry out a procedure to reach a decision on it	The student has the ability to independently propose solutions to specific problems related to the analysis of forensic evidence and the evaluation of evidence. They are able to carry out the procedure of identification, preservation and interpretation of evidence at the scene of the incident and provide a proposal for a forensic expert opinion, as well as formulate precise and substantive questions to the procedural authority, taking into account the applicable methodological standards and legal regulations.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU5] implementation of a problem task [SU8] observation of student's independent or team work
[KRYMMU2_UW01] I able to apply theoretical knowledge of criminology and related disciplines to analyse and interpret problems in criminology in a broad sense	The student is able to use theoretical knowledge in the field of criminology and related scientific disciplines (in particular physics, chemistry and biology) to analyse and interpret problems related to the identification, examination and evaluation of forensic evidence using physical and physicochemical methods in forensic laboratories and at crime scenes.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report [SU5] implementation of a problem task [SU8] observation of student's independent or team work

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), DNA.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
report	51.0%	100.0%

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, KantorWydawniczy Zakamycze, 2022.
Supplementary literature	J. Zięba - Palus - Ekspertyza fizykochemiczna. Eksperyza sądowa,Zagadnienia wybrane" pod redakcją J. Wójcikiewicza,Wolters Kluwer,Warszawa 2007;
eResources addresses	

Example issues/ example questions/ tasks being completed

Revealing post-shooting metallic particles.

Work placement

Not applicable

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