

Subject card

Subject name and code	Disclosure of traces and evidence of crime - biology - lecture, PG_00132523						
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	part-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	Faculty of Law and Administration -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Monika Badura				
	Teachers		dr hab. Monika Badura prof. dr hab. Joanna Izdebska dr hab. Marcin Górniak dr Marcelina Malinowska dr Marta Zakrzewska				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	10.0	0.0	0.0	0.0	0.0	10
	E-learning hours included: 0.0						
	Additional information: attendance of at least 80% of the course hours is a prerequisite for admission to the exam						
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	10		0.0		40.0	50
Subject objectives	To learn the principles and methods of detecting and preserving biological evidence.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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	is prepared to participate actively in groups, organisations and institutions related to criminology in its broadest sense, while being able to communicate with criminological and non-criminological specialists	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written
	[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	is ready to undertake and participate in the preparation of social projects, taking into account legal, economic and political aspects, including the preparation and implementation of projects co-financed by European Union funds	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written
	[KRYMMU2_UU03] The graduate demonstrates deepened skills of observing, diagnosing, sensible assessing of complex psychological situations and analyzing motives and patterns of human behaviours	is able to observe, diagnose and rationally assess complex psychological situations and analyse motives and patterns of human behaviour	[SU1] oral statement/conversation/discussion [SU4] 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	is able to acquire knowledge and develop professional skills independently, using a variety of sources (mother and foreign language) and modern technologies	[SU1] oral statement/conversation/discussion [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 propose solutions to a specific problem and carry out a procedure to resolve it	[SU1] oral statement/conversation/discussion [SU4] 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	has an in-depth knowledge of the nature of natural sciences related to the studied major and their place in the system of sciences and mutual relations	[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion
	[KRYMMU2_KK01] The graduate is aware of the level of his/her knowledge and skills, and also understands the need of lifelong learning	understands the need for lifelong learning and is aware of his/her level of knowledge and skills	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written
	[KRYMMU2_UW04] He/she can apply legal and professional principles and norms in taking up the activity of criminologist	is able to use legal as well as professional principles and norms in the the activities of a criminologist	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written
[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 and is aware of his/her level of knowledge and skills	[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written	
Subject contents	Definition and types of biological evidence. Basic methods of detection of the above traces. Micro-traces - disclosure, preservation, significance. Micro-traces most commonly found at crime scenes. Securing control material and collecting comparative material for examination - blood, hair, nails, secretions, saliva, semen, sweat. Examination of genetic material Genetic material - collection of comparison material, DNA testing methods. Botanical evidence - plants or plant fragments, pollen, wood, soil. Methods of collecting and securing material for botanical analysis from the crime scene and physical evidence. Methods of collecting and securing plant samples for DNA analysis. Methods of DNA analysis of traces of plant origin. Acaroentomological traces - methods of collecting, preserving and identifying mites, insects and other arthropods. Methods of visual inspection documentation and principles of protocol writing.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test - multiple choice, open questions	51.0%	100.0%

Recommended reading	Basic literature	<p>Branicki W., Kupiec T., Wolańska-Nowak P. 2008. Badania DNA dla celów sądowych. Wydawnictwo IES, Kraków.</p> <p>Coyle H.M. 2005. Forensic botany. Principles and applications to criminal casework. CRC Press LLC, Boca Raton, London, New York, Washington D.C.</p> <p>Coyle H.M., Lee C.-L., Lin W.-Y., Lee H.C., Palmbach T.M. 2005. Forensic botany: using plant evidence to aid in forensic death investigation. Croat. Med. J. 46: 606-612.</p> <p>Izdebska J.N., Jankowski Z. 2006. Demodex brevis and D. folliculorum (Demodecidae): specific human parasites. A comparative study of the effectiveness of diagnostic methods involving autopsy. [W:] Postępy Akarologii Polskiej, Gabryś G., Ignatowicz S. (red.). SGGW, Warszawa: 128- 136.</p> <p>Kaczorowska E., Draber-Mońko A. 2009. Wprowadzenie do entomologii sądowej. Wydawnictwo UG.</p> <p>Mildenhall D.C., Wiltshire P.E.J., Bryant V.M. 2006. Forensic palynology: Why do it and how it works. Forensic Sci. Internat. 163: 163-172.</p> <p>Pawłowski R. 1997. Medyczno-sądowe badanie śladów biologicznych. Kraków Zakamycze.</p> <p>Perotti A.M., Lee Goff M., Baker A.S., Turner B.D., Braig H.R. 2009. Forensic acarology: an introduction. Exp. Appl. Acarol. 49: 3-13.</p> <p>Solarz K. 2009. Indoor mites and forensic acarology. Exp. Appl. Acarol. 49:135-142.</p>
	Supplementary literature	Krantz G., Walter D. 2008. Manual of Acarology. Texas A & M University Press.
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

Document generated electronically. Does not require a seal or signature.