

Subject card

Subject name and code	Ballistics - auditorium classes, PG_00132536						
Field of study	Criminology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	postgraduate 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	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		1.0		
Learning profile	academic		Assessment form				
Conducting unit	Katedra Prawa Karnego Materialnego i Kryminologii -> Faculty of Law and Administration -> Rektor						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Adrian Wrocławski				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	5.0	0.0	0.0	0.0	5
	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	5		0.0		20.0	25
Subject objectives	Introduction to the legal and forensic issues of firearms and ammunition and the effects and traces of their use in the commission of crimes. To familiarise students with the possibility of using ballistics in evidence. To assimilate and make students understand general concepts related to firearms, ballistics and forensics. To know the basic legal regulations related to firearms and ammunition to be able to interpret and apply these regulations.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[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 and integrate theoretical knowledge of criminology and related disciplines, in particular forensic science, ballistics and forensic medicine in order to analyze and interpret problems related to criminology in a broad sense		[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written		
	[KRYMMU2_UW02] Is able to acquire knowledge and develop professional skills independently, using a variety of sources (native and foreign language) and modern technologies		Students are able to independently acquire knowledge and develop their professional skills, using a variety of sources (native and foreign language) and modern technologies to solve problems related to forensics, criminology and ballistics.		[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written		
	[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 is able to independently propose solutions to problems in the field of criminology, forensic science and ballistics, and also has the ability to carry out the correct procedure to obtain the solutions sought.		[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written		
	[KRYMMU2_K02] Responsibly prepares for his work, is able to prioritize his work and plan his work accordingly		The student is able to properly prepare for his work and make proper and effective planning.		[SK1] oral statement/conversation/discussion [SK4] test/exam - oral or written		

Subject contents	1. The concept of weapons and an outline of the history of their development 2. Forensic systematics of small arms 3. Construction of firearms 4. Ammunition and its classification 5. Ballistics (classical and chemical) 6. Forensic-weapons expertise (a) technical evaluation of firearms and ammunition (b) individual and group identification of firearms on the basis of traces left behind (c) determination of distance and direction of shots (d) identification of the shooter 7. Gunshot injuries 8. Securing firearms and ammunition and traces of their use for examination. 9. Firearms, bullets and shells casings files		
Prerequisites and co-requisites	No		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	51.0%	100.0%
Recommended reading	Basic literature	1. J. Widacki (red.), Kryminalistyka, Warszawa 2018 2. M. Kulicki, V. Kwiatkowska-Wójcikiewicz, L. Stęпка, Kryminalistyka, Toruń 2009 3. D.E. Carlucci, S.S. Jacobson, Ballistics, Theory and Design of Guns and Ammunition, Taylor & Francis Group ,2014 4. T. Marcinkowski, Medycyna sądowa dla prawników, Tom. I , Poznań 2000 5. J. Wójcikiewicz (red.), Ekspertyza sądowa. Zagadnienia wybrane, Warszawa 2007 6. M. Kulicki, J. Wnorowski, Ocena śladów strzałów z pobliza oddanych z 9 mm pistoletu maszynowego wzoru 1963 [w:] Zeszyty Naukowe Akademii Spraw Wewnętrznych, 1974, nr 4 7. M. Kulicki, J. Wnorowski, Wyrzut łusek przy strzałach z 9 mm pistoletu maszynowego wz. 1963, [w:] Zeszyty Naukowe Akademii Spraw Wewnętrznych, 1975, nr 8 8. M. Kulicki, Kryminalistyczne problemy użycia broni palnej : na przykładzie badań kbk AK, kal. 7,62 mm, Poznań 1972 9. L. Radziszewski, Balistyka końcowa pocisków małokalibrowych przy strzelaniu do wybranych celów. Kielce 2000	

	Supplementary literature	1. G.Leśniak, M. Pac: Badania teoretyczne i doświadczalne działania mechanizmów broni automatycznej z odprowadzeniem gazów, Warszawa 2017 2. Z.Brożek-Mucha, Balistyka chemiczna, Kraków 2008
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Familiarisation with the principles of the different types of firearms, Familiarisation with the forensic traces left by firearms, Solving basic ballistics tasks, Identifying medico-forensic traces of firearm use, Shooting range activities.	
Work placement	Not applicable	

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