

**Subject card**

<b>Subject name and code</b>	Biological basis of addiction - lecture, PG_00132607						
<b>Field of study</b>	Criminology						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2026/2027		
<b>Education level</b>	Master's 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>	1	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	2	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Laboratory of Neurobiology -> Department of Animal and Human Physiology -> Faculty of Biology -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Wojciech Glac				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	10.0	0.0	0.0	0.0	0.0	10
	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>	10		0.0		15.0	25
<b>Subject objectives</b>	understanding the mechanisms leading to pharmacological and behavioral addiction and the basis of individual differences in susceptibility to addiction; learning the properties, mechanisms of action and effects of the most popular addictive substances; ability to recognize addiction and symptoms of taking addictive substances, and the effects of addiction and psychoactive drugs on antisocial behavior.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>		<b>Method of verification</b>		
	[KRYMMU2_WG01] Has an in-depth knowledge of the nature of legal and related penal sciences, their place in the system of sciences and their interrelationships		Demonstrates advanced knowledge of addiction and its biological basis, as well as the effects of psychoactive substances on the human body, as part of a broader understanding of human nature and the biological foundations of behavior, including antisocial behavior.		[SW4] test/exam - oral or written [SW5] implementation of a problem task		
	[KRYMMU2_KK01] Is aware of the level of his knowledge and skills, and understands the need for lifelong learning		Is able to assess their own knowledge of the biological basis of addiction based on feedback and to identify directions for further development.		[SK1] oral statement/conversation/discussion [SK5] implementation of a problem task		
	[KRYMMU2_WG05] Has an in-depth knowledge of methods and tools, including data and information extraction techniques, specific to criminology and forensic science		Demonstrates knowledge of tools and techniques for acquiring knowledge and analyzing data related to the impact of addiction and psychoactive substances on human behavior, including in the context of criminology.		[SW4] test/exam - oral or written [SW5] implementation of a problem task		

Subject contents	<ul style="list-style-type: none"> <li>• the definitions of addiction;</li> <li>• psychological and physical addictions;</li> <li>• behavioral and pharmacological addictions;</li> <li>• neurobiological mechanism of addiction;</li> <li>• theories on the development of addiction;</li> <li>• mechanisms of action and effects of the main pharmacological groups of addictive drugs - stimulants, depressants and psychedelics - including: amphetamine, cocaine, caffeine, nicotine, alcohol, barbiturates, benzodiazepines, opioids, LSD, psilocybin, MDMA, ketamine, phencyclidine, cannabinoids and others;</li> <li>• individual differences in susceptibility to addiction and the effects of taking addictive substances;</li> <li>• effects of addiction and psychoactive drugs on antisocial behavior;</li> <li>• treatment of addiction</li> </ul>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	quizzes	51.0%	30.0%
	problem-based tasks / case studies	51.0%	50.0%
	discussions	51.0%	20.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> <li>• Bijak i Lasoń (red.), Neuropsychofarmakologia: dziś i jutro, Instytut Farmakologii Klinicznej PAN, Wydawnictwo Pałotyn, Kraków, 2000</li> <li>• Szukalski, Narkotyki kompendium wiedzy o środkach uzależniających, Instytut Psychiatrii i Neurologii, Warszawa, 2005</li> </ul>	
	Supplementary literature	<ul style="list-style-type: none"> <li>• Longstaff, Neurobiologia, PWN, Warszawa, 2002</li> <li>• articles in specialist scientific journals (provided by teacher)</li> </ul>	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<ul style="list-style-type: none"> <li>• test - indicate substances that are physically addictive (indicate all correct answers)</li> <li>• problem-based task - create a synthetic theory of addiction based on various theories</li> <li>• case study - based on the described story, indicate and justify what substances the described has taken, and why criminal behavior occurred</li> <li>• discussion - topic: therapeutic potential of psychedelics</li> </ul>		
Work placement	Not applicable		

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