

Subject card

Subject name and code	, PG_00154471						
Field of study	Biology						
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027	
Education level	undergraduate studies		Subject group			Optional subject group Subject group related to scientific research in the field of study	
Mode of study	full-time studies		Mode of delivery			at the university	
Year of study	3		Language of instruction			Polish	
Semester of study	6		ECTS credits			2.0	
Learning profile	academic		Assessment form				
Conducting unit	Pracownia Neurobiologii -> Katedra Fizjologii Zwierząt i Człowieka -> Faculty of Biology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Wojciech Glac				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
	Additional information: The course is based on gamification system (the structure are based on game mechanics, elements and plot), in which student, by systematically performing various types of tasks and obtaining points, makes progress in the game, which, in accordance with the given criteria, translates into the possibility of obtaining a given final grade (without having to participate in an exam or colloquium).						
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	30		4.0		16.0	50
Subject objectives	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						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLL3_K04] The graduate is ready to take responsibility for their own work and to follow the rules of teamwork and responsibility for shared tasks	is able to organize the work of a small team and demonstrates the ability to effectively work in a team to solve a problem related to addiction (B_K04)	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
	[BIOLL3_U09] The graduate will be able to prepare well-documented written work on selected biological problems	can prepare a well-documented issue on the neurobiological basis of addiction and addiction prevention (B_U09)	[SU3] text preparation/written work [SU5] implementation of a problem task
	[BIOLL3_U05] The graduate will be able to synthesise data from a variety of sources and draw appropriate conclusions	synthesizes data from various sources in order to determine the degree of harmfulness, addictive potential of substances and the individual's susceptibility to developing addiction (B_U05)	[SU5] implementation of a problem task
Subject contents	[BIOLL3_W04] The graduate is conversant with the course of physiological processes and their relationship to the adaptation of the organism to changing environmental conditions	understands the physiological processes occurring in response to the intake (administration) of various types of addictive substances and their relationship with the addiction process and understands the neural mechanism of addiction (B_W04)	[SW4] test/exam - oral or written [SW3] text preparation/written work [SW5] implementation of a problem task
	- the definitions of addiction; - psychological and physical addictions; - behavioral and pharmacological addictions; - neurobiological mechanism of addiction; - theories on the development of addiction; - 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; - individual differences in susceptibility to addiction and the effects of taking addictive substances; - treatment of addiction		
	Prerequisites and co-requisites		
	basic knowledge about the structure and functioning of the central nervous system		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	problem-based tasks	51.0%	40.0%
	discussion	51.0%	10.0%
	case study	51.0%	20.0%
Recommended reading	quizzes	51.0%	30.0%
	Basic literature	- Bijak i Lason (red.), Neuropsychofarmakologia: dzis i jutro, Instytut Farmakologii Klinicznej PAN, Wydawnictwo Pano-tyn, Krakow, 2000 - Szukalski, Narkotyki kompendium wiedzy o srodkach uzalezniajacych, Instytut Psychiatrii i Neurologii, Warszawa, 2005 - Longstaff, Neurobiologia, PWN, Warszawa, 2002	
	Supplementary literature	articles in specialist scientific journals (provided by teacher)	
	eResources addresses	Adresy na platformie eNauczanie:	

Example issues/ example questions/ tasks being completed	• test - indicate substances that are physically addictive (indicate all correct answers) • problem work - create a synthetic theory of addiction based on various theories • case study - based on the described story, indicate and justify what substances the described has taken, and why fatal overdose occurred
Work placement	Not applicable

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