

Subject card

Subject name and code	Neurodiversity, PG_00179259						
Field of study	Biology						
Date of commencement of studies	October 2024		Academic year of realisation of subject				
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		e-learning		
Year of study	3		Language of instruction		Polish Polish		
Semester of study	6		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Neurobiology -> Department of Animal and Human Physiology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Wojciech Glac				
	Teachers		dr Wojciech Glac				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 30.0						
	Additional information: Course completion is based on the accumulation of points from partial tests (covering specific topics and conducted periodically throughout the course) and a final test (covering the entire course content and administered after the completion of lectures). Both the partial tests and the final test allow students to earn up to 100 points each (200 points total). To pass the course, a minimum of 51 points is required.						
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		0.0		20.0	50
Subject objectives	The aim of the course is to provide students with knowledge about the neuropsychological basis of interindividual and sex-related differences in cognitive, emotional, and social functioning.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
			has knowledge of the neurobiological and neuropsychological basis of inter-individual and inter-gender variability and understands the causes of neurodiversity, and is able to indicate a pro-social attitude towards people with different characteristics of neurobiopsychological functioning		[SW4] test/exam - oral or written [SU4] test/exam - oral or written [SK4] test/exam - oral or written		

Subject contents	The lecture presents the current state of knowledge in the fields of neurobiology and related sciences concerning the foundations of various manifestations of neurodiversity. It explores the neurobiological basis of interindividual variability in brain structure and function, which underlies individual differences in emotional, cognitive, and social functioning, as well as in distinct personality traits. The course discusses manifestations of neurodiversity in processes such as perception, biological rhythms, learning and memory, attention, motivation, empathy, theory of mind, and creativity, among others. It also addresses individual differences in the functioning of large-scale brain networks and the resulting diverse patterns of psychological functioning and behavior. Areas of inter-individual variation discussed during the course: • emotional reactivity and sensitivity • stress reactivity and sensitivity • stress coping / resilience • sensory sensitivity and processing • autism spectrum disorder • anxiety and susceptibility to fear conditioning • novelty/sensation seeking • functioning of attention processes • functioning of the empathy and mentalization networks (theory of mind) • prosocial and antisocial behavior • development of cognitive functions • biological and psychological gender														
Prerequisites and co-requisites															
Assessment methods and criteria	<table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>partial knowledge tests consisting of multiple-choice questions</td><td>51.0%</td><td>50.0%</td></tr><tr><td>final test covering the entire course content, consisting of both open-ended and multiple-choice questions</td><td>51.0%</td><td>50.0%</td></tr></table>	Subject passing criteria	Passing threshold	Percentage of the final grade	partial knowledge tests consisting of multiple-choice questions	51.0%	50.0%	final test covering the entire course content, consisting of both open-ended and multiple-choice questions	51.0%	50.0%					
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Recommended reading	<table><tr><td>Basic literature</td><td>Longstaff, A. (2020). <i>Neurobiologia</i>. Wydawnictwo Naukowe PWN.</td></tr><tr><td></td><td>Strelau, J. (2006). <i>Psychologia różnic indywidualnych</i>. Wydawnictwo Naukowe Scholar.</td></tr><tr><td>Supplementary literature</td><td>Canli, T. (Ed.). (2006). <i>Biology of Personality and Individual Differences</i>. Guilford Press.</td></tr><tr><td></td><td>Matthews, G., Deary, I. J., & Whiteman, M. C. (2015). <i>Personality Traits</i> (4th ed.). Cambridge University Press.</td></tr><tr><td></td><td>Armstrong, T. (2010). <i>Neurodiversity: Discovering the Extraordinary Gifts of Autism, ADHD, Dyslexia, and Other Brain Differences</i>. Da Capo Press.</td></tr><tr><td>eResources addresses</td><td></td></tr></table>	Basic literature	Longstaff, A. (2020). <i>Neurobiologia</i> . Wydawnictwo Naukowe PWN.		Strelau, J. (2006). <i>Psychologia różnic indywidualnych</i> . Wydawnictwo Naukowe Scholar.	Supplementary literature	Canli, T. (Ed.). (2006). <i>Biology of Personality and Individual Differences</i> . Guilford Press.		Matthews, G., Deary, I. J., & Whiteman, M. C. (2015). <i>Personality Traits</i> (4th ed.). Cambridge University Press.		Armstrong, T. (2010). <i>Neurodiversity: Discovering the Extraordinary Gifts of Autism, ADHD, Dyslexia, and Other Brain Differences</i> . Da Capo Press.	eResources addresses			
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Example issues/ example questions/ tasks being completed	Sample multiple-choice question: Indicate the brain structures whose functioning differs in individuals located at the opposite ends of the autism spectrum. Sample open-ended question: Briefly characterize the neuropsychological basis of interindividual differences in empathy.														
Work placement	Not applicable														

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