

Subject card

Subject name and code	Neurodietetics, PG_00154723						
Field of study	Neurodietetyka (Ćw. audytoryjne)						
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026	
Education level	Master's studies		Subject group			Obligatory subject group in the field of study Optional subject group	
Mode of study	full-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			credit	
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Ziemowit Ciepielewski				
	Teachers		dr Ziemowit Ciepielewski				
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						
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		5.0		15.0	50
Subject objectives	1. Familiarising students with the neurobiological and neurohormonal basis of nutritional issues 2. Understanding the processes of communication and information flow between the nervous and digestive systems and how they are regulated for the proper development and functioning of the human body. 3. Determining the role of receptor and neurohormonal systems in shaping behaviours related to food intake 4. Learning about the effects of selected psychoactive substances on food intake 5. The impact of food additives on neurotransmission 6. The impact of diet on cognitive functions						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BIOLMU2_U07] the graduate is able to critically confront biological information from a variety of sources and, on this basis, draw valid conclusions	the graduate verifies the information	[SU1] wypowiedź ustna/rozmowa/ dyskusja [SU2] prezentacja/projekt/referat/ raport
	[BIOLMU2_W01] the graduate has an in-depth knowledge and understanding of natural phenomena and processes at different levels of complexity	The graduate knows and understands the basis of the processes and mechanisms underlying the functioning of the digestive, endocrine and nervous systems in the field of dietetics.	[SW4] test/egzamin - ustny lub pisemny
	[BIOLMU2_U01] the graduate is able to select and apply research techniques and tools appropriate to the problems of the biological sciences specialisation studied	graduates are familiar with research methods used in nutritional sciences	[SU2] prezentacja/projekt/referat/ raport
	[BIOLMU2_W04] the graduate has an in-depth knowledge of the chosen specialisation in the biological sciences	graduates are proficient in the field of nutrition	[SW4] test/egzamin - ustny lub pisemny
	[BIOLMU2_W05] the graduate understands the dynamic development of the biological sciences and is familiar with new research directions and disciplines	graduates are well versed in the latest trends in food and nutrition sciences	[SW4] test/egzamin - ustny lub pisemny
	[BIOLMU2_W03] the graduate has an in-depth knowledge and understanding of research problems at the frontiers of biological sciences that require the use of advanced tools	The graduate knows and understands issues in interdisciplinary sciences, including neuroendocrinology, dietetics, psychoneuroendocrinology and biomedical nutritional sciences	[SW4] test/egzamin - ustny lub pisemny
	[BIOLMU2_U02] the graduate is able to make proficient use of the scientific literature of the biological speciality studied	the graduate utilises scientific literature in the field of dietetics	[SU2] prezentacja/projekt/referat/ raport [SU4] test/egzamin - ustny lub pisemny
	[BIOLMU2_K05] the graduate is prepared to use recognised sources of scientific and popular information in the biological sciences to further his or her knowledge	graduates use scientific information sources and scientific databases	[SK1] wypowiedź ustna/rozmowa/ dyskusja [SK2] prezentacja/projekt/referat/ raport
	[BIOLMU2_K01] the graduate shows initiative and is ready to act independently and feels the need for lifelong learning	the graduate works independently	[SK1] wypowiedź ustna/rozmowa/ dyskusja [SK2] prezentacja/projekt/referat/ raport
Subject contents	Anatomy and innervation of the digestive system. Neurohormonal systems (axes) influencing feeding behaviour. The brain-gut axis. The influence of various dietary components, such as macro- and micronutrients, vitamins, proteins, carbohydrates, fats, dietary supplements, synthetic hormones, and food additives on neurotransmission, neurochemistry, behaviour, and cognitive functions. Ways in which nutritional dysfunctions and disorders can lead to neurological symptoms, including pain, cognitive dysfunction, paraesthesia, gastrointestinal disorders, memory loss, inattention, impulsivity, and central fatigue; as well as psychological symptoms such as depression, anxiety, post-traumatic stress disorder, and difficulty concentrating.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	75.0%
		51.0%	25.0%

Recommended reading	Basic literature	A. Literature required for final course completion (passing the examination): A.1. used during classes J. Mann & S.Truswell Essentials of human nutrition, Oxford Press, 5th edition, 2017 Talitha Best, Louise Dye Nutrition for Brain Health and Cognitive Performance 1st Edition CRC Press, 2015 ISBN 9781466570023 Ruth Leyse-Wallace Nutrition and Mental Health 1st Edition CRC Press, 2013 ISBN 9781439863350 A.2. Studied independently by the student. Publications provided by the course instructor. B. Supplementary reading: academic articles in Polish and English recommended by the course instructors.
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	eResources addresses	
Example issues/ example questions/ tasks being completed	1. Brain diet 2. Eating disorders: bulimia, anorexia, orthorexia, etc. 3. Neurohormonal basis of food intake 4. Neuropsychiatric aspects of obesity	
Work placement	Not applicable	

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