

关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

Subject card

Subject name and code	Basis of Human Nutrition, PG_00054710								
Field of study	Biotechnology								
Date of commencement of studies	October 2022		Academic year of realisation of subject		2023/2024				
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study 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	2		Language of instruction			Polish			
Semester of study	4		ECTS credits		2.0				
Learning profile	general academic profile		Assessme	nt form		assessment			
Conducting unit	Department of Chemistry, Technology and Biochemistry of Food -> Faculty of Chemistry								
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Agnieszka Bartoszek-Pączkowska						
	Teachers		prof. dr hab. inż. Agnieszka Bartoszek-Pączkowska						
			dr inż. Szymon Mania						
			dr hab. inż. Dorota Martysiak-Żurowska						
			dr inż. Izabela Koss-Mikołajczyk						
		Lecture	Tutorial	Laboratory	Draiaa	Project Seminar		SUM	
Lesson types and methods of instruction	Lesson type Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation ir classes include plan				Self-study		SUM		
	Number of study hours	30		2.0		18.0		50	
Subject objectives	Lectures on Basics of definitions concernine nutritional norms that belong. The role of f	ig food and its i t must be know	mpact on huma n to food produ	an organism. Ť icers, to whom	he empl	nasis is tes of b	placed on pa	arameters and	

Learning outcomes	Course outcome	Subject outcome	Method of verification				
	K6_W09	Students knows how the sensory assessment of foods is performed. Student learns how the digestibility of foods id assessed. Student learns how to extract and to assess the quality of fats isolated from foodstuffs. Student knows a method of food antioxidant activity assessment.	[SW1] Assessment of factual knowledge				
	K6_W05	Student understands what role plays food and nutrition in the development and prevention of diseases as well as in the proper development of newborns and infants. Student has the knowledge on future foods such as e.g. food for space flights.	[SW1] Assessment of factual knowledge				
	K6_U01	Student learns about basic terms and definitions applied in food and nutrition sciences. Student understands the significance of nutritional norms and their practical applications.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject				
	K6_U09	Student learns about food significance for wellbeing in the evolutionary context and understands the importance of individual food components for organism's function. Student recognises basic mechanisms of food digestion and utilisation of food components in human organism.	[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject				
Subject contents	Basic definitions applied in the food	and nutrition sciences.					
	Nutritional and toxicological norms. The significance of nutrition in the development and prevention of diseases as well as in the proper development of newborns and infants. The methodology of sensory analysis taking alcohol free beer as an example. The observation of nutrients release from food products in the presence and absence of digesting enzymes. Isolation and quality assessment of fats isolated from foodstuffs. The determination of antioxidant for selected food items by FRAP test.						
Prerequisites and co-requisites	The basic competence in chemistry, in particular in the area of thermodynamics and chemical analysis. The acquaintance of basic laboratory skills.						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Lecture - written exam	50.0%	70.0%				
	Laboratory - entry test and report	50.0%	30.0%				
Recommended reading	Basic literature	"Żywienie człowieka" Tom 1. Podstawy Nauki o Żywieniu, pod redakcją Jana Gawędzkiego, PWN 2022. "Norma Żywienia dla Populacji Polski i ich zastosowanie" pod redakcją Mirosława Jarosza, Ewy Rychlik, Katarzyny Stoś, i Jadwigi Charzewskiej, Narodowego Instytutu Zdrowia Publicznego Państwowego Zakładu Higieny (NIZP-PZH), 2020					
	Supplementary literature	Scientific literature on the subject.					
	eResources addresses	Adresy na platformie eNauczanie: Podstawy Żywienia Człowieka - Moodle ID: 37632 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37632					
Data wydruku: 19.04.202	4 01:42		Strona 2 z 3				

Example issues/ example questions/ tasks being completed	What is a nutrient by definition.
	On what depends the protein requirement according to nutritional norms.
	What the names probiotics and probiotics describe? Discuss their role in nutrition.
	Discuss the major recommendations in newborns' nutrition.
	How it is performed and what is the aim of sensory analysis of foodstuffs?
Work placement	Not applicable