

关。GDAŃSK UNIVERSITY 多 OF TECHNOLOGY

Subject card

Subject name and code	PRODUCT QUALITY, PG_00044767								
Field of study	Engineering Management								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/	2021/2022		
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	at the university		
Year of study	2		Language of instruction			Polish	Polish		
Semester of study	4		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Faculty of Management and Economics								
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Maria Szpakowska							
	Teachers		prof. dr hab. inż. Maria Szpakowska						
			mgr Anna Wendt						
			dr inż. Ewa Marjańska						
			-						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	E-learning hours included: 0.0								
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18115 Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	Participation i classes incluc plan				Self-study		SUM	
	Number of study hours	60		6.0		34.0		100	
Subject objectives	Introduction to methods of quality assessment of selected products. Quality self-assessment of selected products.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W07] knows the basic conditions concerning norms and standards covering particular areas of the organization's functioning, including in particular those concerning technical resources and processes		Student definies basic commodity science ideas and analyses different norms			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_W11] has the basic knowledge of mathematics, physics and chemistry necessary to solve technical problems		Student combines the knowledge from chemistry, physics, commodity science and economy			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro- environmental aspects, as well as safety of work processes		Student estimates quality of selected goods			[SU4] Assessment of ability to use methods and tools			

Subject contents	LECTURE: Kind of commodity science and its history; Commodity, product, goods; Classification and methodology of commodities; Principles of commodity coding; Polish code and code systems in other countries; Principle of consumer and forwarding units; Quality, quality features and types good control; Factors influencing quality; Quality measure; Qualitometry; Task and aims of consumer organizations; Organisation, aims and tasks of normalization; Polish, plant and european norms; Norm hrmonization; Quality assessment of goods and food products by organoleptic methods; Certification in UE and in Poland; Quality systems and HACCP; Packaging as integral part of goods; Rules of labeling; Transport of goods; Storage of goods; Properties of selected goods.						
Prerequisites and co-requisites	Knowledge from the course: Applied Chemistry						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Practical exercise	60.0%	60.0%				
	Written exam						
Recommended reading	Basic literature Supplementary literature	 60.0% 40.0% 1) M. Szpakowska, E. Marjańska, E. Brodnicka, W. Szpakowski, Badania jakości wybranych produktów, Wydawnictwo PG, Gdańsk 2020; 2) P. Grudowski, M. Szpakowska, E. Brodnicka, E. Marjańska, Z. Celmerowski, Wybrane aspekty zarządzania jakością i towaroznawstwa żywności, Wydawnictwo Difin, Warszawa, 2016; 3) M. Wiśniewska, E. Malinowska, Zarządzanie jakością żywności. Systemy, Koncepcje, Instrumenty, Wydawnictwo Difin, Warszawa, 2011; 1) W. Kubiński, M. Niekurzak, E. Kubińska-Jabcoń, Badanie towarów spożywczych, Wydawnictwo PWN, Warszawa, 2018 2) R. Cierpiszewski, Opakowania aktywne i inteligentne, Wydawnictwo UEP, Poznań, 2016. 3) M. Małecka, B. Pachołek, Ocena jakości wybranych produktów spożywczych i wody, AE Poznań, 2001. 					
Evenerale income (eResources addresses						
Example issues/ example questions/ tasks being completed	 Physicochemical properties of selected metals, alloys, gemstones pH and acidity of soil Water content in selected fatty products Quality of selected fermentation industry products Paper packages, quality and classification of paper products 						
	Not applicable						