



## Subject card

Subject name and code	PRODUCT QUALITY, PG_00061482						
Field of study	Engineering Management						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2026/2027		
Education level	first-cycle studies		Subject group		Optional subject group		
Mode of study	Part-time studies (on-line)		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ewa Marjańska				
	Teachers		dr inż. Ewa Marjańska				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	16.0	0.0	0.0	24
	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	24		5.0		46.0	75
Subject objectives	Interprets analytical methods used in testing the quality of various types of products by conducting laboratory tests						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K03] demonstrates the ability to think critically and analytically and integrates knowledge from many disciplines in order to make effective decisions		conducts experiments, critically evaluating results, combining knowledge from many disciplines		[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U06] acquires new knowledge by planning own development conducive to achieving the set goals		extends advanced knowledge in the field of study with new areas of laboratory qualitative research		[SU3] Assessment of ability to use knowledge gained from the subject		

Subject contents	LECTURE Types of commodity science and its history Commodity, product, good Classification and systematics of goods Goods coding rules Polish codes and code systems in other countries Consumer and shipping unit coding rules Quality, quality characteristics and types of goods control Factors affecting quality Measuring quality, qualimetry Tasks and goals of consumer organizations Organization, goals, tasks of standardization Polish, factory and European standards Harmonization of standards Testing and evaluation of the quality of food products by organoleptic methods Certification in the EU and in Poland Quality assurance and HACCP systems Packaging as an integral part of the goods Labeling rules Transportation of goods Storage of goods Selected goods properties LABORATORY Study of selected physicochemical properties of some metals, alloys and precious Stones Testing the acidity of selected products Examination of water content in selected fat products Determination of the quality of selected fermentation, dairy and bread industry products Quality assessment and classification of paper products		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Practical exercises	60.0%	60.0%
	Lecture test	60.0%	40.0%
Recommended reading	Basic literature	M. Szpakowska, E. Marjańska, E. Brodnicka, W. Szpakowski, Badania jakości wybranych produktów, Wydawnictwo PG, Gdańsk 2020 P. Grudowski, M. Szpakowska, E. Brodnicka, E. Marjańska, Z. Celmerowski, Wybrane aspekty zarządzania jakością i towaroznawstwa żywności, Wydawnictwo Difin, Warszawa, 2016 M. Wiśniewska, E. Malinowska, Zarządzanie jakością żywności. Systemy, Koncepcje, Instrumenty, Wydawnictwo Difin, Warszawa, 2011	
	Supplementary literature	W. Kubiński, M. Niekurzak, E. Kubińska-Jabcoń, Badanie towarów spożywczych, Wydawnictwo PWN, Warszawa, 2018 R. Cierpiszewski, Opakowania aktywne i inteligentne, Wydawnictwo UEP, Poznań, 2016 3) M. Małecka, B. Pacholek, Ocena jakości wybranych produktów spożywczych i wody, AE Poznań, 2001	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Physicochemical properties of some metals, alloys and precious Stones Reaction and acidity of the soil Water content in selected fat products Quality of selected fermentation industry products Paper packaging, quality and classification of paper products		
Work placement	Not applicable		

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