

## Subject card

Subject name and code	PRODUCT QUALITY, PG_00044281							
Field of study	Engineering Management							
Date of commencement of studies	October 2020		Academic year of realisation of subject			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	Part-time studies		Mode of delivery			at the university		
Year of study	2		Language of instruction			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	Subject supervisor	prof. dr hab. inż. Maria Szpakowska						
of lecturer (lecturers)			dr inż. Ewa Marjańska					
			mgr Anna Wendt					
			prof. dr hab. inż. Maria Szpakowska					
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Lesson types and methods of instruction	Lesson type Number of study	Lecture 16.0	Tutorial 0.0	Laboratory 16.0	Project	et .	Seminar 0.0	SUM 32
of instruction	hours	10.0	0.0	10.0	0.0		0.0	52
	E-learning hours included: 0.0							
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18114 Adresy na platformie eNauczanie:							
Learning activity and number of study hours	Learning activity	Participation i classes including plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	32		6.0		62.0		100
Subject objectives	Getting to know the methods of testing the quality of selected products. Self-assessment of the quality 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		Defines basic commodity concepts and analyzes various norms			[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		Wyniki tłumaczenia Assesses the quality of selected goods			[SU4] Assessment of ability to use methods and tools		
	[K6_W11] has the basic knowledge of mathematics, physics and chemistry necessary to solve technical problems		combines knowledge in the field of chemistry, physics, commodity science and economics;			[SW3] Assessment of knowledge contained in written work and projects		

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Subject contents							
LECTURE: Types of commodity science and its systematization of goods; Commodity coding ru Coding rules for consumer and shipping units; (Factors influencing the quality; Quality measure organizations; Organization, goals, tasks of stal Harmonization of standards; Testing and asses Certification in the EU and Poland; Quality assuth e goods; Labeling rules; Transportation of got LABORATORY: Examination of selected physistones; Testing the acidity of selected products Determination of the quality of selected products	LECTURE: Types of commodity science and its history; Commodity, product, good; Classification and systematization of goods; Commodity coding rules; Polish codes and code systems in other countries; Coding rules for consumer and shipping units; Quality quality characteristics and types of goods inspection; Factors influencing the quality; Quality measurement, qualitometry; Tasks and goals of consumer organizations; Organization, goals, tasks of standardization; Polish, factory and European standards; Harmonization of standards; Testing and assessing the quality of food products using organoleptic methods; Certification in the EU and Poland; Quality assurance systems and HACCP; Packaging as an integral part of the goods; Labeling rules; Transportation of goods; Storage of goods; Selected properties of goods. LABORATORY: Examination of selected physicochemical properties of some metals, alloys and precious stones; Testing the acidity of selected products; Testing the water content in selected fat products; Determination of the quality of selected products of the fermentation industry, dairy products and bread; Quality evaluation and classification of paper products;						
Prerequisites							
and co-requisites							
Knowledge of the subject: Applied Chemistry	Knowledge of the subject: Applied Chemistry						
	Passing threshold Percentage of the final grade						
and criteria Written exam 60.0%	40.0%						
Exercises 60.0%	60.0%						
Badania ja 2020;  2) P. Gruc Celmerow towarozna  3) M. Wiś	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,						
Supplementary literature							
1) W. Kub spożywcz	oiński, M. Niekurzak, E. Kubińska-Jabcoń, Badanie towarów cych, Wydawnictwo PWN, Warszawa, 2018						
	piszewski, Opakowania aktywne i inteligentne, Wydawnictwo nań, 2016.						
	ecka, B. Pachołek, Ocena jakości wybranych produktów cych i wody, AE Poznań, 2001.						
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eResources addresses							
eResources addresses  Example issues/ example questions/ tasks being completed	· · · · · · · · · · · · · · · · · · ·						

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