

Subject card

Subject name and code	PRODUCT QUALITY, PG_00044281							
Field of study	Engineering Management							
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	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					essessment		
Conducting unit	Katedra Inżynierii Zar	ządzania i Jak	ości -> Faculty	of Manageme	nt and E	conom	ics	
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Elwira Brodnicka					
	Teachers		dr inż. Elwira Brodnicka					
			prof. dr hab. inż. Maria Szpakowska			ı		
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
of instruction	Number of study hours	16.0	0.0	16.0	0.0		0.0	32
	E-learning hours inclu	ided: 0.0						
Learning activity and number of study hours	Learning activity Participation in classes including plan					Self-study SUN		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_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_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					[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					[SW3] Assessment of knowledge contained in written work and projects		

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Subject contents	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;						
Prerequisites and co-requisites	Knowledge of the subject: Applied	Chemistry					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	written tests	60.0%	35.0%				
3.13	tests	60.0%	35.0%				
	raport	60.0%	30.0%				
Recommended reading	Basic literature	Praca zbiorowa pod redakcją Laboratorium z towaroznawstwa wybranych artykułów spożywczych i nieżywnościowych, wydanie drugie rozszerzone, Gdańsk 2007, W. Nalepa, Towaroznawstwo artykuły przemysłowe, PWE Warszawa, 1986; A. Korzeniowski, Towaroznawstwo artykułów przemysłowych, Badanie jakości wyrobów, część I, AE Poznań, 1999; M. Małecka, B. Pachołek, Ocena jakości wybranych produktów spożywczych i wody, AE Poznań, 2001.					
	Supplementary literature	H. Całus, Podstawy obliczeń chemicznych, Wydawnictwa Naukowo- Techniczne, Warszawa 1987					
	eResources addresses		sy na platformie eNauczanie: ść Produktu_NST - Moodle ID: 36612 ://enauczanie.pg.edu.pl/moodle/course/view.php?id=36612				
Example issues/							
example questions/ tasks being completed							

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