



## Subject card

Subject name and code	PRODUCT QUALITY, PG_00061373						
Field of study	Engineering Management						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2027/2028		
Education level	first-cycle studies		Subject group		Optional subject group		
Mode of study	Full-time studies		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	Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ewa Marjańska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	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	45		5.0		25.0	75
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_K03] demonstrates the ability to think critically and analytically and integrates knowledge from many disciplines in order to make effective decisions		The student analyzes complex problems using knowledge from different areas and proposes solutions taking into account technical, organizational and social considerations.		[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		The student develops an individual development plan taking into account the analysis of strengths and weaknesses and expectations of the labor market		[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task		
Subject contents	<p><b>LECTURE:</b> 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, qualitemetry; 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.</p> <p><b>LABORATORY:</b> 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;</p>						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Mini projects	60.0%	20.0%
	Presentations	60.0%	25.0%
	Laboratory reports	60.0%	15.0%
	Activity in classes	60.0%	10.0%
	Exam	60.0%	30.0%
Recommended reading	Basic literature	1. Praca zbiorowa pod redakcją Laboratorium z towaroznawstwa wybranych artykułów spożywczych i nieżywnościowych, wydanie drugie rozszerzone, Gdańsk 2007, 2. W. Nalepa , Towaroznawstwo artykuły przemysłowe, PWE Warszawa, 1986; 3. A. Korzeniowski, Towaroznawstwo artykułów przemysłowych, Badanie jakości wyrobów, część I, AE Poznań, 1999; 4. M. Małecka, B. Pacholek, Ocena jakości wybranych produktów spożywczych i wody, AE Poznań, 2001.	
	Supplementary literature	H. Całus, Podstawy obliczeń chemicznych, Wydawnictwa Naukowo-Techniczne, Warszawa 1987	
	eResources addresses	Adresy na platformie eNauczanie:	
	Example issues/ example questions/ tasks being completed		
Work placement	Not applicable		

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