

Subject card

Subject name and code	PRODUCT QUALITY, PG_00044767								
Field of study	Engineering Management								
Date of commencement of studies	October 2021		Academic year of realisation of subject			2022/2023			
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 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	Department of Quality Management and Commodity Science -> Faculty of Management and Economics								
Name and surname	Subject supervisor		prof. dr hab. inż. Maria Szpakowska						
of lecturer (lecturers)	Teachers		dr inż. Ewa Marjańska						
			mgr Anna Wendt						
			prof. dr hab. inż. Maria Szpakowska						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	et	Seminar	SUM	
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		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_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			
	[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_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			

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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. LABOARTORY: Investigation of selected physicochemical properties of metals, alloys and precious stones; Investigation of acidity of selected products; Determination of water amount in selected lipid products; Quality assessment of selected fermentation products, dairy produce and bread-stuffs; Quality assessment and classification of paper 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	Written exam	60.0%	40.0%			
	Practical exercise	60.0%	60.0%			
Recommended reading	Supplementary literature eResources addresses	 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. H. Całus, Podstawy obliczeń chemicznych, Wydawnictwa Naukowo-Techniczne, Warszawa 1987 Adresy na platformie eNauczanie: Jakość Produktu STAC. 2022/23 - Moodle ID: 26314 				
	https://enauczanie.pg.edu.pl/moo		dle/course/view.php?id=26314			
Example issues/ example questions/ tasks being completed	Physicochemical properties of selected metals, alloys, gemstones Physicochemical properties of selected metals, alloys, gemstones Physicochemical properties of selected metals, alloys, gemstones					
	3. Water content in selected fatty products					
	4. Quality of selected fermentation industry products 5. Paper packages, quality and classification of paper products					
Work placement	Not applicable	Not applicable				

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