



Subject card

Subject name and code	Quality management and production engineering, PG_00061927						
Field of study	Materials Engineering						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2026/2027		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study Humanistic-social 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		1.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Polymer Technology -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Łukasz Piszczyk				
	Teachers		dr hab. inż. Łukasz Piszczyk				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=7942						
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	15		2.0		8.0	25
Subject objectives	The objectives of the course are: - to familiarize students with the fundamentals of quality management and production engineering. - to introduce production processes - to discuss methods of quality control, safety, and sustainable production.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K02] Can think and act creatively and entrepreneurially, is able to negotiate, work in a team, assuming different roles.		The student is able to work in a team while taking on various roles.		[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work		
	[K6_U12] Can apply the knowledge of humanities, social sciences or economics to problem solving.		The student solves problems by applying knowledge from the humanities, social sciences, and economics.		[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W09] Has general knowledge of humanities, social or economic sciences, covering their basics and applications.		The student has a basic understanding of the humanities, social sciences, and economics.		[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	[K6_W10] Has base knowledge of management, including quality management and running a business.		The student has a basic understanding of quality management in manufacturing.		[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		

Subject contents	Course content – lecture Course content: concepts of quality and quality management, organisation of production processes, basic quality systems, production planning and control, quality control tools and techniques, standardisation and certification systems, health and safety in production processes, principles of sustainable production, and the environmental impact of production processes,		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Pass	50.0%	100.0%
Recommended reading	Basic literature	1. PN-EN ISO 9001 Systemy zarządzania jakością. 2. Hamrol A., <i>Zarządzanie jakością z przykładami</i> .	
	Supplementary literature	Ashby M., Jones D., <i>Materiały inżynierskie</i> .	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Explain the concept of quality in industrial production. 2. Discuss quality control methods, 3. Explain the concept of continuous process improvement. 4. Discuss workplace safety guidelines		
Practical activities within the subject	Not applicable		

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