



## Subject card

Subject name and code	Production Quality Management, PG_00067378						
Field of study	Engineering Management						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
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		exam		
Conducting unit	Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskie]						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	45.0	0.0	0.0	0.0	60
	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	60		5.0		35.0	100
Subject objectives	Uses modern methods of designing production quality assurance systems, taking into account economic and environmental criteria						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W04] possesses advanced knowledge of the principles of creative and entrepreneurial activity, enabling the identification and implementation of innovative ideas while ensuring compliance with copyright protection requirements.		understands how to integrate innovation-oriented approaches with quality requirements in production processes, while respecting intellectual property principles and industry standards		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U05] designs innovative solutions for complex management processes by utilizing appropriate methods and techniques.		is able to develop and implement improvements in the quality of production processes, selecting methods appropriate to the nature of the problem and the operational context of the enterprise		[SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task		
	[K6_K02] is prepared to make competent and ethical decisions to create and maintain economic, social, and environmental values, demonstrating entrepreneurial actions.		is able to make informed decisions aimed at improving production quality, considering their impact on operational efficiency, social context, and environmental factors		[SK5] Assessment of ability to solve problems that arise in practice		

Subject contents	LECTURE Quality definitions Development of quality management Quality of products and services Quality determinants and their level of importance CSI and ESI index; QFD method and quality house Tools of the classic seven of quality New quality seven tools Normalization on the example of ISO 9000 ISO 14000 Environmental Management System; ISO 18000; HACCP and ISO 22000 Quality management concepts by E. Deming, J. Juran, Ph. Crosby Models of Excellence Quality costs TUTORIAL Identification of features of products and services Examples of quality determinants in products and services Calculation of the level of customer and employee satisfaction using the CSI and ESI indexes Quality cottage construction Use of cause and effect tools The use of the tools of the classic seven of quality The use of tools of the new quality seven Group problem solving methods Creating a quality policy Quality documents in standardization environmental policy Statistical methods in quality Control cards Calculation of the Cp and Cpk indices Deming's quality theses; Juran and Crosby Excellence Model Criteria Calculation of quality costs		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Tests during the semester	60.0%	50.0%
	Report	60.0%	50.0%
Recommended reading	Basic literature	Hamrol A., Zarządzanie i inżynieria jakości, Wyd PWN Warszawa 2023	
	Supplementary literature	Hamrol A., Zarządzanie jakością z przykładami, Wyd PWN, Warszawa 2005  Dahlgard J., Kristensen K., Kanji G., Podstawy zarządzania jakością, Wyd. PWN, Warszawa 2002 Urbaniak M., Zarządzanie jakością. Teoria i praktyka, Wyd. Difin, Warszawa 2005 Lock D., Podręcznik zarządzania jakością, Wyd. PWN, Warszawa 2002	
	eResources addresses	Adresy na platformie eNauczanie:	
	Example issues/ example questions/ tasks being completed	Discuss the construction of the "Quality House" Discuss the construction of the type X control card Discuss the construction of an R-type control card Calculate the Cp and Cpk index Discuss the concept of Kaizen	
Work placement	Not applicable		

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