

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Production Quality Management, PG_00040589								
Field of study	Engineering Management								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
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			blended-learning			
Year of study	3		Language of instruction			Polish	Polish		
Semester of study	5		ECTS credits			4.0	4.0		
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Faculty of Manageme	Faculty of Management and Economics							
Name and surname	Subject supervisor	dr Anna Zielińska							
of lecturer (lecturers)	Teachers		dr Anna Zielińska						
			mgr Anna Wendt						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	Number of study hours	15.0	30.0	0.0	0.0		0.0	45	
	E-learning hours included: 30.0								
Learning activity and number of study hours	Learning activity Participation ir classes includ plan				Self-study SUM		SUM		
	Number of study 45 hours			6.0		49.0		100	
Subject objectives	Understanding of quality management basis, quality measurement and improvement tools, as well as basis of normalization and SPC								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_K01] can define priorities related to the implementation of team tasks as well as individual tasks		Knows how to work in group Knows how to use of group problems solving tools and quality improvement			[SK1] Assessment of group work skills			
	[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		Knows how to use quality methods to solve quality problems			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U11] can plan and control production and production quality, including the identification and formulation of specifications for simple engineering tasks		Plans and controls production and its quality			[SU2] Assessment of ability to analyse information			
	[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 plans quality management processes. Use quality problems solving tools including the cause and effects tools.			[SU4] Assessment of ability to use methods and tools			

Subject contents	LECTURES Quality definitions; Quality management development; Products and services quality; Quality determinants and its importance level; CSI and ESI index; QFD method and house of quality; Clasical seven tools of quality; New seven tools of quality; ISO 9000 as the normalization example; Environment management system ISO 14000; ISO 18000; HACCP and ISO 22000; Quality management conceptions of E. Deming, J. Juran and Ph. Crosby; Excellence Models; Costs of Quality. TUTORIALS Products and services characteristics identification; Determinants examples of the products and services; Counting of the customer and employee satisfaction level with CSI and ESI index useing; House of the quality building; Using of the cause and effects tools; Using of the seven classic quality tools; Group methods of the problems solving; Creating of the quality politics; Quality documents in normalization; Environment politics; Statistical methods of quality; Control charts; Counting of the quality costs.						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Midterm colloquium	60.0%	20.0%				
	Written exam	60.0%	50.0%				
	Practical exercise	60.0%	30.0%				
Recommended reading	Basic literature Dahlgaard 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						
	Supplementary literature Hamrol A., Zarządzanie jakością z przykładami, Wyd PWN, Wars 2005						
	eResources addresses	Adresy na platformie eNauczanie:					
		Zarządzanie jakością produkcji ZI 2024/2025 zima - Moodle ID: 39701 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=39701					
Example issues/ example questions/ tasks being completed	1 - Describe "House of quality"						
	2 - Describe control card - type X						
	3 - Describe control card - type R						
	4 - Calculate Cp and Cpk index						
	5 - Describe Kaizen conception						
Work placement	Not applicable						

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