

## Subject card

Subject name and code	Production Quality Management, PG_00044443								
Field of study	Engineering Management								
Date of commencement of studies	October 2020		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	Part-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Katedra Inżynierii Zar	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics							
Name and surname	Subject supervisor	dr inż. Grzegorz Zieliński							
of lecturer (lecturers)	Teachers		dr inż. Grzegorz Zieliński						
			mgr Anna We						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	8.0	16.0	0.0	0.0		0.0	24	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		SUM		
	Number of study hours	24		6.0		70.0		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			
			The student knows the basics of normalization and standards in the field of safety and environmental quality.			[SW3] Assessment of knowledge contained in written work and projects			
	[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		The student analyzes engineering solutions in the field of quality management			[SU4] Assessment of ability to use methods and tools			
	[K6_U11] can plan and control production and production quality, including the identification and formulation of specifications for simple engineering tasks		The student is able to undertake planning and quality improvement activities in the enterprise			[SU4] Assessment of ability to use methods and tools			
	[K6_K01] can define priorities related to the implementation of team tasks as well as individual tasks		The student prioritizes tasks and evaluation criteria used in quality management			[SK5] Assessment of ability to solve problems that arise in practice			

Data wydruku: 19.04.2024 23:04 Strona 1 z 2

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; Using of the seven new 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 Cp and Cpk indexes; Deming, Crosby and Juran quality thesis; Excellence Models Criteria; Counting of the quality costs.						
Prerequisites and co-requisites	No requirements						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Midterm colloquium	60.0%	20.0%				
	Practical exercise	60.0%	30.0%				
	Written exam	60.0%	50.0%				
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	pplementary literature Hamrol A., Zarządzanie jakością z przykładami, Wyd PWN, Warszawa 2005					
	eResources addresses	Adresy na platformie eNauczanie:  Zarządzanie jakością produkcji 2022/2023 LATO ZAOCZNE - Moodle ID: 29193 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29193					
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						

Data wydruku: 19.04.2024 23:04 Strona 2 z 2