

Subject card

Subject name and code	QUALITY ENGINEERING, PG_00061457							
Field of study	Engineering Management							
Date of commencement of studies	October 2024		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	Part-time studies (on-line)		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	5		ECTS credits			6.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Management Engineering and Quality -> Faculty of Management and Economics						s	
Name and surname	Subject supervisor dr hab. inż. Piotr Grudowski							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	16.0	0.0	16.0	0.0		0.0	32
	E-learning hours inclu	ided: 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	32		7.0		111.0		150
Subject objectives	Analyzes production processes using quantitative and qualitative methods, making a critical assessment of them allowing for continuous improvement of quality							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_U05] designs innovative solutions for complex management processes, using appropriate methods and techniques					[SU4] Assessment of ability to use methods and tools		
	[K6_W07] analyzes in an advanced way management processes in the technical, legal, economic, financial and social context		uses advanced methods currently used in quality engineering to analyze and evaluate production processes			[SW1] Assessment of factual knowledge		
Subject contents	Introduction to the subject The concepts of variability, stability and process capability Basic quantitative data analysis tools Classification and identification of quality problems The essence of the Six Sigma program Team organization; roles in and around the team DMAIC methodology LABORATORY Fundamentals of metrology and technical drawing Validation of measurement tools Measurement System Analysis (MSA) Statistical Process Control (SPC) Tools and methods for identifying the causes of non-compliance Analysis of the probability of occurrence and consequences of the risk associated with a non-compliant product							
	i .							
Prerequisites and co-requisites								

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Work in groups	60.0%	25.0%		
	Test	60.0%	25.0%		
	Exam	60.0%	50.0%		
Recommended reading	Basic literature	Piotr Grudowski, Włodzimierz Przybylski, Mieczysław Siemiątkowski, Inżynieria jakości w technologii maszyn, Wydawnictwo Politechniki Gdańskiej, 2006 Adam Hamrol, Zarządzanie i inżynieria jakości Wydawnictwo Naukowe PWN, 2018 Piotr Grudowski, Ewa Leseure, LSS Plutus - Lean Six Sigma dla małych i średnich przedsiębiorstw, WNT, 2013			
	Supplementary literature	not relevant			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Actions as a result of the use of SPC cards Elements of the Robust Design methodology The importance of measurement in the assessment of process variability Elements of technical drawing Variation analysis in the process Measurement system analysis				
Work placement	Not applicable				

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 13.03.2025 01:08 Strona 2 z 2