



## Subject card

Subject name and code	PRODUCTION QUALITY MANAGEMENT, PG_00061456						
Field of study	Engineering Management						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
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	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Management Engineering and Quality -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Grzegorz Zieliński					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	24		7.0		69.0	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_U05] designs innovative solutions for complex management processes, using appropriate methods and techniques	designs innovative production quality assurance systems based on modern methods			[SU3] Assessment of ability to use knowledge gained from the subject		
	[K6_W07] analyzes in an advanced way management processes in the technical, legal, economic, financial and social context	analyzes production processes using advanced methods in the context of quality assurance, taking into account environmental and economic factors			[SW1] Assessment of factual knowledge		

Subject contents	<p>LECTURE</p> <p>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</p> <p>TUTORIAL</p> <p>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</p>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 893 794 920">Subject passing criteria</th> <th data-bbox="801 893 1139 920">Passing threshold</th> <th data-bbox="1145 893 1482 920">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 929 794 956">Tests during the semester</td> <td data-bbox="801 929 1139 956">60.0%</td> <td data-bbox="1145 929 1482 956">20.0%</td> </tr> <tr> <td data-bbox="456 965 794 992">Practical exercises</td> <td data-bbox="801 965 1139 992">60.0%</td> <td data-bbox="1145 965 1482 992">30.0%</td> </tr> <tr> <td data-bbox="456 1001 794 1028">Final test</td> <td data-bbox="801 1001 1139 1028">60.0%</td> <td data-bbox="1145 1001 1482 1028">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Tests during the semester	60.0%	20.0%	Practical exercises	60.0%	30.0%	Final test	60.0%	50.0%
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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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