



Subject card

Subject name and code	Production quality control, PG_00040009						
Field of study	Management and Production Engineering, Management and Production Engineering						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2022/2023		
Education level	first-cycle studies	Subject group			Optional subject group 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	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			exam		
Conducting unit	Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Dariusz Fydrych					
	Teachers	prof. dr hab. inż. Jerzy Łabanowski dr hab. inż. Dariusz Fydrych mgr inż. Adrian Wolski mgr inż. Anna Janeczek					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	15.0	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	7.0		33.0		100
Subject objectives	The aim of the subject is to familiarize yourself with the possibilities and methods of controlling the quality of production, analyze the changes and disruptions taking place in processes and assess their stability and maintain the level of quality of products.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_U10	The student is able to use the measuring tools			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment		
	K6_U08	The student is able to critically assess the usefulness of measuring tools			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
	K6_W12	Correctly identifies and resolves problems related to the exercise of the profession			[SW1] Assessment of factual knowledge		
	K6_K02	The student is able to work in a group			[SK2] Assessment of progress of work [SK1] Assessment of group work skills		
	K6_W08	The student classifies the methods of assessing the quality of materials and products.			[SW3] Assessment of knowledge contained in written work and projects		

Subject contents	<p>Quality assurance systems</p> <p>Static measurements</p> <p>Dynamic measurements</p> <p>Instruments and measuring methods</p> <p>Testing the properties of materials and products</p> <p>Economics</p> <p>Computer techniques.</p>														
Prerequisites and co-requisites															
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 792 794 815">Subject passing criteria</th> <th data-bbox="799 792 1137 815">Passing threshold</th> <th data-bbox="1142 792 1481 815">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 822 794 844">Lecture</td> <td data-bbox="799 822 1137 844">60.0%</td> <td data-bbox="1142 822 1481 844">50.0%</td> </tr> <tr> <td data-bbox="456 851 794 873">Project</td> <td data-bbox="799 851 1137 873">60.0%</td> <td data-bbox="1142 851 1481 873">25.0%</td> </tr> <tr> <td data-bbox="456 880 794 902">Laboratory</td> <td data-bbox="799 880 1137 902">60.0%</td> <td data-bbox="1142 880 1481 902">25.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Lecture	60.0%	50.0%	Project	60.0%	25.0%	Laboratory	60.0%	25.0%
Subject passing criteria	Passing threshold	Percentage of the final grade													
Lecture	60.0%	50.0%													
Project	60.0%	25.0%													
Laboratory	60.0%	25.0%													
Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. Kolman R. : Inżynieria jakości. PWE, Warszawa 1992 2. Kolman R. (pod redakcją) : Sterowanie jakością wytwarzania, Wydawnictwo PG, Gdańsk 1994 3. Kolman R. Zastosowania inżynierii jakości. OPO Bydgoszcz 2003 4. Grudowski P., Przybylski W., Siemiątkowski M.: Inżynieria jakości w technologii maszyn. Wydawnictwo PG, Gdańsk 2006 5. Hamrol A. Mantura W. : Zarządzanie jakością teoria i praktyka, Wydawnictwo Naukowe PWN, Wyd. III, Warszawa 2005 6. Polskie Normy (ISO) serii 9000 : 2000 , 2006 													

	Supplementary literature	<p>1. Gajek L., Kałuszka M.: Wnioskowanie statystyczne. Modele i metody. WNT, Warszawa 1993</p> <p>2. Thompson J. R., Koronacki J.: Statystyczne sterowanie procesem. Metoda Deminga etapowej optymalizacji jakości. Akademicka Oficyna Wydawnicza PLJ, Warszawa 1994</p> <p>3. Czyżewski B.: Metody statystyczne w sterowaniu jakością procesów technologicznych. OPTOSOFT-bis, Wrocław 1995</p>
	eResources addresses	<p>Adresy na platformie eNauczanie: Sterowanie jakością produkcji, W, L, P, Zarządzanie i inżynieria produkcji, I stopnia – inżynierskie, sem. 6, 2022/2023 - Moodle ID: 29481 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29481</p>
Example issues/ example questions/ tasks being completed	<p>Statistical methods in controlling the quality of production processes.</p> <p>Methods of assessing the quality of materials and products.</p>	
Work placement	Not applicable	