



Subject card

Subject name and code	Quality management basics, PG_00029598						
Field of study	Medical and Mechanical Engineering, Medical and Mechanical Engineering						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Aleksandra Wiśniewska					
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Podstawy zarządzania jakością - Moodle ID: 31043 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31043						
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	15	0.0	0.0	15		
Subject objectives	The aim of the course is to provide with the issues of quality management methods and tools used in quality management and the requirements of ISO 9000						
Learning outcomes	Course outcome	Subject outcome	Method of verification				
	K6_W13						
	K6_W04						
	K6_W13						
	K6_K01						
	K6_W07						
	K6_W07						
K6_W04							
Subject contents	Quality - its definitions and aspects. The concepts and principles of quality management. Other basic terms related to quality management. Quality management phases of the product life cycle. Traditional and novel tools of quality management. Qualitative tools descriptive and creative. Tools quantitative and descriptive statistics. Control charts. Process capability analysis. Methods supporting quality management. Quality Function Deployment (QFD). Failure Mode and Effects Analysis (FMEA). Design of Experiments (DOE). Methods of testing and inspection. Receiving inspection. The model quality system according to ISO 9001. Basic tools of evaluation and improvement of processes. Costs of quality. Integration of quality management systems.						
Prerequisites and co-requisites	No requirements						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Lecture	60.0%	100.0%				

Recommended reading	Basic literature	<p>1. Notatki wykładowe – materiały niepublikowane - dostępne w formie elektronicznej na stronie wykładowcy</p> <p>2. Grudowski P., Przybylski W., Siemiątkowski M. (red. W. Przybylski) Inżynieria jakości w technologii maszyn, Wydawnictwo PG, 2006</p> <p>3. Hamrol A. Mantura W. Zarządzanie jakością. Teoria i praktyka. PWN, Warszawa 2005</p> <p>4. Grudowski P. Projektowanie, nadzorowanie i doskonalenie systemu jakości według normy PN-EN ISO 9001:2009 w oparciu o podejście procesowe, ODDK, Gdańsk 2010</p>
	Supplementary literature	<p>1. Hamrol A.: Zapewnienie jakości w procesach wytwarzania. Wydawnictwo Politechniki Poznańskiej, Poznań 1995.</p> <p>2. Grudowski P. Jakość, środowisko i bhp w systemach zarządzania. Bydgoszcz: Wydawnictwo OPO-AJG, 2004</p> <p>3. Muhlemann A. P., Oakland J. S., Lockyer K. G.: „Zarządzanie. Produkcja i usługi”, Wydawnictwo Naukowe PWN, Warszawa 1997</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>1. Methods and tools of quality management</p> <p>2. Statistical process control</p> <p>3. Model of the quality system according to ISO 9001</p> <p>4. Receiving inspection</p>	
Work placement	Not applicable	