

Subject card

Subject name and code	Comprehensive quality management (TQM), PG_00059491							
Field of study	Management and Production Engineering							
Date of commencement of studies	February 2023		Academic year of realisation of subject		2022/2023			
Education level	second-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	Full-time studies		Mode of delivery			blended-learning		
Year of study	1		Language of instruction		Polish			
Semester of study	1		ECTS credits		4.0			
Learning profile	general academic profile		Assessment form		exam			
Conducting unit	Faculty of Management and Economics							
Name and surname	Subject supervisor		dr hab. inż. Piotr Grudowski					
of lecturer (lecturers)	Teachers		dr hab. inż. Piotr Grudowski					
			mgr Anna Wendt					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	0.0		0.0	45
	E-learning hours included: 26.0							
Learning activity and number of study hours	Learning activity	Participation in didaction classes included in sturblan		Participation in consultation hours		Self-study		SUM
	Number of study hours	45		10.0		45.0		100
Subject objectives	Presentation and an indication of the practical circumstances of the principles, methods and tools of a total quality management.							

Data wydruku: 03.05.2024 01:03 Strona 1 z 3

Learning outcomes Course outcome		Subject outcome	Method of verification			
	[K7_K02] is aware of the importance and understanding of non-technical aspects and effects of engineering activities, including its impact on the environment, and the related responsibility for decisions made demonstrates knowledge of actions to reduce risk and anticipate the social impact of engineering and manufacturing activities	The student consciously selects and applies rules, system models, methods and tools representing engineering and managerial activities in order to reduce the risk of implemented projects.	[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills			
	[K7_W01] knows and understands to a greater extent selected issues in the field of management and quality sciences and mechanical engineering, their location in the field of social sciences and engineering and technical sciences, as well as relationships with related disciplines, and sees the possibility of applying the knowledge in practice	The student has in-depth knowledge of the methodology of designing, controlling and improving system solutions regarding the quality of products or services and its relationships with the achievements of mechanical engineering and science of management and quality.	[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	[K7_U06] can - when formulating and solving engineering tasks - see their systemic aspects and social conditions, environmental, economic, legal and others	The student notices and determines the impact of the systemic complex of technical, social, environmental and legal factors determining the results of individual processes and the entire organization.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information			
	[K7_U01] can obtain information from literature, databases and others sources, also in English or another foreign language recognized as the language of international communication in a given engineering discipline; is able to integrate the obtained information, interpret it, as well as draw conclusions and formulate and justify opinions.	The student is able to obtain from the literature, databases and other sources, also in the foreign languages, information on comprehensive quality management of products or services, is able to integrate and interpret information, draw conclusions and formulate and justify professional opinions in this area.	[SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment			
Subject contents	LECTURES Quality Infrastructure. Principles of TQM in a product lifecycle. Models of Excellence as the basis for self assessment of an organization. The essence and the role of the process orientation in quality management Process design, control and improvement methodology in quality management systems. Audit-planning and conducting. Improvement cycle in ISO 9001 model elements. Tools for designing, assessment and improvement of quality. Economic aspects of quality. Integration of formalized management systems TUTORIALS Applications of elements of process design, control and improvement methodology. QMS audit preparation according to process approach. Self assessment of an organization basing on ISO 9004. Designing and interpreting of SPC charts. Process capability analysis. Applications of quality costs calculation in management systems.					
Prerequisites and co-requisites	Competencess aquired from the subject of lst level studies - "Quality management of production"					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	active participation in tutorials	70.0%	30.0%			
	Written exam	60.0%	70.0%			
Recommended reading	Basic literature	Grudowski P., Wiśniewska M.: Kultura jakości, doskonałości i bezpieczeństwa w organizacji. Warszawa: CeDeWu, 2019.244 s. Iś 9978-83-8102-276-7 Grudowski P. Projektowanie, nadzorowanie i doskonalenie systemi jakości według normy PN-EN ISO 9001:2009 w oparciu o podejście procesowe, ODDK, Gdańsk 2010 Grudowski P. Jakość, środowiski bhp w systemach zarządzania. Bydgoszcz: Wydawnictwo OPO-AJI 2004 Hamrol A. Mantura W. Zarządzanie jakością. Teoria i praktyki PWN, Warszawa 2005 (również wydania wcześniejsze 2002, 2004 Muhlemann A. P., Oakland J. S., Lockyer K. G.: Zarządzanie. Produkcja i usługi, Wydawnictwo Naukowe PWN, Warszawa 1997.				
	Supplementary literature	Grudowski P., Przybylski W., Siemiątkowski M., Inżynieria jakości w technologii maszyn, Wydawnictwo PG, 2006 Urbaniak M., Zarządzanie jakością. Teoria i praktyka. Difin 2004.				

Data wydruku: 03.05.2024 01:03 Strona 2 z 3

	eResources addresses	Adresy na platformie eNauczanie: Kompleksowe Zarządzanie Jakością 22/23 STAC. WIMiO - Moodle ID: 29362 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29362			
Example issues/ example questions/ tasks being completed	Principles of TQM. Models of excellence and their criteria. Elements of a Quality Infrastructure. Process approach in the QM.				
Work placement	Not applicable				

Data wydruku: 03.05.2024 01:03 Strona 3 z 3