



Subject card

Subject name and code	, PG_00056591						
Field of study	Engineering Management						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2025/2026		
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		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Faculty of Management and Economics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Mateusz Muchlado				
	Teachers		dr Mateusz Muchlado				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	15.0	0.0	0.0	45
	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	45		0.0		0.0	45
Subject objectives	Getting knowledge of quality, safety and environmental management systems. Acquiring the ability to design and implement these systems in organizations.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes		The student is able to select, design and implement appropriate methods, tools and techniques for the improvement of processes in order to meet the requirements of the standard.		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task		
	[K6_W13] has a basic knowledge of the design, modelling and optimisation of technical processes and systems		Student is able to identify the key aspects of system management and requirements of particular normative systems.		[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
Subject contents	1. Normative Management Systems of the ISO series;2. The context of the organization in ISO Management Systems;3. Leadership - its role in ISO Management Systems;4. Planning requirements in ISO Management Systems;5. Supporting the resources of the organization in the context of ISO 9001;6. Determining the requirements for products and services in the organization;7. Planning and design of development in the context of ISO 9001;8. Audit - a process improvement tool in the context of ISO management systems;9. Improving processes, products and services.						
Prerequisites and co-requisites	Basic knowledge of methods and tools used to design and improve processes.						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Lab		60.0%		50.0%		
	Midterm colloquium		60.0%		50.0%		

Recommended reading	Basic literature	1. Materials from the lecture placed on the e-learning platform 2. Grudowski P. Designing, supervising and improving the quality system according to the PN-EN ISO 9001: 2009 standard based on a process approach
	Supplementary literature	1. ISO 9001 - the text of the standard 2. ISO 14001 - the text of the standard 3. ISO 450001 - the text of the standard 4. ISO 27001 - the text of the standard
	eResources addresses	Supplementary https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40289 - Course e-nauczanie
Example issues/ example questions/ tasks being completed	1. Interpret the concept of the organization's context and provide methods of its identification 2. Identify the risks and opportunities associated with the customer service process 3. On what principles is ISO 9001 based? 4. What normative management system is responsible for information security management? 5. Plan an internal audit in the company in accordance with the requirements of the standard.	
Work placement	Not applicable	

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