

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Management Systems, PG_00038338									
Field of study	Automation, Robotics and Control Systems									
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026				
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study				
Mode of study	Part-time studies		Mode of delivery			at the university				
Year of study	2		Language of instruction			Polish				
Semester of study	3		ECTS credits			2.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Department of Control Engineering -> Faculty of Electrical and Control Engineering									
Name and surname	Subject supervisor		prof. dr hab. inż. Kazimierz Kosmowski							
of lecturer (lecturers)	Teachers									
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM		
	Number of study hours	10.0	0.0	0.0	0.0		10.0	20		
	E-learning hours included: 0.0									
	Adresy na platformie eNauczanie:									
Learning activity and number of study hours	Learning activity	Participation i classes includ plan		1 1	Participation in consultation hours		udy	SUM		
	Number of study hours	20		4.0				50		
Subject objectives	Acquiring knowledge quality management,									
Learning outcomes	Course outcome		Subject outcome			Method of verification				
	[K7_K02] can interact and work in a group assuming various roles and identify priorities for the achievement of a specific task									
	[K7_U04] has the ability for self- directed learning in order to improve his/her professional qualifications, and is able to identify directions for further learning									
	[K7_K05] can think and act in an entrepreneurial way		the knowledge and innovation management based on the Industry 4.0 concept.			[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness				
Subject contents	Aims and practical aspects of quality management system complies with the requirements of ISO 9001. Requirements for quality and safety in the design of control systems. Environmental management system complied with the requirements of ISO 14001 and EMAS Regulation - European Eco-Management and Audit. Safety Management Systems Occupational Health and PN-N 18001. Measures aimed towards the integration of management systems in the enterprise: developing a strategy that recognizes the subsystems, development of policies that contains aspects of quality, environment and safety. The issue of developing an integrated management system (IMS) in the company, including responsibility, authority and communication system, the development of documentation including policies, procedures, instructions, records and means of supervision. Basics of project management. Planning, scheduling, milestones, tasks, implementation and control tasks needed to achieve the objectives of the project. Factors related to the project: the project scope, execution time, the cost of the project (budget), quality and risk, and their formation. Evolution of management systems.									
Prerequisites and co-requisites	Basic knowledge of c		inagement							
Data wygenerowania: 28.10.2024	44.40					Strona	a 1z2			

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	colloquium	60.0%	50.0%				
	seminar presentation	60.0%	50.0%				
Recommended reading	Basic literature	I. Mingus N.: Project management. 2nd edition, OnePress, November 2009.     Z. Urbaniak M.: Quality, environment and safety management in industry. Difin, Warsaw 2007					
	Supplementary literature	1 .Hamrol A., Mantura W.: Quality management - theory and practice.					
		PWN, Warsaw 2005. 2. Janasz W. (red.). Industrial economy basics. PWN, Warsaw 1997.					
		<ol> <li>Januszewski A.: Electronic management systems functionality. Tom</li> <li>Integrated transaction systems. PWN/MIKOM 2008.</li> </ol>					
		4. Karczewski J.T.: Work safety management system. ODDK, Gdańsk 2000.					
		5. Kosmowski K.T.: Functional safety management in critical systems, Gdańsk, 2008.					
		6.Łobejko S.: Information systems in knowledge and innovation management in company. SGH, Warszawa 2005.					
		7.Rogowski W.: Investment efficiency calculation. Kraków 2004.					
	eResources addresses						
Example issues/ example questions/ tasks being completed	Process oriented quality management.						
	Environmental management in the context of EMAS system.						
	Information security management.						
	Safety management at work.						
	Project management.						
	Integrated management system.						
Work placement	Not applicable						

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