

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ENVIRONMENTAL MANAGEMENT SYSTEMS - TEAM PROJECT, PG_00061401								
Field of study	Engineering Management								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026			
Education level	first-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	Part-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			6.0	6.0		
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr hab. inż. Piotr Grudowski						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	16.0	0.0	0.0 16.0			0.0	32	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation ir classes includ plan				Self-study		SUM		
	Number of study hours	32		7.0		111.0		150	
Subject objectives	Designs management systems using applicable legal regulations, taking into account the impact of the company's operations on the broadly understood environment								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_K01] demonstrates awareness of legal, ethical and cultural diversity issues by making socially responsible decisions		makes socially responsible decisions in line with the goals of sustainable development			[SK5] Assessment of ability to solve problems that arise in practice			
	[K6_U03] demonstrates professional and effective teamwork, both as a leader and as a team member		designs and implements pro- ecological management systems by performing tasks as a member or team leader			[SU3] Assessment of ability to use knowledge gained from the subject			
	[K6_W01] identifies the determinants of the processes taking place in the analyzed systems and selects methods to solve them using the accumulated knowledge, taking into account the mutual relations between the analyzed phenomena		applies the principles of sustainable development in the design of enterprise management systems			[SW1] Assessment of factual knowledge			

Subject contents	LECTURE						
Subject contents	LECTURE Basic concepts and terminology in the field of management and environmental protection. Origins and foundations of sustainable economic development UN Sustainable Development Goals (SDGs). Environmental management models, elements, relationships History and review of the concept of a systemic approach to environmental management Environmental management system compliant with PN-EN ISO 14001. Genesis. Structure of type HLS of ISO Type A standards The context of the organization. Leadership Planning. Support Operations Performance evaluation Improvement Implementation of an environmental management system according to ISO 14001 EMS audits. EMS Certification Other standards for EMS in the ISO 14000 family. Management system compliant with the EMAS Regulation Energy management system compliant with EN ISO 50001 Benefits of EMS. Life Cycle Assessment (LCA), creation of an eco-balance, factors and sources of information obtained EMS in integrated management systems PROJECT Sustainable development in the context of pro-ecological activities of a selected company. Identification of the achievements of selected organizations in areas corresponding to the pro-ecological objectives of the UN regarding the UA. Use of ISO 26000 Design of EMS components according to ISO 14001 for the selected organization for the nst elements of the EMS: Environmental aspects; Risk assessment. Significant environmental aspects; Objectives and tasks in the field of the Environment; Operational management and performance evaluation; Improvement in the context of the World Improvement Environment Planning and conducting an internal audit of the EMS for a selected organization and designing improvement activities (follow-ups): development of an audit plan; preparation of a checklist for relevant EMS areas; reporting non-conformities and identifying improvement actions						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Project	60.0%	50.0%				
	Exam	60.0%	50.0%				
Recommended reading							
	Supplementary literature	Grudowski P., Jakość, środowisko i BHP w systemach zarządzania, OPO-AJG, 2004 Grudowski P., Pochyluk R., Szymański J., Zasady wdrażania systemu zarządzania środowiskowego zgodnego z wymaganiami normy ISO 14001, Eko-Konsult, 1999					
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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