GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ENVIRONMENTAL MANAGEMENT SYSTEMS - A TEAM PROJECT, PG_00061586		
Field of study	Management		
Date of commencement of studies	October 2023	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	Full-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	English
Semester of study	6	ECTS credits	5.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Management Engineering and Quality -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	Jarosław Badurek	
	Teachers	Damian Ciachorowski Jarosław Badurek	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	30.0	0.0	60

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	60	8.0	57.0	125

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_K02] makes competent and ethical decisions to create and maintain economic, social and environmental values	makes socially responsible decisions in line with the goals of sustainable development	[SK5] Assessment of ability to solve problems that arise in practice
[K6_W03] identifies reliable sources of information relevant to the analyzed issues	uses reliable sources of information in the design of environmental management systems	[SW1] Assessment of factual knowledge
[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

<table>
<tr><td>Subject contents</td><td>Course content – lecture
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</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Project</td><td>60.0%</td><td>50.0%</td></tr>
<tr><td>Exam</td><td>60.0%</td><td>50.0%</td></tr>
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</td></tr>
<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>Grudowski P., Hamrol A., Zymonik Z. Zarządzanie jakością i bezpieczeństwem, PWE Warszawa 2013
Grudowski P., Wiśniewska M. Z., Kultura jakości, doskonałości i bezpieczeństwa, CeDeWu, Warszawa 2019
Kowal E., Kucińska-Landwójtowicz A., Misiołek A., Zarządzanie środowiskowe, PWE, Warszawa, 2013</td></tr>
<tr><td>Supplementary literature</td><td>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</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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