GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ENVIRONMENTAL MANAGEMENT SYSTEMS - TEAM PROJECT, PG_00061452		
Field of study	Engineering Management		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2024/2025
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 (on-line)	Mode of delivery	blended-learning
Year of study	2	Language of instruction	Polish
Semester of study	4	ECTS credits	6.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Management Engineering and Quality -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Anna Lis	
	Teachers	Damian Ciachorowski dr hab. inż. Anna Lis dr inż. Ewa Marjańska dr inż. Elwira Brodnicka dr Mateusz Muchlado	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	16.0	0.0	0.0	16.0	0.0	32

E-learning hours included: 24.0

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	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_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
[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_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

Subject contents	Lecture: Fundamentals of environmental management; Origins of environmental management systems; ISO 14000 series standards. ISO 14001 requirements. EMAS regulation; Circular economy; Risk management in the context of the environment; Environmental sustainability in Poland and the world; Waste management in sustainable development; Carbon footprint, carbon footprint calculation methods, LCA analysis in relation to carbon and environmental footprint; Green washing Project: Analysis and assessment of the organization's impact on the environment; Organization's activities aimed at sustainable development; Design and implementation of an environmental management system in the organization; Final presentation
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Coursework	60.0%	50.0%
Project	60.0%	50.0%

Recommended reading

Basic literature	Bugdol M., Puciato D., Praktyczne zastosowanie systemów i koncepcji zarządzania środowiskowego, Wydawnictwo Uniwersytetu Jagiellońskiego, Kraków, 2022 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 Iwaszczuk, N., Posłuszny, K. 2021, Gospodarka o obiegu zamkniętym | modele, narzędzia, wskaźniki. Wyd. AGH; Zgromadzenie Ogólne Organizacji Narodów Zjednoczonych 2015 Jajuga K., Zarządzanie ryzykiem, *Wydawnictwo Naukowe PWN, Warszawa*, 2007 Kowal E., Kucińska-Landwójtowicz A., Misiołek A., Zarządzanie środowiskowe, PWE, Warszawa, 2013 Kulińska, E., Dornfeld A.. Zarządzanie ryzykiem procesów: identyfikacja-modelowanie-zastosowanie. Oficyna Wydawnicza Politechnika Opolska, 2009 Norma PN EN ISO 14001 Systemy zarządzania środowiskowego - Wymagania i wytyczne stosowania (aktualne wydanie) Rezolucja Przekształcamy nasz świat: Agenda na rzecz zrównoważonego rozwoju 2030. A/RES/70/1 Zarządzanie środowiskowe (e-book); pr. zbiorowa pod redakcją Matuszak-Flejszman
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: Systemy zarządzania środowiskowego (studia on-line) - Moodle ID: 43956 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=43956

Example issues/ example questions/ tasks being completed	Explain what the concept of product and organizational carbon footprint is.Explain the concept of greenwashing. Discuss the activities of the circular economy.
Work placement	Not applicable

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