



Subject card

Subject name and code	ENVIRONMENTAL MANAGEMENT SYSTEMS - TEAM PROJECT, PG_00061401						
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		Mode of delivery		at the university		
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		dr hab. inż. Anna Lis				
			dr inż. Ewa Marjańska				
			dr inż. Elwira Brodnicka				
			dr Mateusz Muchlado				
Damian Ciachorowski							
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: 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	32		7.0		111.0	150
Subject objectives	Designs environmental 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; Sustainability-oriented activities of the organization; 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., Połuszny, 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., Misiólek 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 A., Wydawnictwo Uniwersytetu Ekonomicznego w Poznaniu, Poznań, 2023	
	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 niestacjonarne) - Moodle ID: 43954 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=43954	
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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