



Subject card

Subject name and code	ENVIRONMENTAL MANAGEMENT SYSTEMS - TEAM PROJECT, PG_00061335						
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	Full-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. Piotr Grudowski					
	Teachers	Damian Ciachorowski mgr Alina Guzik dr hab. inż. Piotr Grudowski 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	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		7.0		83.0	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_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	<p>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</p> <p>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</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Project	60.0%	50.0%
	Coursework	60.0%	50.0%
Recommended reading	Basic literature	<p>Bugdól M., Puciato D., Praktyczne zastosowanie systemów i koncepcji zarządzania środowiskowego, Wydawnictwo Uniwersytetu Jagiellońskiego, Kraków, 2022</p> <p>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</p> <p>Iwaszczuk, N., Postuszny, K. 2021, Gospodarka o obiegu zamkniętym modele, narzędzia, wskaźniki. Wyd. AGH; Zgromadzenie Ogólne Organizacji Narodów Zjednoczonych 2015</p> <p>Jajuga K., Zarządzanie ryzykiem, <i>Wydawnictwo Naukowe PWN, Warszawa, 2007</i></p> <p>Kowal E., Kucińska-Landwójtowicz A., Misiótek A., Zarządzanie środowiskowe, PWE, Warszawa, 2013</p> <p>Kulińska, E., Dornfeld A.. Zarządzanie ryzykiem procesów: identyfikacja-modelowanie-zastosowanie. Oficyna Wydawnicza Politechniki Opolska, 2009</p> <p>Norma PN EN ISO 14001 Systemy zarządzania środowiskowego - Wymagania i wytyczne stosowania (aktualne wydanie)</p> <p>Rezolucja Przekształcamy nasz świat: Agenda na rzecz zrównoważonego rozwoju 2030. A/RES/70/1</p> <p>Zarządzanie środowiskowe (e-book); pr. zbiorowa pod redakcją Matuszak-Flejszman A., Wydawnictwo Uniwersytetu Ekonomicznego w Poznaniu, Poznań, 2023</p>	
	Supplementary literature	<p>Grudowski P., Jakość, środowisko i BHP w systemach zarządzania, OPO-AJG, 2004</p> <p>Grudowski P., Pochyluk R., Szymański J., Zasady wdrażania systemu zarządzania środowiskowego zgodnego z wymaganiami normy ISO 14001, Eko-Konsult, 1999</p>	
	eResources addresses	<p>Adresy na platformie eNauczanie: SYSTEMY ZARZĄDZANIA ŚRODOWISKOWEGO - PROJEKT ZESPOŁOWY - Moodle ID: 44011 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=44011</p>	

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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