

Subject card

Subject name and code	WASTE MANAGEMENT, PG_00060006								
Field of study	Environmental Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
Education level	second-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	1		Language of instruction			English			
Semester of study	2		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Enviro	nmental Engin	eering Technol	logy -> Faculty	of Civil	and En	vironmental l	Engineering	
Name and surname	Subject supervisor		prof. dr hab. inż. Aneta Łuczkiewicz						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	30.0	15.0	0.0	15.0		0.0	60	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation in consultation hours		Self-study		SUM	
	Number of study 60 hours			5.0		38.0		103	
Subject objectives	The aim of the course is to present waste management in terms of saving critical raw materials, to provide practical knowledge of the circular economy, recycling, refurbishment, and remanufacturing also as new business opportunities.								
Learning outcomes	Course out	come	Subj	ject outcome		Method of verification			
	K7_U12		The student is capable of analyzing and assessing the technical and economic aspects of solutions implemented in environmental engineering.			[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment			
	K7_U07		The student possesses the capability to devise and execute an evaluation of the efficacy of implemented solutions within the field of environmental engineering			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject			
	K7_U04		The student can prepare and present a presentation on rational methods of waste management and lead a discussion on the presented issue.			[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools			
	K7_W07		The student has in-depth, well- organized knowledge regarding municipal economy, including waste stream processing technologies			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
Subject contents	Lecture: Smart Waste Management. Current challenges in the protection of natural resources and environmental problems resulting from improper waste management. Critical resources: substitution and supply chain, including recycling (pre-processing, metallurgy, and related challenges). Effective waste segregation in both households and at the corporate level. The psychology of recycling, recovery, and reuse. Preventing waste generation through production optimization, including the sharing/access economy, sustainable procurement, and product design, as well as by introducing new business models.								
Data wadruku: 18.07.2024	Tutorials/Project: Case study on waste management in selected industrial facilities or economic sectors.								

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Prerequisites and co-requisites					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	project	60.0%	30.0%		
	tutorials	60.0%	30.0%		
	lecture	60.0%	40.0%		
Recommended reading	Basic literature	Waste Management EU Policies & Strategies https://ec.europa.eu/environment/waste/index.htm			
	Supplementary literature	-			
	eResources addresses Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	-				
Work placement	Not applicable				

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