



Subject card

Subject name and code	, PG_00065741						
Field of study	Recycling and Energy Recovery						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2024/2025		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish no comments		
Semester of study	4		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Process Engineering and Chemical Technology -> Faculty of Chemistry -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Jacek Gębicki				
	Teachers		dr hab. inż. Jacek Gębicki dr inż. Szymon Mania dr inż. Edyta Słupek dr inż. Marcin Włoch dr inż. Karolina Kucharska				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	0.0	20.0	0.0	20.0	60
	E-learning hours included: 0.0						
	eNauczanie source address: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45020 Moodle ID: 45020 24/25_Prawne aspekty gospodarski odpadami https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45020						
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		0.0		0.0	60
Subject objectives	The aim of this course is to familiarize students with the legal aspects of waste management. This course aims to provide students with theoretical and practical knowledge of the legal aspects of waste management, which is crucial for effective waste management and environmental protection.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W71] has general knowledge in humanistic, social, economic or legal sciences	The student has knowledge in the field of humanities, social, economic and legal sciences.	[SW1] Assessment of factual knowledge
	[K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	The student is able to use knowledge of the humanities, social, economic and legal sciences in functioning in a social environment.	[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment	The student is able to apply knowledge of the humanities, social, economic and legal sciences to solve problems in the social environment.	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information
	[K6_W07] demonstrates knowledge and understanding of Polish and European law in the field of entrepreneurship, waste management, circular economy, health and safety rules and industry standards.	The student has knowledge and understanding of Polish and European law in the field of entrepreneurship, waste management, circular economy, occupational health and safety principles and industry standards.	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects
	[K6_U07] creates solutions aimed at implementing legal regulations and managing raw materials/ waste on the premises of the company, as well as organizing work in accordance with legal standards and health and safety regulations.	The student is able to create solutions aimed at implementing legal regulations and managing raw materials/waste on the company's premises, as well as organizing work in accordance with legal standards and health and safety regulations.	[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task
Subject contents	Introduction and overview of the Regulation on Waste Classification. Registration, recording, and reporting according to Regulation Journal of Laws 2019, item 2531. Legal aspects of the Biological Processing Department at the ZUT Zakład Utylizacyjny. Hazardous waste management. Legal aspects of medical, veterinary, and pharmaceutical waste management. Plastics in the 21st century: benefits, threats, and challenges. Origins of the legal conditions governing plastics. National, European, and global legislation on plastic waste. Plastic waste management: the situation in Poland, selected European countries, and globally. Mechanical and chemical recycling methods. Waste management and management in the wood industry: an example of Paged Sp. z o.o. Legal aspects, threats, and opportunities for by-product management in the medical, cosmetics, and food industries.		
Prerequisites and co-requisites	<ul style="list-style-type: none"> • Knowledge of basic concepts and principles of administrative and environmental law. • Ability to interpret legal regulations. • Ability to analyze and interpret data related to waste management. • Ability to conduct legal research and analysis. • Ability to communicate effectively in written and oral form. • Ability to work in groups and lead discussions. 		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	reports on laboratory classes conducted	60.0%	30.0%
	written seminar colloquium	60.0%	30.0%
	written lecture colloquium	60.0%	40.0%
Recommended reading	Basic literature	<p>REGULATION OF THE MINISTER OF THE ENVIRONMENT of September 27, 2001, regarding the waste catalog.</p> <p>Regulation of the Minister of Economy, Labor and Social Policy of April 2, 2004, regarding methods and conditions for the safe use and disposal of asbestos-containing products.</p> <p>Regulation of the Minister of Economy of December 13, 2010, regarding requirements for the use of asbestos-containing products and the use and cleaning of installations or devices in which asbestos-containing products were or are used.</p> <p>PN-EN ISO 14001:2005 Environmental management system</p>	
	Supplementary literature	Literature databases of the Gdańsk University of Technology library resources and industry journals, e.g. Przegląd Komunalny	
	eResources addresses		

Example issues/ example questions/ tasks being completed	<p>1. Waste classification. Characterization of waste categories according to applicable regulations. Familiarization with waste classification criteria.</p> <p>2. Registration, record-keeping, and reporting. Familiarization with waste registration requirements. Characteristics of waste record-keeping in accordance with Regulation (Journal of Laws) of 2019, item 2531.</p> <p>3. Hazardous waste management. Familiarization with hazardous waste management procedures and hazardous waste disposal methods.</p>
Work placement	Not applicable

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