GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Specialist lecture, PG_00060057		
Field of study	Power Engineering, Power Engineering, Power Engineering		
Date of commencement of studies	February 2025	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Sanitary Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Filip Gamoń	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

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	30	0.0	25.0	55

Subject objectives

The aim of the subject is to analyze legal norms related to the energy sector, mainly renewable energy sources. Discussing various renewable energy technologies and their impact on the environment. Discussing the possibilities of recovering resources from waste generated as a result of the exploitation of renewable energy technologies in the context of a closed-loop economy.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_K82] is equipped to participate actively in lectures, seminars and laboratory classes conducted in foreign language	The student has the English language skills to actively participate.	[SK4] Assessment of communication skills, including language correctness [SK2] Assessment of progress of work

Subject contents

Course content – lecture
Detailed discussion of renewable energy sources, with particular emphasis on those that have potential for use in Poland. Discussion of legal norms concerning renewable energy. General overview of technologies and materials used in renewable energy. Detailed discussion of the possibilities of resource recovery from various renewable energy sources, along with the methods that can be applied for their recovery. Discussion of Poland's energy policy assumptions until 2040.

Prerequisites and co-requisites

The student should have basic knowledge of the types of renewable energy sources and their potential utilization in the energy sector.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
	60.0%	100.0%

Recommended reading

Basic literature

Ryszard Tytko "Renewable energy devices and systems. XVI edition. ECO INVESTMENT SP Z O.O., 2023Nick Jelley "Short course. Renewable energy". PWN Scientific Publishers, 2022Izabela Filipiak, Władysław Mielczarski "Energetyka w okresie transformacji" Wydawnictwo Naukowe PWN, Kraków 2023Document Energy Policy of Poland 2040Scientific articles

Supplementary literature: -

	eResources addresses	Basic https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37335 -
Example issues/ example questions/ tasks being completed	To introduce Students to renewable energy sources, the technology used to produce them and how to dispose of the materials. Special attention will be paid to the disposal of wind turbines, with a discussion of physical and chemical methods of their disposal. Current investments that are being carried out in Poland in the context of renewable energy sources will be discussed	
Practical activites within the subject	Not applicable	

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