



Subject card

Subject name and code	Environmental impacts of the investment , PG_00055983						
Field of study	Power Engineering						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2028/2029	
Education level	first-cycle studies	Subject group				Optional subject group 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	3	Language of instruction				Polish	
Semester of study	6	ECTS credits				2.0	
Learning profile	general academic profile	Assessment form				assessment	
Conducting unit	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Patrycja Mikos-Studnicka				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	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		2.0		18.0	50
Subject objectives	<p>Providing knowledge about:</p> <ul style="list-style-type: none"> - the impact of human activity on the environment - the environmental impact of broadly understood investments related to the energy sector, including the impact of different types of renewable energy sources - legal provisions on environmental protection and legislative requirements for the preparation of the EIA report - procedures for the preparation of the EIA report 						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_K03] is able to react in emergency situations, threats to health and life when using energy devices, is aware of the impact of engineering activities on the environment	The student is aware of the threats to health and life of people and the environment related to the operation of electrical power equipment. He is able to make decisions in emergency situations related to the use of power equipment.	[SK5] Assessment of ability to solve problems that arise in practice
	[K6_U09] knows and applies the basic provisions of construction law, water law and environmental law; can determine the impact of construction investments on the environment	The student is able to use legal regulations in the field of environmental protection. He knows the legal requirements for the preparation of the EIA report. He can determine environmental effects resulting from the implementation of energy investments.	[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information
	[K6_W02] has a basic knowledge of physics (including optics, electricity and magnetism), chemistry, technical thermodynamics, fluid mechanics and general mechanics needed to understand and describe the basic phenomena occurring in devices and systems, energy plants and transmission networks and their environment	The student understands and is able to describe the phenomena occurring in power equipment and energy systems, using the known principles of physics, fluid mechanics and general mechanics.	[SW1] Assessment of factual knowledge
[K6_K04] is able to formulate opinions on technical and technological processes in energy and sanitary engineering	The student is able to analyze problems and present an opinion on technical and technological processes in power and sanitary engineering.	[SK5] Assessment of ability to solve problems that arise in practice	
Subject contents	<p>Course content – lecture</p> <p>Components of nature and forms of environment protection Impact of investments on the environment, impact of individual types of renewable energy sources What is an EIA and when is it necessary Review of legislative requirements for the preparation of the EIA report. Standards, acts and legal regulations Scope of EIA What should an EIA contain Consultation and decision-making process in the EIA</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	arithmetic average of grades from tutorials and exam	51.0%	100.0%
Recommended reading	Basic literature	Federczyk W., Fogel A., Kosieradzka-Federczyk A., Environmental protection law in the investment and construction process, Woltes-Kluwer, Warsaw 2015	
	Supplementary literature	Environmental Protection Law Act of April 27, 2001; OJ 2017 item 519	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Practical activities within the subject	Not applicable		

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