



Subject card

Subject name and code	Environmental impacts of the investment , PG_00061733						
Field of study	Environmental Engineering						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2024/2025		
Education level	second-cycle studies		Subject group				
Mode of study	Part-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		4.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Environmental Engineering Technology -> Faculty Of Civil And Environmental Engineering -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Eliza Kulbat				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	20.0	0.0	0.0	10.0	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		3.0		70.0	103
Subject objectives	The aim of the course is to familiarize and substantively prepare for proceedings in the field of environmental impact assessment of investments in the applicable Polish legislation and European Union requirements.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_K01] can think and act in a creative, enterprising way; can determine priorities for individual or group tasks; understands the need for permanent learning and professional responsibility for the activities of both himself and the team		Students are able to think and act in a creative, entrepreneurial manner; they are able to define priorities for the realization of an individual or group task; they understand the need for constant learning and bearing professional responsibility for their own activity as well as that of a team.		[SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills		
	[K7_W08] has knowledge necessary to understand the social, economic, legal and other non-technical determinants of engineering activities and their incorporation in engineering practice		Students will have the knowledge necessary to understand the social, economic, legal and other non-technical conditions of engineering activity and to take them into account in engineering practice.		[SW1] Assessment of factual knowledge		
	K7_W05		Student has knowledge in the field of construction; technology and organisation of branch works or the impact of construction projects on the environment.		[SW3] Assessment of knowledge contained in written work and projects		
	[K7_U08] is able to assess risks in the implementation of engineering projects and implement appropriate safety rules		Student is able to assess the risks in engineering projects and implement appropriate safety rules.		[SU2] Assessment of ability to analyse information		
	K7_W03		Student has in-depth, structured and theoretically grounded knowledge in relation to measurement, management, monitoring of the environment.		[SW3] Assessment of knowledge contained in written work and projects		

Subject contents	1. Introduction to the subject. Basic laws and concepts. 2. Polish and international legal status of environmental protection. 3. the concept of sustainable development and environmental protection. 4. OOS procedure for planned projects, OOS procedure for spatial development plans. EIA - Role, System, principles of conducting, strategic environmental impact assessment Principles of conducting strategic EIA 5. EIA Directive, SEA Directive, Habitats Directive, Directive 85/337/EEC, Directive 92/43/EEC (Habitat Directive), Espoo Convention . 6. Procedures for Environmental Impact Assessment, Project Impact Assessment in international and Community law. 7. Assessment of the impact of a project in Polish law. 8. Examples of environmental threats occurring in construction and ecological investments. 10 Organization of environmental protection services. 11. Classification of pollutant emission sources. Types of environmental pollutants. 12 Categories of nuisance for investments and existing facilities. 13. Environmental impact assessment procedure, general characteristics, legal status. 14. Environmental impact assessment procedure - the role of the investor, environmental protection services, authors of the environmental impact report and social consultations. 15. Report on the impact of the investment/facility on the environment. Scope of studies, qualification procedures. 16. Methodology for describing the state of the environment. Environmental impact assessments of roads and highways. 17. Water and integrated permits as an element of the environmental protection system		
Prerequisites and co-requisites	Basic knowledge of water, wastewater and sludge management, air protection and waste management.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	passing the project	60.0%	40.0%
	passing the lecture	60.0%	60.0%
Recommended reading	Basic literature	1) Tyszecki A. (red.): Wytyczne do procedury i wykonywania ocenoddziaływania na środowisko. Fundacja IUCN, Warszawa 1996 2) Lenart W., Tyszecki A. (red.): Poradnik przeprowadzania ocenoddziaływania na środowisko. NFOŚiGW, EKOKONSULT, Gdańsk,1998 3) Bar M., Jendrośka J., Lenart W.: Ocena oddziaływania naśrodowisko w inwestycji budowlanej, Warszawa 2009	
	Supplementary literature	Zakrzewski S.F.: Podstawy toksykologii środowiska. WN PWN,Warszawa, 1995 Tomasz Nowakowski, Zakres i metodyka sporządzania raportu o oddziaływaniu na środowisko przedsięwzięć z zakresu gospodarki ściekowej. Poradnik prawno-metodyczny' Warszawa 2008 Cichocki Zdzisław' Metodyka prognoz oddziaływania na środowisko do projektów strategii i planów zagospodarowania przestrzennego IOŚ, Warszawa 2004 Nytko Krzysztof, Oceny oddziaływania na środowisko, Wydawnictwo Politechniki Białostockiej. 2007 Sas_Bojarska Aleksandra Przewidywanie zmian krajobrazowych w gospodarowaniu przestrzenią z wykorzystaniem ocen oddziaływania na Środowisko na przykładzie transportu drogowego' Gdańsk 2006	
	eResources addresses	Adresy na platformie eNauczanie: Oddziaływanie inwestycji na środowisko NST 2025 - Moodle ID: 45672 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45672	
	Example issues/ example questions/ tasks being completed	As part of the exercises, students complete the elements of an environmental impact assessment report for selected projects.	
Work placement	Not applicable		

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