GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Environmental impacts of the investment , PG_00059989		
Field of study	Environmental Engineering		
Date of commencement of studies	February 2024	Academic year of realisation of subject	2024/2025
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	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 Environmental Engineering Technology -> Faculty of Civil and Environmental Engineering		
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	30.0	0.0	15.0	0.0	0.0	45

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	45	5.0	30.0	80

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_W05	The student has structured, theoretically based knowledge about the impact of investment implementation on the environment	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
K7_W03	The student has knowledge about the impact of sanitary industry investments on the environment	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
[K7_U08] is able to assess risks in the implementation of engineering projects and implement appropriate safety rules	The student is able to assess threats during the implementation of selected engineering projects and implement appropriate safety rules	[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information
[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	The student has the knowledge necessary to understand the social, economic, legal and other non-technical conditions of engineering activities and to take them into account in engineering practice.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation

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, sewage and sewage sludge management, basic knowledge of legal regulations regarding water, sewage and sewage sludge.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
passing the lecture	60.0%	60.0%
passing the project	60.0%	40.0%

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 toksykologi 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:
Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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