

Subject card

Subject name and code	Environmental Protect	tion, PG_0004	2797					
Field of study	Environmental Engine	eering						
Date of commencement of studies	October 2021		Academic y realisation			2021/2	2022	
Education level	first-cycle studies		Subject gro			field o		ed to scientific
Mada afatoulo	Full-time studies		NA - d C -d -	Post and a			rch in the field	a or study
Mode of study	Full-time studies		Mode of de				university	
Year of study	1			of instructio	n	Polish		
Semester of study	1	6 1	ECTS cred			3.0		
Learning profile	general academic pro	ofile	Assessmer	nt form		assess	sment	
Conducting unit	Department of Enviro	nmental Engin	eering Technol	ogy -> Faculty	of Civil	and En	vironmental E	Engineering
Name and surname	Subject supervisor		dr hab. inż. El	iza Kulbat				
of lecturer (lecturers)	Teachers		dr hab. inż. E	liza Kulbat				
			dr inż. Aleksa	ındra Sokołow	ska			
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	30.0	15.0	0.0	0.0		0.0	45
	E-learning hours inclu	uded: 0.0						
	Address on the e-lear Adresy na platformie	٠.	https://enaucza	anie.pg.edu.pl/	moodle/	course/	view.php?id=	14339
	Additional information	1:						
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation consultation I		Self-st	udy	SUM
	Number of study hours	45		5.0		35.0		85
Subject objectives	Learning the basic iss engineering in shapin				and the	world ar	nd the role of	environmental
Learning outcomes	Course out	come	Subj	ect outcome			Method of ve	rification
	[K6_U01] has the ability to self-education, can obtain information from literature, databases and other sources, uses information technology, Internet resources; can integrate the obtained information, make their interpretation, as well as draw conclusions and formulate and justify opinions		The student is able to obtain information from literature, databases and other sources, uses information technologies, Internet resources; can integrate the obtained information, make their interpretation, as well as draw conclusions and formulate and justify opinions.			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information		
	[K6_W04] possesses knowledge in the fiel mechanics, ground s reclamation and geo basic knowledge abc composition of air, w environmental polluti processes responsib formation and ways them, knows the prin organization of sustamanagement	d of land science, land technics; has but the ater and soil, on and le for their to reduce sciples and	and pollution environment a responsible fo ways to reduc principles and	wledge of the of air, water and and processes or their formatic ee them, knows organization of ater managem	on and s the of	solve p		

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Prerequisites and co-requisites Basic knowledge in the field of biology and chemistry. Basic knowledge in the field of biology and chemistry. Subject passing criteria Passing threshold Percentage of the final grade exercises 60.0% 50.0% test 60.0% 50.0% Recommended reading Basic literature 1. Symonides E.: Ochrona przyrody, Wydawnictwa Uniwersytetu Warszawskiego, 2007,
and criteria exercises 60.0% 50.0% test 60.0% 50.0% Recommended reading Basic literature 1. Symonides E.: Ochrona przyrody, Wydawnictwa Uniwersytetu Warszawskiego, 2007,
test 60.0% 50.0% Recommended reading Basic literature 1. Symonides E.: Ochrona przyrody, Wydawnictwa Uniwersytetu Warszawskiego, 2007,
Recommended reading Basic literature 1. Symonides E.: Ochrona przyrody, Wydawnictwa Uniwersytetu Warszawskiego, 2007,
Warszawskiego, 2007,
 Dojlido J.R.: Čhemia wód powierzchniowych, Wydawnictwo Ekonomia i Środowisko, Białystok, 1995. Juda-Rezler K.: Oddziaływanie zanieczyszczeń powietrza na środowisko, Oficyna Wyd. Politechniki Warszawskiej, W-wa 2001 Kowalik P.: Ochrona środowiska glebowego, Wydawnictwo Naukowe PWN, 2001 r. Zadroga B., Olańczuk-Neyman K.: Ochrona i rekultywacja podłoż gruntowego, Wyd. PG, 2001. KabataPendias A., Pendias H.: Biogeochemia pierwiastków śladowych, Wyd. Nauk. PWN, Warszawa 1993. Dobrowolski Kazimierz A.: Polskie nauki ekologiczne wobec wyzwań globalnych i zadań praktycznych w kraju, Wydział Biolog Uniwersytetu Warszawskiego, wersja internetowa.
Supplementary literature The current regulation concerning the protection of the environment.
eResources addresses
Example issues/ example questions/ tasks being completed Comparison of the state of air quality in different regions of Poland, based on actual measurement data fror several measurement stations (Pomeranian: Gdańsk, Silesian voivodship: Sosnowiec or Gliwice, Warmian-Masurian Voivodeship: Puszcza Borecka). Assessment of surface water quality based on actual measurement data and current regulations. Analysis of the state of waste management in Poland based on Statistic Poland data.
Work placement Not applicable

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