

Subject card

Subject name and code	Environmental Protection, PG_00058738								
Field of study	Environmental Engineering								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2022/2023			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific			
Made of study	Full-time studies		Made of delivery			research in the field of study at the university			
Mode of study Year of study	1		Mode of delivery			Polish			
Semester of study	1		Language of instruction ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit			ngineering Technology -> Faculty of Civil						
Name and surname	Subject supervisor	- Innerital Engin	dr hab. inż. El		OI OIVII	und En	VII OTITICITALI E	gii icci ii ig	
of lecturer (lecturers)	Teachers		di fido. Iliz. El	.za Kuibat					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	15.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
	Additional information:								
Learning activity and number of study hours	Learning activity Participation in classes includ plan				Self-study S		SUM		
	Number of study hours	30		5.0		20.0		55	
Subject objectives	Learning the basic issues of environmental protection in Poland and the world and the role of environmental engineering in shaping and protecting the environment.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W04] possesses elementary knowledge in the field of land mechanics, ground science, land reclamation and geotechnics; has basic knowledge about the composition of air, water and soil, environmental pollution and processes responsible for their formation and ways to reduce them, knows the principles and organization of sustainable water management		the basic knowledge of the composition of air, water and soil, and pollution environment and processes responsible for their formation and ways to reduce them, knows the principles and organization of sustainable water management			[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills			
	[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			

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Subject contents	Definitions of basic concepts. Environmental protection against the backdrop of ecological sciences. Historical view of undertaken activities. International aspects of nature conservation: U-Thant report, Rio de Janeiro Earth Summit, international conventions and agreements. Forms of nature protection in Poland. Protected areas. Global and European networks of protected areas. Water protection and pollution. Basic concepts, sources and types of pollution. Protection zones of water intakes. Surface and groundwater monitoring systems. Legal bases for water protection. European Water Protection Charter. The Water Framework Directive. Legal acts in force in Poland. Protection and air pollution. Basic problems, sources and types of pollution. International legal regulations. Legal acts regulating air protection in the EU and in Poland. Air quality monitoring in Poland. Protection and contamination of soils. Basic concepts, sources and types of pollution. Land degradation and reclamation. Legal bases of soil protection in Poland. The impact of transport on the environment - comparison of the impact of various means of transport, assessment of the transport structure in Poland and the EU, assessment of threats to individual elements of the environment. The impact of energy on the environment, the structure of energy sources in Poland. Renewable energy. Noise and vibrations as environmental pollution. Light pollution.					
Prerequisites and co-requisites	Basic knowledge in the field of biology and chemistry.					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	exercises	60.0%	50.0%			
	test	60.0%	50.0%			
Recommended reading	Basic literature 1. Symonides E.: Ochrona przyrody, Wydwrszawskiego, 2007, 2. Dojlido J.R.: Chemia wód powierzchnie Ekonomia i Środowisko, Białystok, 199 3. Juda-Rezler K.: Oddziaływanie zaniec: środowisko, Oficyna Wyd. Politechniki 4. Kowalik P.: Ochrona środowiska glebo Naukowe PWN, 2001 r. 5. Zadroga B., Olańczuk-Neyman K.: Ocł gruntowego, Wyd. PG, 2001. 6. KabataPendias A., Pendias H.: Bioger śladowych, Wyd. Nauk. PWN, Warsza 7. Dobrowolski Kazimierz A.: Polskie nau wyzwań globalnych i zadań praktyczny Uniwersytetu Warszawskiego, wersja i					
	Supplementary literature	The current regulation concerning the protection of the environment.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Comparison of the state of air quality in different regions of Poland, based on actual measurement data from 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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