

Subject card

Subject name and code	Soil science and geography - laboratory, PG_00119839						
Field of study	Geography						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	Bachelor's 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			1.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Laboratory of Palaeoenvironmental Research -> Department of Geomorphology and Quaternary Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Sambor Czerwiński					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	10.0	0.0	0.0	10
	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	10		0.0		25.0	35
Subject objectives	<p>- soil-forming processes and factors and their influence on soil formation.- knowledge of methods for analysing individual soil properties, soil fertility and fertility.- understanding the importance of soils for the natural environment, agriculture.- knowledge of the systematics of soils in Poland.- The ability to recognise and describe the main types Poland, their genesis, structure, properties, quality, agricultural usefulness and economic importance.- knowledge of the distribution of soils of Poland and the world.- understanding the role of microorganisms in terrestrial ecosystems.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GEOGRL3-U06] apply methods and research tools of geographic sciences, including conducting observations and field measurements, and assess their suitability for the tasks in which the application objective of geography can be achieved	Student is able to apply basic field and laboratory procedures to identify and determine the main characteristics of soil substrate	[SU3] text preparation/written work [SU6] demonstration of practical skills
	[GEOGRL3-W07] on advanced level methods of acquiring data on the natural and anthropogenic environment, including operation of specialized equipment	Students know and understand the field and laboratory methods used in studies of the soil environment.	[SW2] presentation/project/paper/report [SW5] implementation of a problem task
	[GEOGRL3-K02] bear full responsibility for the actions taken and adhere to the principles of professional ethics and principles of intellectual honesty, is aware of the importance of a professional approach in professional life	Is ready to adopt lifelong attitudes to the protection of the the soil environment and the promotion of scientific knowledge on the proper use of soils and the ecosystem services they provide	[SK2] presentation/project/paper/report [SK3] text preparation/written work
	[GEOGRL3-U01] identify and analyze basic natural and socio-economic processes and phenomena and analyze their causes and course	Student is able to identify and analyse basic processes and phenomena related to soil formation under the influence of natural and anthropogenic factors.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU3] text preparation/written work
	[GEOGRL3-U05] find and select the necessary information from professional literature and other sources, including electronic sources	Student know how to use scientific literature and electronic databases to explain issues related to soil conservation and monitoring	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU3] text preparation/written work
	[GEOGRL3-W08] at an advanced level methods and principles development of data on the natural and anthropogenic environment, and methods of their analysis and interpretation	Student knows and understands the methods and principles of data processing for investigating the properties of the soil environment.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
[GEOGRL3-U08] use scientific language and express themselves and discuss topics concerning geographic issues in Polish and in a foreign language	Be able to use appropriately selected terminology in Polish and English on the basics of national and international soil systematics.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU3] text preparation/written work	
Subject contents	<p>- The concept of soil and land and their roles in the environment and human economy.- Division of soil and land formations and their classification.- The role of soil microorganisms.- The concept of physical properties of soil formations.- Principles of protection of the soil environment.- The ability to compile and interpret documentation on the properties of the soil-soil environment.- The ability to assess the suitability of the soil-soil environment for human management. - Distribution of major soil types in the world.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Report	51.0%	70.0%
	Presentation	51.0%	30.0%
Recommended reading	Basic literature	Schealtz R., Anderson S., 2007, Soils, Genesis and Geomorphology. Cambridge University Press	
	Supplementary literature	White, R. E. 2005. Soil Science & Geoarchaeology. Principles and Practice of Soil Science: The Soil as a Natural Resource, 4th Edition.	
	eResources addresses		

Example issues/ example questions/ tasks being completed	List the main components of soil and describe them Main levels according to the Systematics of Soils of Poland, 2019 Difference between mineral and organic soils Elementary soil-forming processes
Work placement	Not applicable

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