

Subject card

Subject name and code	, PG_00062609							
Field of study	Civil Engineering							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024		
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		Mode of delivery			research in the field of study at the university		
Mode of study Year of study	2		Language of instruction			Polish		
Semester of study	4		ECTS credits			5.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit								
Name and surname	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineering Subject supervisor dr inż. Rafał Ossowski							Linginiconing
of lecturer (lecturers)	Teachers		UI III.Z. I (Aliai Ossuwski					
Lesson types and methods	Lesson type	Lecture	Tutorial Laboratory Project		:t	Seminar	SUM	
of instruction	Number of study hours	15.0	30.0	15.0	0.0		0.0	60
	E-learning hours inclu	ıded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	60		0.0		0.0		60
Subject objectives	An introduction to the basics of soil mechanics as a building substrate and building material.							
Learning outcomes	Course out	come	Subject outcome			Method of verification		
	[K6_W02] Demonstrate knowledge and understanding of the processes and established methods of analysis / solution of engineering issues & problems in the field of civil engineering and of their limitations.		The student has knowledge of phenomena occurring in subsoil and the effects of water on physical and mechanical properties of soil. Students shall be able to assess threats to engineering structures related to from filtration phenomena, subsidence, consolidation, landslides			[SW1] Assessment of factual knowledge		
	[K6_U05] Conducts research (obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.		Student will be able to determine the physical characteristics, strength and filtration parameters, compaction and compressibility characteristics of the soil and apply them to solve problems in the field of soil mechanics.			[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information		
[K6_U02] Analyse & solve engineering issues & problems in the field of civil engineering by applying appropriate and relevant established analytical, numerical and experimental methods.		The student determines and analyses stress distributions in the ground medium, calculates physical characteristics, analyses water flow in the ground, calculates bearing capacity and settlement of foundations and slope stability			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	Origin and classification of soil. Physical characteristics. Water in the soil. Stress in the soil. Compressibility, consolidation, settlement. Shear strength of soils. Slope stability. Active and passive pressure. Bearing capacity of direct foundations. Investigations of the subsoil.							
Prerequisites and co-requisites								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria		100.0%	0.0%		
		55.0%	100.0%		
Recommended reading	Basic literature	Lecture materials made available on the eNauczanie platform			
C	Supplementary literature	 Z. Wiłun: Zarys geotechniki , different issues S. Pisarczyk: Mechanika gruntów, different issues App in eNauczanie with 3D laboratory models. 			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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