

## Subject card

Subject name and code	Soil Mechanics, PG_00062609							
Field of study	Civil Engineering							
Date of commencement of studies	October 2023		Academic year of realisation of subject		2024/2025			
Education level	first-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery		at the university			
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	Department of Geotechnical and Hydraulic Engineering -> Faculty of Civil and Environmental Engineer					Engineering		
riamo ana camamo	Subject supervisor		dr inż. Rafał Ossowski					
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
	Number of study hours	15.0	30.0	15.0	0.0	0.0 60		60
-	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan	l '			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 outcome Subject outcome Me				Method of ver	ification		
	engineering issues & problems in the field of civil engineering by applying appropriate and relevant established analytical, numerical and experimental methods.		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			use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
	[K6_U05] Conducts research (obtaining information, simulations, experimental methods) in the field of construction in order to solve specific tasks and report research results.		strength and filtration parameters, compaction and compressibility characteristics of the soil and			[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task		
	[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.					[SW1] Assessment of factual knowledge		
	the field of civil engin	problems in	properties of soil. Studer assess threats to eng related to from filtration subsidence, c	nts shall be able ineering structe phenomena,				
,	the field of civil engin	problems in eering and of on of soil. Physicant. Shear stre	properties of soil. Studer assess threats to eng related to from filtration subsidence, c landslides sical characterisength of soils. Student assess the student and subsidence of soils. Student and subsidence of soils.	ints shall be able ineering structe phenomena, onsolidation, stics. Water in	ures			
,	the field of civil engin their limitations.  Origin and classificati consolidation, settlem capacity	problems in eering and of on of soil. Physicant. Shear stre	properties of soil. Studer assess threats to eng related to from filtration subsidence, c landslides sical characterisength of soils. Student assess the student and subsidence of soils. Student and subsidence of soils.	ints shall be able ineering structe phenomena, onsolidation, stics. Water in	ures			
Prerequisites and co-requisites Assessment methods	the field of civil engin their limitations.  Origin and classificati consolidation, settlem capacity	problems in eering and of on of soil. Phys ent. Shear stre Investigations	properties of soil. Studer assess threats to eng related to from filtration subsidence, clandslides sical characterisength of soils. Sof the subsoil.	ints shall be able ineering structe phenomena, onsolidation, stics. Water in	ures the soil.	nd pass		Bearing
Prerequisites and co-requisites	the field of civil engin their limitations.  Origin and classificati consolidation, settlem capacity of direct foundations.	problems in eering and of on of soil. Phys ent. Shear stre Investigations	properties of soil. Studer assess threats to eng related to from filtration subsidence, clandslides sical characterisength of soils. Sof the subsoil.	ints shall be able ineering structor phenomena, onsolidation, stics. Water in Slope stability.	ures the soil.	nd pass	centage of the	Bearing

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Recommended reading	Basic literature	Lecture materials made available on the eNauczanie platform				
	Supplementary literature	<ul> <li>Z. Wiłun: Zarys geotechniki, different issues</li> <li>S. Pisarczyk: Mechanika gruntów, different issues</li> <li>App in eNauczanie with 3D laboratory models.</li> </ul>				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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