

Subject card

Subject name and code	Geoengineering, PG_00044348							
Field of study	Civil Engineering							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026		
Education level	second-cycle studies		Subject group		Optional subject group			
Mode of study	Part-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	general academic profile		Assessment form			assessment		
Conducting unit	Department of Geotechnics, Geology and Marine Civil Engineering -> Faculty of Civil and Environmental Engineering							
Name and surname	Subject supervisor		dr inż. Angelika Duszyńska					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial			Seminar	SUM	
	Number of study hours	10.0	0.0	0.0	0.0		0.0	10
		E-learning hours included: 0.0					0.114	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h		Self-study		SUM
	Number of study hours	10		5.0				25
Subject objectives	The aim of the course is to familiarize students with the possibilities of using practice geoengineering issues in transport engineering.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K7_W12] has deep and theoreticaly firm knowledge about geotechnical investigation, the rules of geotechnical design and engineering geology; knows the complcated processes in soil, techniques of foundations, draining systems, soil strengthening, geosynthetics applications, underground constructions and earthworks		Knowledge of the principles of geotechnical design, methods of subsoil modification under communication embankments and the use of geosynthetics in road structures					
	[K7_U14] is able to plan and to interpret the geotechnical investigatons, to analyse the foundation stability; can design direct and deep foundations in complex soil conditions for complcated statical and dynamical loads		Ability to interpret geotechnical test results, assessment of embankment stability and foundation in difficult ground conditions.					
Subject contents	Geotechnical design. Slope stability. Geosynthetics in earth structures. Soil reinforcement and modification. Methods of underground communication facilities constructing.							
Prerequisites and co-requisites	Basic knowledge of soil mechanics and foundation							
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	test		60.0% 100.0%					
Recommended reading	Basic literature		Eurocode 7					
	Supplementary literature eResources addresses		technical and scientific journals Adresy na platformie eNauczanie:					
	erzesources addresse	- 0	Adresy na pla	auormie eNauc	zanie:			

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Example locator	Geotechnical design. Slope stability. Geosynthetics in earth structures. Soil reinforcement and modification. Methods of underground communication facilities constructing.
Work placement	Not applicable

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