

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Geotechnical Training		Code 1010101141010120301
Field of study Civil Engineering First-cycle Studies	Profile of study (general academic, practical) general academic	Year /Semester 2 / 4
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: - Classes: 40 Laboratory: - Project/seminars: -		No. of credits 3
Status of the course in the study program (Basic, major, other) other		(university-wide, from another field) university-wide
Education areas and fields of science and art technical sciences		ECTS distribution (number and %) 3 100%
Responsible for subject / lecturer: dr inż. Sławomir Janiński email: slawomir.janinski@put.poznan.pl tel. 6652417 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	A full range of knowledge in mathematics and physics included in the program of high school. A full range of knowledge covered by the program of studies 1 and 2 semester majoring in construction, in particular in the field of soil mechanics, foundations and fundamentals of geology
2	Skills	Student: - knows how to apply the principles of recognition of soil mechanics to determine the models of subsoil; - is able to apply the basic laws of soil mechanics to determine the state of stress, strength and deformability of the ground; - be able to design a simple foundations of buildings; - can apply methods to ensure slope stability foundation trenches
3	Social competencies	Student: - he is able to work independently and collaborate in a team on specific task; - he is responsible for the accuracy obtained results of their work; - isolated complements and extends the knowledge of modern techniques, processes and technologies
Assumptions and objectives of the course: Enhancing knowledge of soil mechanics and foundation and skills in its application in practis		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. In acquainted with construction law, national norms and EN standards and technical conditions for of structure construction - [-K_W06]		
2. Knows geology fundamentals, soil mechanics and foundations construction structures evaluate - [-K_W08]		
3. Knows rules related to the design and analysis of residential, industrial, road, railroad and bridge structures - [-K_W09]		
Skills:		
1. Can evaluate and list loads acting on structures - [-K_U02]		
2. Can appropriately define computational models used for the structure analysis - [-K_U03]		
3. Can design simple foundations of structures for residential, public, industrial construction engineering, road, railways, bridges infrastructures - [-K_U09]		
Social competencies:		

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| 1. Can work on a problem individually and in a team - [-K_K01]
2. Is aware of own health and fitness - [-K_K04]
3. Is aware of the necessity to advance professional and personal competencies - [-K_K06] |
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Assessment methods of study outcomes		
- oral tests as part of the continuous assessment - execution of studies containing results and analysis geotechnical		
Course description		
- programming geotechnical testing ground -perform geotechnical testing ground to determine the geotechnical foundation conditions of buildings; - interpretation of the results of geotechnical studies of the substrate; - analysis of geotechnical foundation conditions of buildings; - technologies for earth moving and foundation		
Basic bibliography:		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. participation in classes and individual work	90	
Student's workload		
Source of workload	hours	ECTS
Total workload	90	3
Contact hours	30	1
Practical activities	60	2