

<b>STUDY MODULE DESCRIPTION FORM</b>		
Name of the module/subject <b>Geotechnical Training</b>		Code <b>1010101141010120301</b>
Field of study <b>Civil Engineering First-cycle Studies</b>	Profile of study (general academic, practical) <b>general academic</b>	Year /Semester <b>2 / 4</b>
Elective path/specialty <b>-</b>	Subject offered in: <b>Polish</b>	Course (compulsory, elective) <b>obligatory</b>
Cycle of study: <b>First-cycle studies</b>	Form of study (full-time, part-time) <b>full-time</b>	
No. of hours Lecture: - Classes: <b>40</b> Laboratory: - Project/seminars: -		No. of credits <b>3</b>
Status of the course in the study program (Basic, major, other) <b>other</b>		(university-wide, from another field) <b>university-wide</b>
Education areas and fields of science and art <b>technical sciences</b>		ECTS distribution (number and %) <b>3 100%</b>
<b>Responsible for subject / lecturer:</b>  dr inż. Sławomir Janiński email: slawomir.janinski@put.poznan.pl tel. 6652417 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań		
<b>Prerequisites in terms of knowledge, skills and social competencies:</b>		
1	<b>Knowledge</b>	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	<b>Skills</b>	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	<b>Social competencies</b>	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
<b>Assumptions and objectives of the course:</b> Enhancing knowledge of soil mechanics and foundation and skills in its application in practis		
<b>Study outcomes and reference to the educational results for a field of study</b>		
<b>Knowledge:</b>		
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]		
<b>Skills:</b>		
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]		
<b>Social competencies:</b>		

- |   |
|---|
| 1. Can work on a problem individually and in a team - [-K_K01]<br>2. Is aware of own health and fitness - [-K_K04]<br>3. Is aware of the necessity to advance professional and personal competencies - [-K_K06] |
|---|

<b>Assessment methods of study outcomes</b>		
- oral tests as part of the continuous assessment - execution of studies containing results and analysis geotechnical		
<b>Course description</b>		
- programming geotechnical testing ground -perform geotechnical testing ground to determine the geotechnical foundation conditions of buildings; - interpretation of the results of gotechnical studies of the substrate; - analysis of geotechnical foundation conditions of buildings; - technologies for earth moving and foundation		
<b>Basic bibliography:</b>		
1. Witun Z.: Zarys geotechniki, Warszawa, WKiŁ 2012 2. Pisarczyk St.: Gruntozawstwo inżynierskie, Warszawa, PWN 2001 3. Szymański A.: Mechanika Gruntów, SGGW, Warszawa 2007 4. Rybak Cz., Puła O., Sarniak W.:Fundamentowanie, DWE 1997		
<b>Additional bibliography:</b>		
1. Jeż J.: Biogeotechnika, Poznań, Wyd. PP 2008 2. Motak E.: Fundamenty bezpośrednie, Warszawa, Arkady 1988 3. Obrycki M., Pisarczyk St.: Zbiór zadań zmechaniki gruntów,Warszawa, PW 2007 4. Puła O. Projektowanie fundamentów według Eurokodu 7. Wyd. 2., DWE, Wrocław 2012		
<b>Result of average student's workload</b>		
Activity	Time (working hours)	
1. participation in classes and individual work	90	
<b>Student's workload</b>		
Source of workload	hours	ECTS
Total workload	90	3
Contact hours	30	1
Practical activities	60	2