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STUDY MODULE DESCRIPTION FORM				
Name of the module/subject Geotechnical Training	-	ode 010101141010120301		
Field of study	Profile of study (general academic, practical)	Year /Semester		
Civil Engineering First-cycle Studies	general academic	2/4		
Elective path/specialty	Subject offered in:	Course (compulsory, elective)		
-	Polish	obligatory		
Cycle of study:	Form of study (full-time,part-time)			
First-cycle studies	full-time			
No. of hours		No. of credits		
Lecture: - Classes: 90 Laboratory: -	Project/seminars:	3		
Status of the course in the study program (Basic, major, other) (university-wide, from another field)				
major	n field			
Education areas and fields of science and art		ECTS distribution (number and %)		
technical sciences		3 90%		
Technical sciences		3 90%		

Responsible for subject / lecturer:

dr inż. Sławomir Janiński

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tel. 6652417

Faculty of Civil and Environmental Engineering

ul. Piotrowo 5 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

4	Knowledge	- full range of knowledge of mathematics and physisc, the program for high school		
1		- full range of knowledge covered by the program of studies 1 and 2 of semester studies at Construction		
	OL:UA	The Student:		
2	Skills	- is able to perform static analysis of bar structures statically detereminate,		
		- is able to correctly select troubleshooting tools analysis and design of buildings,		
		- can dimensions the basic structural components of buildings		
3		The Student:		
3	Social competencies	- is able to work intependently and collaborate as a team on the specific task;		
		- is responsible for the accuracy of the results of their work and their interpretation		
		- isolated complements and extends knowledge of modern techniques processes and		

Assumptions and objectives of the course:

achieve a basic level of knowledge of groundwater and soil mechanics applicable to first degree studies of construction

Study outcomes and reference to the educational results for a field of study

Knowledge:

- 1. The Student know fundamentals of groundwater expert knowledge [K_W06]
- 2. The Student know the basic laws of soilmechanic [K_W08]
- 3. The Student know methods for determining stresses in the subsoil [K_W09]

Skills:

- 1. The Studnet is able to apply the principles for classification of soil $\,$ [K_U02]
- 2. The Student is able to make interpretation of the results of laboratory testes the basic features of soil [K_U03]
- 3. The Student is able to use the basic rights of soil mechanics to determinate the stresses in the subsoil [K_U09]

Social competencies:

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- 1. The Student is aware of the need to care for their own health and fitness [K_K01]
- 2. The Student is aware of the need to improving of professional and personal of competence [K_K04]
- 3. The Student understands the need to inform the public knowledge of the construction industry, provide information to the public of construction in a commonly understood [K_K06]

Assessment methods of study outcomes

- the written examination,
- the written and oral tests as part of the continuous assessment,
- the execution of a handbook of results of calculations of laboratory characteristics of the subsoil

Course description

- introduction to groundwater expert knowledge

Basic bibliography:

- 1. PN-EN ISO 14688-1:2008. Badania geotechniczne. Część I
- 2. PN-EN ISO 14688-1:2008. Badania geotechniczne. Część 1
- 3. PN-EN ISO 14688-2:2009. Badania geotechniczne. Część 2
- 4. PN-EN 1997-1:2008. Projektowanie geotechniczne. Część 1
- 5. PN-EN 1997-2:2009. Projektowanie geotechniczne. Część 2
- 6. Puła O. Projektowanie fundamentów bezpośrednich według Eurokodu 7. Wyd. 2. DWE., Wrocław 2012

Additional bibliography:

- 1. Jeż J.: Biogeotechnika, Poznań, Wyd.PP 2008
- 2. Jeż J.: Biogeotechnika, Poznań, Wyd. PP 2008
- 3. Motak E.: Fundamenty bezpośrednie, Warszawa, Arkady 1988
- 4. Obrycki M., Pisarczyk St.: Zbiór zadań zmechaniki gruntów, Warszawa, PW 2007

Result of average student's workload

Activity	Time (working hours)				
1. The total amount of work		90			
Student's workload					
Source of workload	hours	ECTS			
Total workload	90	3			
Contact hours	90	3			
Practical activities	90	3			