		STUDY MODULE D	ESCRIPTION FORM			
	f the module/subject Mechanics		Code 1010104131010100637			
Field of study Civil Engineering First-cycle Studies			Profile of study (general academic, practical) (brak)	Year /Semester		
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle o	f study:		Form of study (full-time,part-time)			
	First-cyc	cle studies	part-time			
No. of h				No. of credits		
Lectu	re: 12 Classes	s: - Laboratory: 20	Project/seminars:	- 5		
Status of	of the course in the study	program (Basic, major, other)	(university-wide, from another f	field)		
		(brak)		(brak)		
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
techr	nical sciences			5 100%		
•	onsible for subj					
ema tel. Fac	/lichalina Flieger-Szyn ail: michalina.flieger-sz 61 6652136 ulty of Civil and Envirc Piotrowo 5 60-965 Poz	zymanska@put.poznan.pl onmental Engineering				
Prere	equisites in term	s of knowledge, skills an	d social competencies:			
1	Knowledge	The full range of knowledge in mathematics and physics included in the program of high school.				
		The full range of knowledge included in the first and second semester of civil engineering studies.				
2	Skills	Student:				
2		- can perform static analysis of bar structures statically detereminate;				
		- can correctly select the tools to solve problems of analysis and design building objects;				
		- knows how to dimension the basic structural elements in buildings.				
3	Social competencies	Student:				
		- can work independently and work together as a team over the designated task;				
		- he is responsible for the accuracy of the results of their work and their interpretation;				
	-	- isolated complements and extends the knowledge in modern techniques,processes and technologies.				
Assu	mptions and obj	ectives of the course:				
Achiev	ing the basic level of l	knowledge in soil mechanics, prop	er for I degree studies of civil e	engineering.		
Know	-	mes and reference to the	educational results for	a field of study		
	vledge:	and the law and the	and EN standards of the t	al acceditions of a local P		
constru	uction - [K_W06]	o construction law, national norms				
		tals, soil mechanisc and foundation				
		e design and analysis of residentia	i, industraial, road,railroad and	bridge structures - [K_W09]		
Skills	3:					
1. Can	evaluate and list load	s acting on structures - [K_U02]				
		computional models used for the s				
3. Can	carry out simple labor es - [K_U13]	ratory experiments in order to eval	luate the quality of construction	materials and engineering		
	al competencies:	1				

1. Can work on a problem i	individually and in a team - [K_K01]
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2. Is aware of own health and fitness - $\left[\text{K}_{\text{K}}\text{K}\text{O4}\right]$

3. Is aware of the necessity to advance professional and personal competencies - [K_K06]

Assessment methods of	f study outcomes	
- written exam (30 points available, 17 points required to pass the example.	(am)	
- written and oral tests as part of continuous assessment		
- execution of the development of containing of interpreting results la	aboratory tests characteristics of	subsoil
- execution of the development of containing the results of calculation	ns of stress in the subsoil	
Course descr	iption	
- introduction to geotechnics		
- genesis of the soil		
- geotechnical characteristics of the soil		
- classification of ground in according to with the content of PN and I	PN-EN	
- physical characteristics of the soil		
- water in a subsoil		
- strength of the soil		
- compressibility and consolidation of the soil		
- geostatic stresses in the subsoil		
- stress from external loads in the subsoil		
- bearing capacity of the subsoil		
Lectures are conducted using the information lecture method. Labor practice methods.	atory exercises are conducted u	ising the laboratory and
Basic bibliography:		
1. Wiłun Z.: Zarys geotechniki, Warszawa, WKiŁ 2012		
2. Pisarczyk St.: Gruntozawstwo inżynierskie, Warszawa, PWN 200	1	
3. Szymański A.: Mechanika Gruntów, SGGW, Warszawa 2007		
Additional bibliography:		
1. Jeż J.: Biogeotechnika, Poznań, Wyd. PP 2008		
2. Motak E.: Fundamenty bezpośrednie, Warszawa, Arkady 1988		
3. Obrycki M., Pisarczyk St.: Zbiór zadań z mechaniki gruntów, Wars	szawa, PW 2007	
Result of average stud	lent's workload	
Activity	Time (working	
1 participation in classes and individual work	hours)	
1. participation in classes and individual work		150
Student's wo	rkload	
Source of workload	hours	ECTS
Total workload	150	5
Contact hours	90	3
Practical activities	60	2