		STUDY MODULE D	ESCRIPTION FORM	
	f the module/subject Mechanics			Code 1010101131010120637
Field of	,		Profile of study (general academic, practical)	
	Engineering Fir	st-cycle Studies	(brak)	2/3
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	full-time	
No. of h	ours			No. of credits
Lectur	re: 15 Classes	- 5		
Status o		program (Basic, major, other) (brak)	(university-wide, from another f	^{ield)} (brak)
Educati	on areas and fields of sci	ECTS distribution (number and %)		
technical sciences				5 100%
Resp	onsible for subj	ect / lecturer:		
ema tel.	nž. Sławomir Janiński ail: slawomir.janinski@ 6652417 dział Budownictwa i In			
ul. F	Piotrowo 5 60-965 Poz	rnań		
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 covered by the program semseter 1 and 2 studies in building bonstruction.		
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:	and to moth as the second s	de Anna de Alto d
		- 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.		
	• •	ectives of the course:		
Achiev	ing basic level of know	vledge of soil mechanics, respons	ible for I degree studies in build	ling construction.
		mes and reference to the	educational results for	a field of study
Knov	vledge:			
1. Is ad [K_W0		ction law, national norms and EN	standards and technical condit	ionsfor astructure construction
	• •	tals,soil mechanisc and foundatio	-	-
		design and analysis of residentia	l, industraial, road,railroad and	bridge structures - [K_W09]
Skills	5:			
1. Can	evaluate and list load	s acting on structures - [K_U02]		
2. Can	appropriately define of	computional models used for the s	tructur analysis - [K_U03]	
	carry out simple labor es - [K_U13]	ratory experiments in order to eva	luate the quality of construction	materials and engineering
Socia	al competencies:			

- 1. Can work on a problem individually and in a team [K_K01]
- 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 (5 qustions, 25 points available, 13 points required to	pass the exam)			
- written and oral tests as partof continuons 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 calculatio	ns of stress in the subsolil			
Course descr	iption			
- accesc to geotechnics				
- gentic of ground				
- geotechnical characteristics of ground				
- classification of ground in accorodance with the contetnt of PN and PN-EN				
- physical characteristics of ground- water in the subsolil				
- strength of the subsoil				
- compressibility and consolidation of ground				
- geostatics stresses in the subsoil				
- stress from external loads in subsoil				
- bearing capacity of subsoil				
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, War	szawa, PW 2007			
Result of average stud	lent's workload			
Activity	Time (working 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		