		STUDY MODULE D	ESCRIPTION FORM	
	f the module/subject mechanics			Code 1010101131010120637
Field of study Civil Engineering First-cycle Studies Elective path/specialty			Profile of study (general academic, practical) general academic Subject offered in:	Year /Semester 2/3 Course (compulsory, elective)
Cycle o	f study:	-	Polish Form of study (full-time,part-time)	obligatory
Cycle of study: First-cycle studies			full-time	
No. of h Lectur Status o	re: 15 Classes	s: - Laboratory: 30 program (Basic, major, other) other	(university-wide, from another fi	No. of credits 5 eld) rsity-wide
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)
techr	nical sciences			5 100%
	Technical scie	ences		5 100%
dr ir ema	onsible for subje nž. Sławomir Janiński ail: slawomir.janinski@ 6652417			
ul. F	ulty of Civil and Enviro Piotrowo 5 60-965 Poz	nań	d social competencies:	
1	Knowledge	 Is of knowledge, skills and social competencies: full range of knowledge of mathematics and physisc, the program for high school full range of knowledge covered by the program of studies 1 and 2 of semester studies at Construction 		
2	Skills	The Student: - 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 Assu	Social competencies mptions and obj	 - can dimensions the basic structural components of buildings The Student: - 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 tehnology jectives of the course: 		
achiev	e a basic level of knov	vledge of groundwater and soil me	echanics applicable to first degre	ee studies of construction
	Study outco	mes and reference to the	educational results for	a field of study
Knov	vledge:			
2. The	Student know the bas	entals of groundwater expert know ic laws of soilmechanic - [K_W08] Is for determining stresses in the s		
Skills				
1. The 2. The 3. The	Studnet is able to app Student is able to mal	bly the principles for classification of the results of la the basic rights of soil mechanics	aboratory testes the basic featur	

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. Wiłun Z., Zarys geotechniki, Warszawa, WKiŁ 2012

- 2. Pisarczyk St., Gruntoznawstwo inżynierskie, Warszawa, PWN 2001
- 3. Szymański A., Mechanika Gruntów, Warszawa, SGGW 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, Warszawa, PW 2007

Result of average student's workload

Activity	Time (working hours)			
1. The total amount of work	150			
Student's workload				
Source of workload	hours	ECTS		
Total workload	125	5		
Contact hours	90	3		
Practical activities	60	2		