		STUDY MODULE DE	ESCRIPTION FORM			
Name of the module/subject Preparation for research			Code 1010135241010108606			
Field of study Enviromental Engineering Extramural Second-			Profile of study (general academic, practical) - (brak)	Year /Semester		
Elective path/specialty Water Suply, Water Soil Protection			Subject offered in: Polish	Course (compulsory, elective) obligatory		
Cycle o			Form of study (full-time,part-time)			
Second-cycle studies			part-time			
No. of h	ours			No. of credits		
Lectu		s: 10 Laboratory: -	Project/seminars:	- 16		
Status of		program (Basic, major, other)	(university-wide, from another f	ield)		
	-	(brak)				
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)		
techr	nical sciences			16 100%		
	Technical scie	ences		16 100%		
	. comica sol					
Resp	onsible for subje	ect / lecturer:				
-	-					
ema tel.	dr hab. inż. Małgorzata Basińska email: malgorzata.basinska@put.poznan.pl tel. (61) 647 5824					
	ulty of Civil and Enviro Piotrowo 5 60-965 Poz					
Prere	quisites in term	s of knowledge, skills and	d social competencies:			
1	Knowledge	Basic knowledge (engineering level) - obtained within the scope of the subjects taught and the part-time degree in Environmental Engineering.				
2	Skills	The skills acquired in the course of time studies degree - design, construction and operation of installations in buildings and external networks in the field of environmental engineering.				
3	Social competencies	Ability to work independently.				
Assu	•	ectives of the course:				
Preparing students to carry out the master thesis.						
	Study outco	mes and reference to the	educational results for	a field of study		
Knov	/ledge:					
		edge gained in the current process n the subject of the thesis (individu				
	student has knowledg e promoter and individ	e of the methods of solving techni lual work) - [K_W07]	cal problems problems (obtain	ed on individual consultations		
Skills	1					
draw c		nulate the thesis work, select and a is of the collected material probler _U14]				
2. Student use of information technology, Internet resources and other sources to find the information necessary for the preparation of a thesis problems (obtained on individual consultations with the promoter and individual work) - [K_U01, K_U07]						
Social competencies:						
1. The student is aware the need to raise professional competence problems (obtained on individual consultations with the promoter and individual work) - [K_K01]						
	lent is able to draw co e promoter and individ	nclusions and describe the results lual work) - [K_K04]	of their own problems (obtaine	ed on individual consultations		
	3. Student complements and extends knowledge of modern techniques, processes and technologies in environmental engineering problems (obtained on individual consultations with the promoter and individual work) - [K_K01, K_K07]					

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Assessment methods of	study outcomes	
Consultations - checking progress, factual correctness, the degree o	f progress of the thesis.	
The evaluation of the thesis supervisor issues.		
Positive mark - fulfilling the requirements of diploma thesis.		
(study outcomes: W3,W4,W7,U1,U7,U12,14,K1,K4,K7)		
Course descri	ption	
Course description:		
Program content compatible with the tasks detailed in the tab thesis t	opic.	
Method of education:		
classic, case study.		
Basic bibliography:		
1. Technical Books in line with the theme of work		
2. Polish and European technical standards and construction		
Additional bibliography:		
Result of average stude	ent's workload	
Activity		Time (working hours)
1. Direct consultation with the promoter (direct hours)		10
2. Preparation of thesis and scientific research (indywidual works)	300	
3. Preparation of the diploma thesis (practical hours)	170	
Student's wor	kload	
Source of workload	hours	ECTS
Total workload	480	16
Contact hours	10	1
Practical activities	170	15