

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject Diploma thesis preparation		Code 1010101271010130974
Field of study Environmental Engineering First-cycle Studies	Profile of study (general academic, practical) (brak)	Year /Semester 4 / 7
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) full-time	
No. of hours Lecture: - Classes: 5 Laboratory: - Project/seminars: -		No. of credits 15
Status of the course in the study program (Basic, major, other) (brak)		(university-wide, from another field) (brak)
Education areas and fields of science and art technical sciences		ECTS distribution (number and %) 15 100%
Responsible for subject / lecturer: Ph. D., Dr. Sc. Mieczysław Porowski, prof. PP email: mieczyslaw.porowski@put.poznan.pl tel. 61,665-2414 Faculty of Civil and Environmental Engineering ul. Piotrowo 5 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	The scope of the knowledge gained within the objects appearing in the full-time studies of 1st degree program.
2	Skills	The skills acquired during the full-time studies at 1st degree in design scope, construction and operation of installations in buildings and external networks in the field of environmental engineering.
3	Social competencies	The ability to work independently on a designated tasks.
Assumptions and objectives of the course: Preparing students to independent execute of the engineering thesis.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. The student has the knowledge gained in the current educational process necessary to prepare the engineering work to the extent specified in the subject of the thesis (independent work, consultation with the promoter) - [K_W03, K_W04, K_W07]		
2. The student has knowledge of the methods of solving technical problems (independent work, consultation with the promoter) - [K_W07]		
Skills:		
1. The student is able to formulate a thesis of the work, choose and apply appropriate method of solution of the problem and to draw conclusions on the basis of the collected material (independent work, consultation with the promoter) - [K_U12, K_U14]		
2. The student use of information technology, Internet resources and other sources to find the information necessary to prepare a the thesis (independent work, consultation with the promoter) - [K_U01, K_U07]		
Social competencies:		
1. The student is aware of the need for professional qualifications (consultation with the promoter) - [K_K01]		
2. The student is able to formulate conclusions and describe the results of their own work (independent work, consultation with the promoter) - [K_K04]		
3. The student complements and extends the knowledge of modern techniques, processes and technologies in environmental engineering, independetly (independent work) - [K_K01, K_K07]		

Assessment methods of study outcomes		
Ongoing consultations verifying progress, the substantive correctness and the severity of the thesis (effects: W03,W04,W07,U01,U07,U12,U14,K01,K04,K07)). The evaluation issues a promoter of the thesis.		
Course description		
The program content compatible with the tasks detailed in the engineering thesis topic card. Educational methods: problematic method, discussion		
Basic bibliography:		
1. Literatura naukowo - techniczna, normy, wytyczne, wymagania techniczne i technologiczne pozyskane przez dyplomanta zgodne z tematyką pracy dyplomowej.		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Independent work - preparation of thesis and scientific research	370	
2. Direct contact/consultation with supervisor	5	
Student's workload		
Source of workload	hours	ECTS
Total workload	375	15
Contact hours	5	0
Practical activities	375	15