_
۵
4
σ
\Box
N
0
Q
نـ
⊐
۵
₹
>
>
>
2
~
• •
Ω
₽
+
4

		STUDY MODULE DES	SCRIPTION FORM				
	of the module/subject	Code 1010101231010130660					
Field of			Profile of study	Year /Semester			
Environmental Engineering First-cycle Studies			(general academic, practica (brak)	2/3			
Elective path/specialty			Subject offered in: Polish	Course (compulsory, elective) obligatory			
Cycle o	f study:	Fo	orm of study (full-time,part-time))			
First-cycle studies			full-time				
No. of h	nours			No. of credits			
Lectu	re: 15 Classe:	s: - Laboratory: 15	Project/seminars:	- 2			
Status	of the course in the study	program (Basic, major, other)	(university-wide, from another	field)			
		(brak)		(brak)			
Educati	on areas and fields of sci	ence and art		ECTS distribution (number and %)			
techi	nical sciences			2 100%			
	Technical scie	ences		2 100%			
Responsible for subject / lecturer: dr inż. Fabian Cybichowski email: fabian.cybichowski@put.poznan.pl tel. 61 665 24 14 Wydział Budownictwa i Inżynierii Środowiska ul. Piotrowo 5 60-965 Poznań							
Prere	equisites in term	s of knowledge, skills and	social competencies	:			
1	Knowledge	Knowledge about Excel, level intere	at Excel, level intermediate.				
2	Skills	Ability to work with personal computer, including Excel.					
3	Social competencies	Awareness of the need to continually update and supplement one's knowledge and skills.					
Assu	mptions and obj	ectives of the course:					
Familiarize students with advanced Excel, in particular with the VBA addition.							
	Study outco	mes and reference to the ed	ducational results fo	r a field of study			
Knov	vledge:						
		nming skills concerning Visual Basic	- [K_W07]				
2. Student knows how to create and use macros in Excel - [K_W07]							
3. Stud	dent knows how to cre	ate and use interactive formants - [K	_W07]				
4. Students knows the basics of programming in VBA extension for Excel - [K_W07]							
Skills:							
1. Basic programming skills in Visual Basic - [K_U02, K_U07, K_U09]							
2. The student can write user functions in Excel VBA - [K_U02, K_U07, K_U09]							
3. Student is able to create forms and interactive elements in Excel spreadsheet - [K_U02, K_U07, K_U09]							
Socia	Social competencies:						

Assessment methods of study outcomes

1. The student is aware of the value of information and knowledge - [[K_K07]

Podstawowy sposób sprawdzania efektów kształcenia: w ramach wykładu sprawdzian pisemny - test wielokrotnego wyboru przeprowadzany na ostatnich zajęciach, w ramach ćwiczeń laboratoryjnych ? kolokwium na ostatnich zajęciach.

Faculty of Civil and Environmental Engineering

Course description

Basic method for checking the effects of education: (lecture) multiple choice test performed on the last class, (laboratory exercises) ability test performed on the last class.

Basic bibliography:

- 1. John Walkenbach, Excel 2013 PL. Programowanie w VBA dla bystrzaków. Wydawnictwo Helion.
- 2. John Walkenbach, Excel 2013 PL. Programowanie w VBA. Vademecum Walkenbacha. Wydawnictwo Helion.

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Lectures	15
2. Laboratory classes	15
3. Preparation for laboratory classes	10
4. Preparation for final tests	5

Student's workload

Source of workload	hours	ECTS		
Total workload	45	2		
Contact hours	30	2		
Practical activities	15	1		